

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P271272

Luminaire Tested: **XNV-AF-01-LED-U-T3R-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271272  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-T3R-7027-1200  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5863.4 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

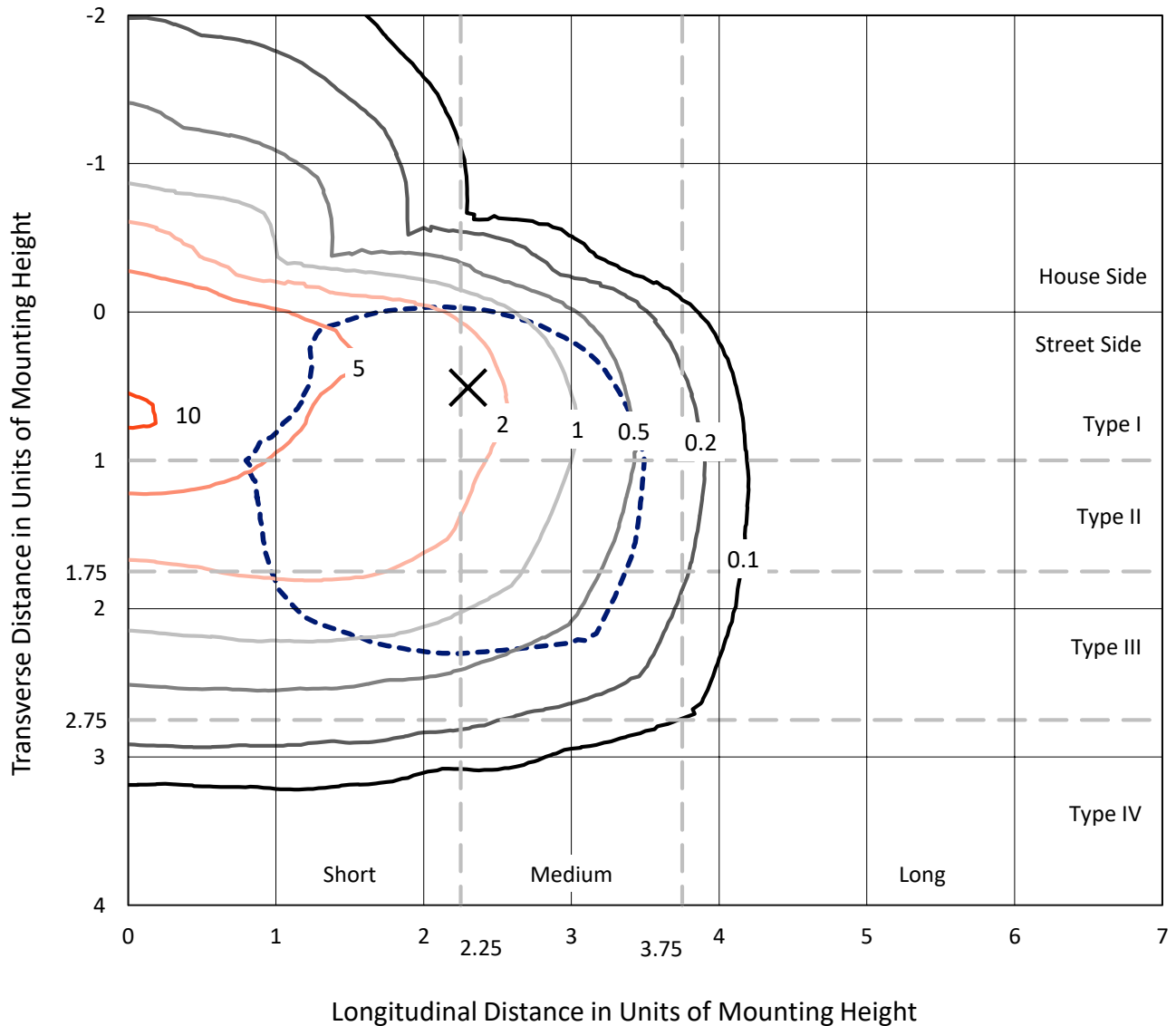


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

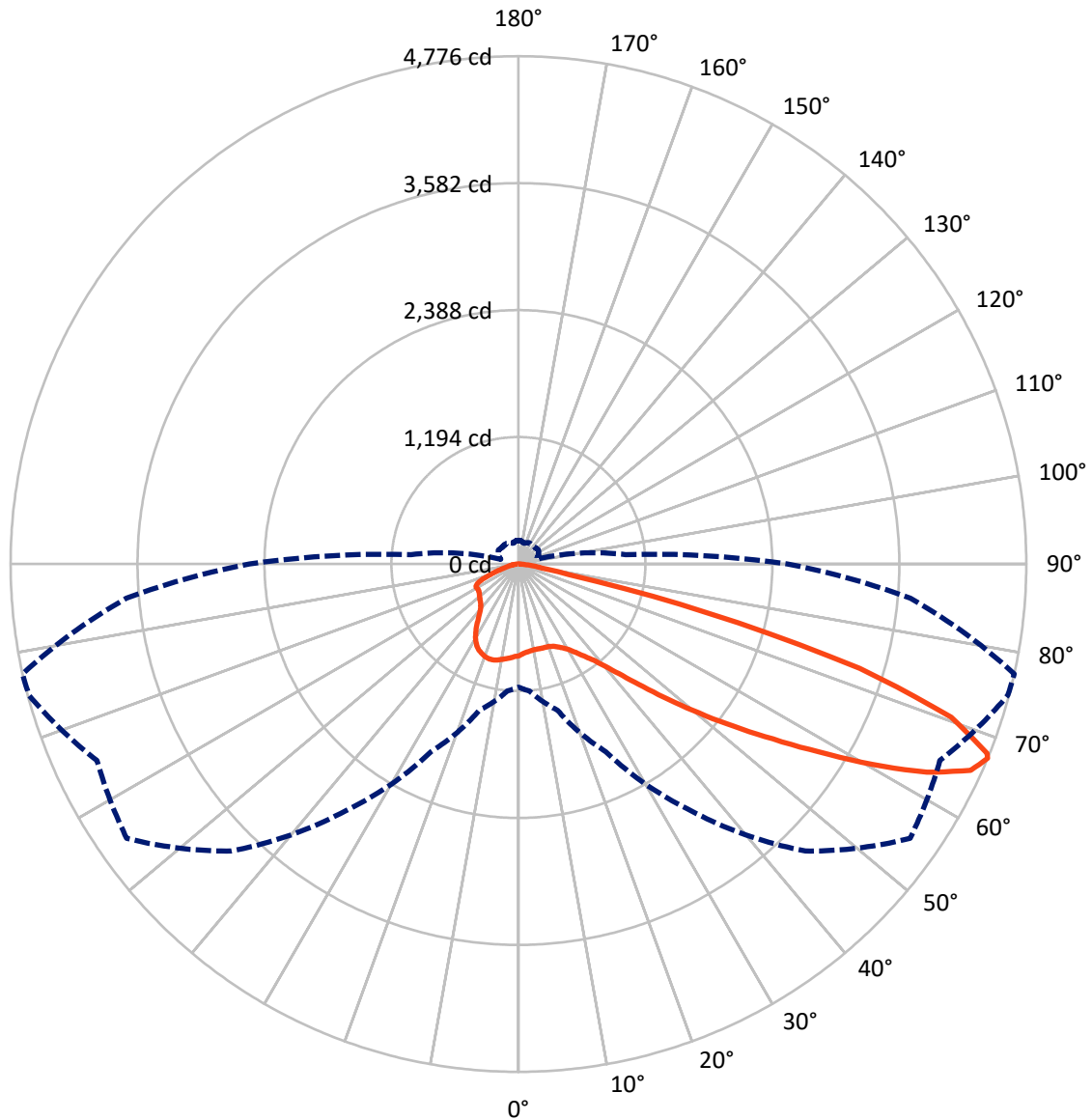


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc  
 Type III - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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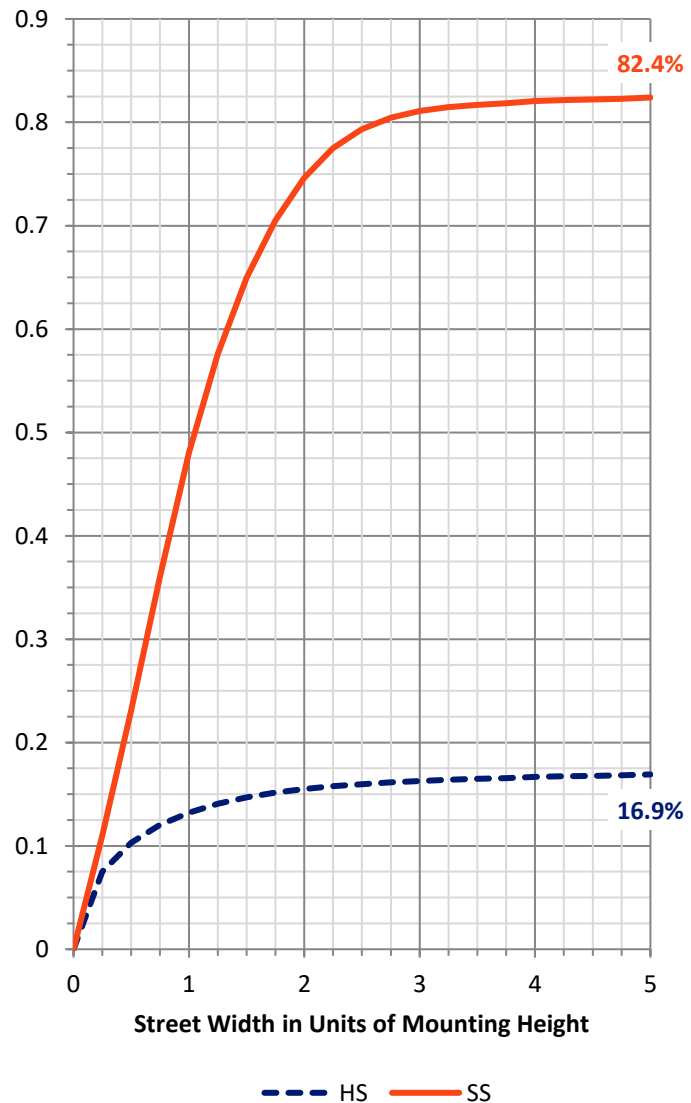
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1007.6	0.0	1007.6
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	4855.8	0.0	4855.8
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	5863.4	0.0	5863.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.9	1.3
10°-20°	212.8	3.6
20°-30°	361.6	6.2
30°-40°	578.5	9.9
40°-50°	890.7	15.2
50°-60°	1235.7	21.1
60°-70°	1648.4	28.1
70°-80°	784.5	13.4
80°-90°	74.3	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5863.4	100.0
0°-180°	5863.4	100.0

**Coefficient of Utilization**



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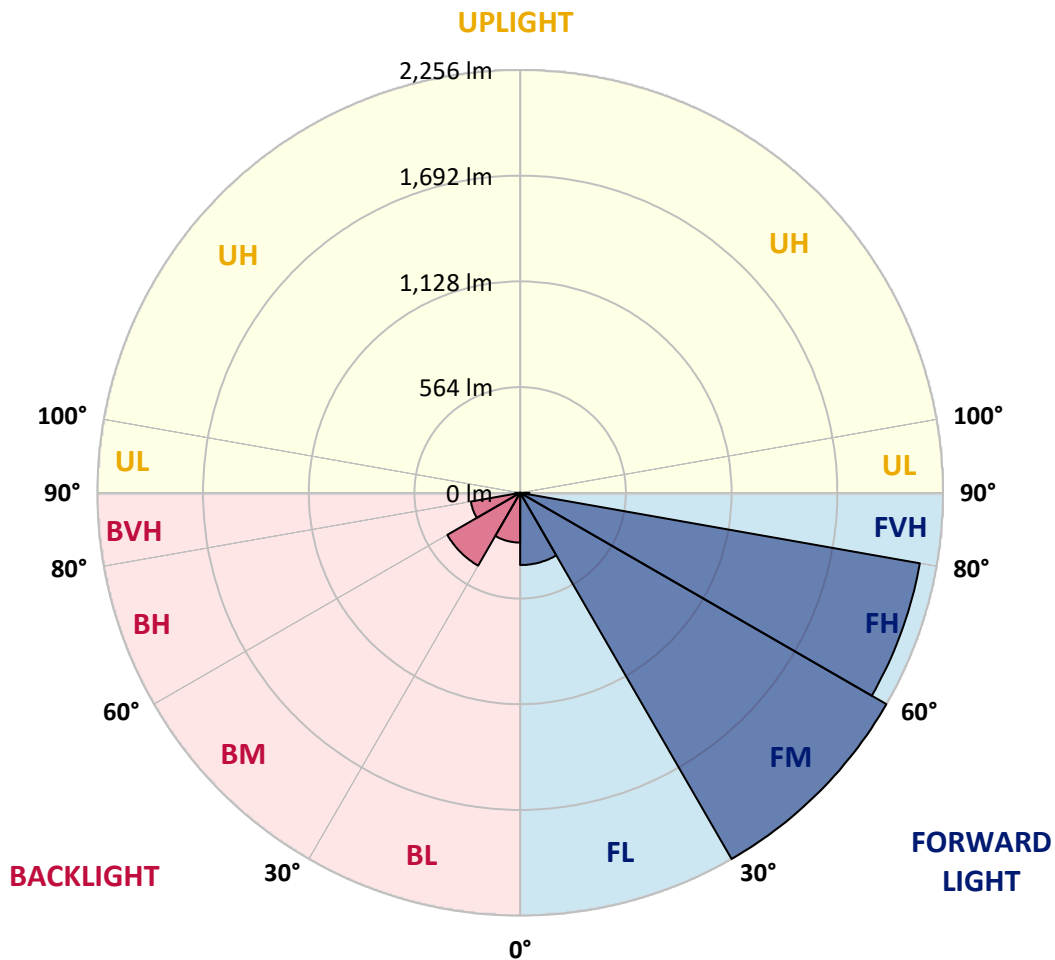
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	385.6	6.6			
FM	(30°-60°)	2256.3	38.5			
FH	(60°-80°)	2165.7	36.9			G2/5000
FVH	(80°-90°)	48.2	0.8			G1/100
BL	(0°-30°)	265.8	4.5	B1/500		
BM	(30°-60°)	448.7	7.7	B1/1000		
BH	(60°-80°)	267.2	4.6	B1/500		G1/500
BVH	(80°-90°)	26.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	862.9	862.9	862.9	862.9	862.9	862.9	862.9	862.9	862.9	862.9	862.9
2.5°	773.8	777.5	777.8	788.3	792.9	804.9	817.9	829.6	839.7	843.4	849.8
5°	696.2	696.2	697.4	704.2	717.6	736.8	764.0	793.7	824.9	832.5	851.8
7.5°	655.7	656.3	657.1	663.9	674.4	691.5	718.6	759.2	811.1	823.7	857.5
10°	659.3	658.2	654.5	653.1	657.4	668.2	691.9	733.6	799.5	819.1	868.0
12.5°	716.2	714.0	702.0	684.6	668.7	664.7	680.9	720.5	794.1	819.1	885.8
15°	813.7	815.1	791.5	755.2	713.7	685.3	683.3	715.8	792.2	821.3	906.4
17.5°	940.4	941.2	908.5	856.1	786.8	728.4	698.1	715.8	792.2	823.4	926.3
20°	1075.4	1070.2	1033.3	967.4	877.5	788.3	725.2	720.1	794.5	826.7	945.1
22.5°	1191.0	1186.2	1147.5	1078.2	975.3	859.0	761.9	734.6	806.4	840.2	971.6
25°	1292.0	1294.9	1257.3	1179.4	1072.8	938.6	816.6	768.1	831.4	864.3	1004.2
27.5°	1414.9	1409.5	1366.1	1291.8	1173.1	1021.4	885.0	810.0	861.1	893.8	1044.1
30°	1557.0	1554.4	1495.7	1419.2	1283.7	1113.7	952.8	855.4	899.9	934.0	1094.1
32.5°	1729.4	1729.1	1666.0	1572.3	1408.1	1218.1	1033.0	917.3	956.4	990.9	1160.5
35°	1924.9	1924.4	1859.2	1735.3	1551.2	1333.8	1127.2	992.6	1026.5	1062.7	1239.5
37.5°	2060.4	2058.1	2024.2	1903.8	1709.6	1468.2	1245.0	1094.1	1105.8	1146.3	1334.8
40°	2086.5	2099.5	2129.0	2057.8	1882.5	1617.5	1363.1	1203.3	1214.1	1266.3	1454.7
42.5°	2058.1	2075.3	2172.7	2192.7	2055.3	1798.3	1510.9	1354.4	1368.2	1433.1	1595.7
45°	2033.6	2048.4	2170.6	2267.3	2226.0	1995.6	1695.5	1538.8	1564.9	1645.4	1756.6
47.5°	1991.5	2005.2	2127.7	2280.7	2323.5	2185.4	1917.6	1760.7	1805.7	1903.1	1940.1
50°	1989.3	1995.6	2069.4	2235.8	2357.2	2329.7	2163.7	2020.2	2089.0	2201.3	2143.0
52.5°	1934.3	1977.3	2044.5	2164.0	2358.0	2413.7	2406.1	2304.6	2410.8	2535.1	2365.5
55°	1597.1	1646.9	1961.1	2129.0	2353.6	2485.9	2627.6	2607.3	2773.2	2904.1	2614.8
57.5°	1491.4	1512.3	1720.4	2139.5	2389.9	2605.2	2849.1	2932.3	3187.8	3330.6	2913.9
60°	1462.4	1484.4	1672.3	2144.4	2488.0	2822.2	3149.5	3299.6	3675.3	3826.9	3253.5
62.5°	1430.1	1458.8	1675.9	2149.1	2660.6	3143.3	3548.1	3697.9	4176.0	4311.1	3571.8
65°	1335.9	1374.0	1608.9	2119.6	2849.3	3546.2	4075.2	4113.2	4589.4	4675.3	3763.8
67°	1157.2	1198.9	1424.7	1947.6	2831.9	3817.7	4496.6	4372.9	4765.1	4775.7	3701.5
67.5°	1100.8	1143.8	1362.4	1876.3	2782.3	3853.3	4571.3	4408.9	4763.7	4752.2	3643.4
70°	741.1	789.7	964.8	1377.6	2231.7	3586.3	4553.1	4298.4	4451.3	4318.3	3130.2
72.5°	367.9	369.4	481.3	754.5	1352.2	2572.1	3798.3	3677.1	3608.3	3357.1	2297.1
75°	177.2	180.5	227.2	333.5	570.2	1328.0	2590.3	2481.2	2112.5	1829.2	1149.7
77.5°	135.1	138.5	176.4	217.1	237.7	433.2	1283.0	1037.0	612.1	488.9	324.0
80°	104.4	110.5	148.9	166.7	157.4	173.6	403.3	317.6	238.1	218.6	160.5
82.5°	81.6	85.2	126.5	126.5	108.8	116.3	187.7	183.3	148.0	133.4	86.2
85°	57.6	64.9	101.9	94.2	71.3	72.1	112.4	107.6	76.0	61.3	33.6
87.5°	25.7	33.0	72.6	61.7	38.1	29.4	46.1	39.4	30.1	23.1	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	862.9	862.9	862.9	862.9	862.9	862.9	862.9	862.9	862.9	862.9	862.9
2.5°	857.2	862.9	872.0	877.5	884.7	887.5	890.5	895.5	899.6	898.5	896.7
5°	865.1	874.9	886.1	889.7	889.7	886.1	883.9	884.3	883.3	882.6	880.2
7.5°	876.7	890.1	898.0	894.4	883.3	869.1	855.6	847.7	840.2	835.5	836.9
10°	893.0	907.8	908.2	892.2	865.4	834.6	808.2	791.1	774.9	767.6	769.8
12.5°	916.6	931.5	918.7	884.3	837.2	789.0	740.5	705.3	673.8	666.2	663.9
15°	942.0	953.6	925.3	867.3	796.5	717.2	635.7	583.1	548.0	541.8	539.6
17.5°	964.1	970.6	922.0	836.9	732.5	607.4	512.5	477.0	469.8	473.3	473.3
20°	983.6	981.5	907.8	789.7	631.4	485.7	430.6	430.2	440.0	449.1	449.8
22.5°	1008.3	991.2	885.4	719.8	510.6	405.1	395.8	405.1	416.1	426.2	427.4
25°	1037.6	1002.1	855.4	620.1	410.6	367.9	371.9	379.9	386.7	394.6	395.1
27.5°	1066.9	1010.5	813.0	503.1	356.3	344.0	348.4	351.5	353.4	358.5	358.5
30°	1101.1	1017.1	751.7	403.0	331.3	322.9	320.3	319.0	320.3	327.3	327.6
32.5°	1143.8	1028.6	668.0	345.8	319.6	308.1	295.1	287.7	292.8	305.2	307.3
35°	1192.4	1042.4	567.5	322.9	315.7	300.8	276.9	265.7	267.4	278.7	280.5
37.5°	1253.2	1060.1	468.6	317.6	319.6	300.0	268.6	252.7	244.7	245.0	244.7
40°	1331.2	1077.8	390.4	319.0	328.4	301.9	264.6	239.6	222.9	223.6	225.0
42.5°	1412.8	1089.5	340.6	323.3	338.9	304.4	263.2	226.9	212.4	224.7	236.0
45°	1508.1	1086.2	314.9	327.3	346.8	305.6	257.6	225.5	213.4	250.4	271.5
47.5°	1617.5	1072.0	300.5	329.0	349.0	305.2	253.7	230.1	222.5	286.6	310.6
50°	1736.3	1049.9	288.9	326.2	348.0	303.6	258.1	236.0	226.2	294.6	313.1
52.5°	1866.5	1029.6	276.9	319.6	342.6	299.3	263.6	233.4	216.0	271.5	285.7
55°	2020.5	1025.0	263.6	308.4	333.5	294.6	260.6	225.5	204.8	240.7	249.4
57.5°	2196.6	1054.3	246.0	294.6	321.1	285.2	253.7	221.2	200.9	218.8	223.6
60°	2420.3	1119.2	227.6	280.1	306.0	271.1	247.6	222.2	201.8	215.7	216.8
62.5°	2594.9	1177.5	210.9	262.3	285.7	254.1	241.0	223.3	205.2	219.9	218.2
65°	2658.4	1148.9	190.4	236.0	256.9	235.3	231.9	223.9	205.2	222.5	218.6
67°	2528.3	1012.3	170.7	209.5	229.7	218.6	223.3	221.2	201.5	222.2	215.2
67.5°	2466.2	964.1	165.6	205.2	222.5	213.4	221.2	219.6	200.4	221.4	213.4
70°	2033.9	691.5	139.9	172.1	186.3	188.0	207.7	210.3	191.7	208.0	193.6
72.5°	1447.2	432.8	120.7	133.4	150.3	160.9	189.5	197.4	180.1	180.9	168.9
75°	716.2	232.3	107.6	102.9	117.0	134.0	165.3	180.1	163.1	150.7	146.9
77.5°	241.7	131.5	91.0	83.1	91.0	107.6	137.0	157.4	143.9	127.6	125.0
80°	125.0	95.7	71.1	66.7	71.8	83.4	107.3	130.9	122.9	123.5	101.9
82.5°	78.0	58.4	51.2	50.8	54.3	63.8	79.1	106.2	105.6	90.2	65.5
85°	36.2	33.6	32.6	33.6	34.8	36.2	51.5	75.7	80.0	48.6	43.1
87.5°	15.2	14.8	13.0	14.2	15.6	15.2	20.7	32.2	44.9	30.5	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)