

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: P198894

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)  
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-SL4-7050  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5770 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

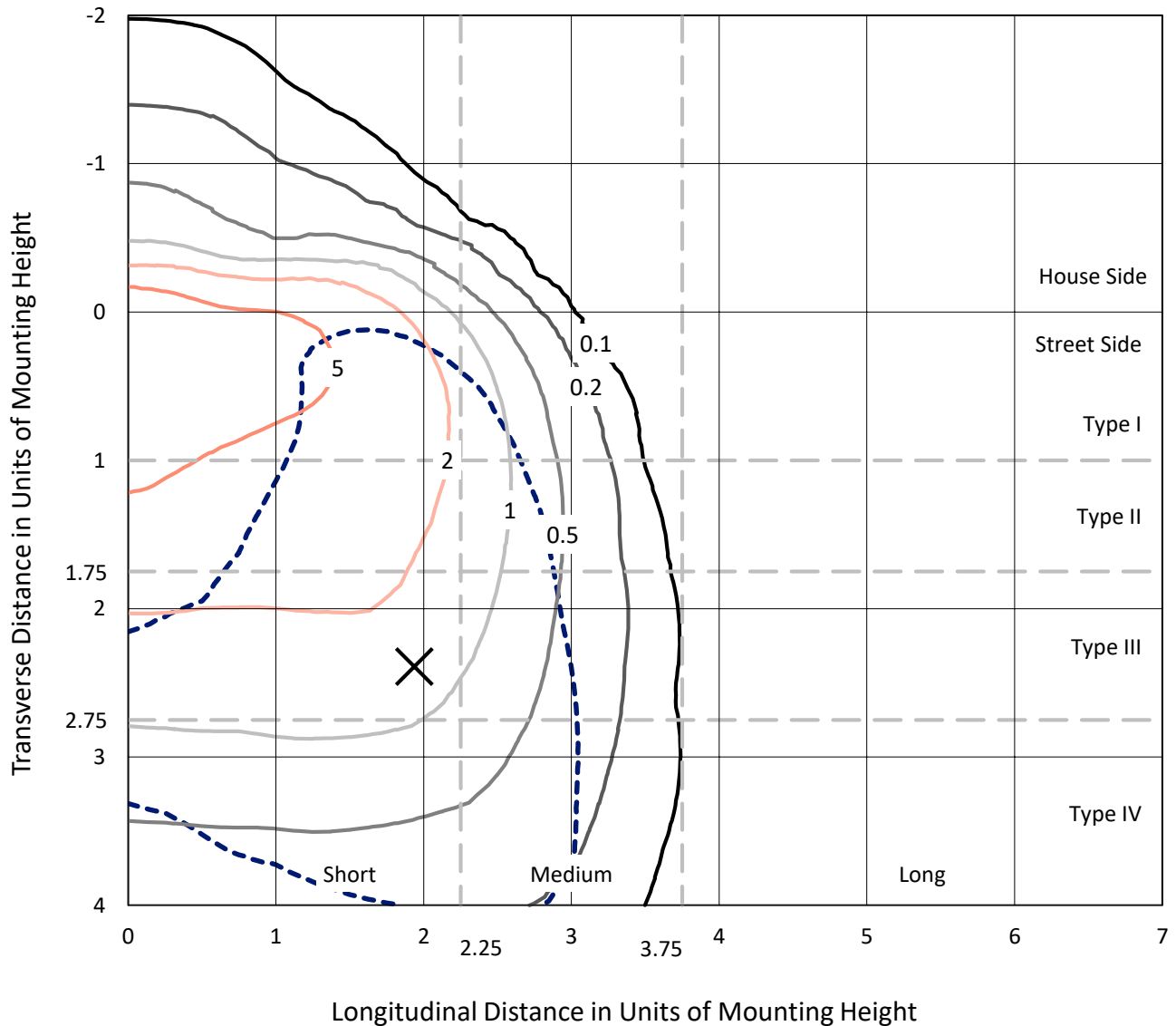
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

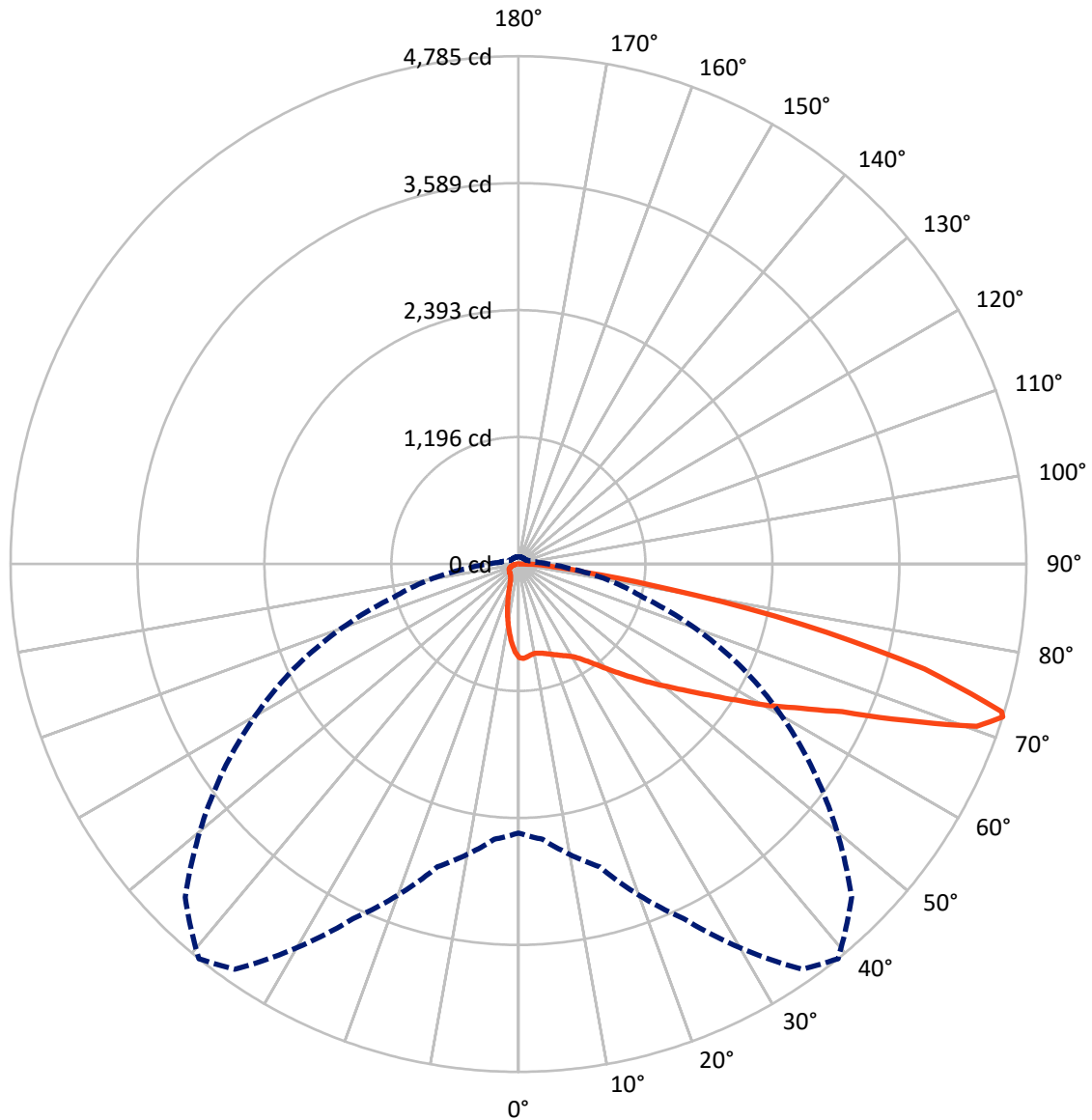


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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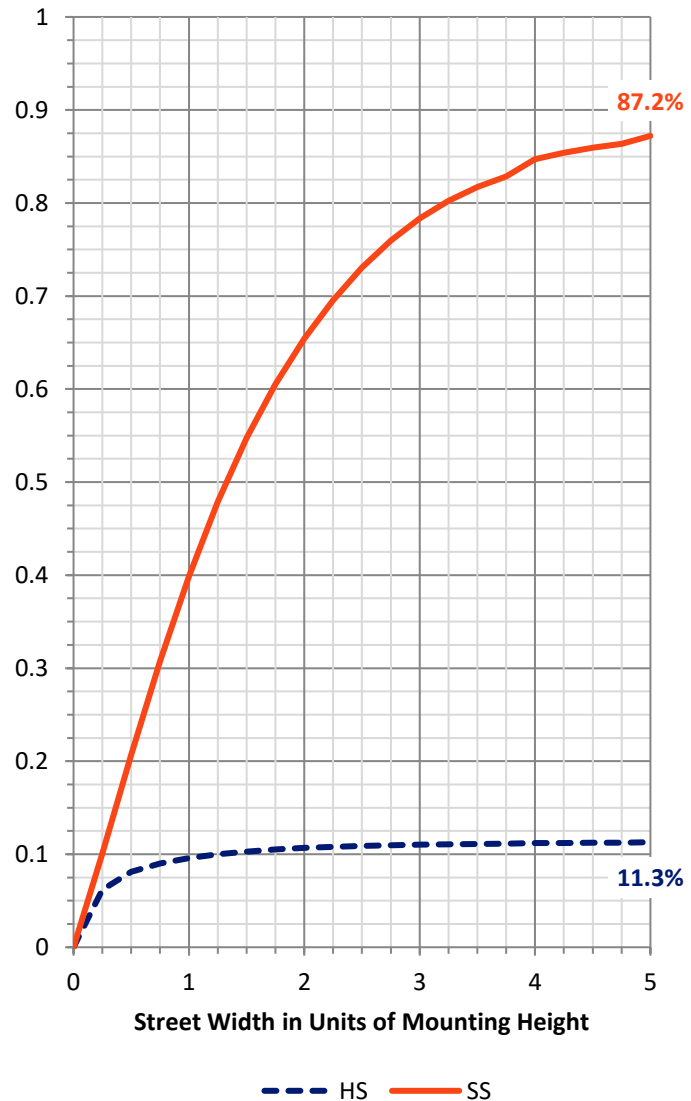
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	661.6	0.0	661.6
	% Fixture	11.5	0.0	11.5
<b>Street Side</b>	Lumens	5108.4	0.0	5108.4
	% Fixture	88.5	0.0	88.5
<b>Total</b>	Lumens	5770.0	0.0	5770.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.7	1.3
10°-20°	190.3	3.3
20°-30°	296.5	5.1
30°-40°	456.6	7.9
40°-50°	744.3	12.9
50°-60°	1156.6	20.0
60°-70°	1548.0	26.8
70°-80°	1113.3	19.3
80°-90°	188.7	3.3
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°	5770.0	100.0
0°-180°	5770.0	100.0



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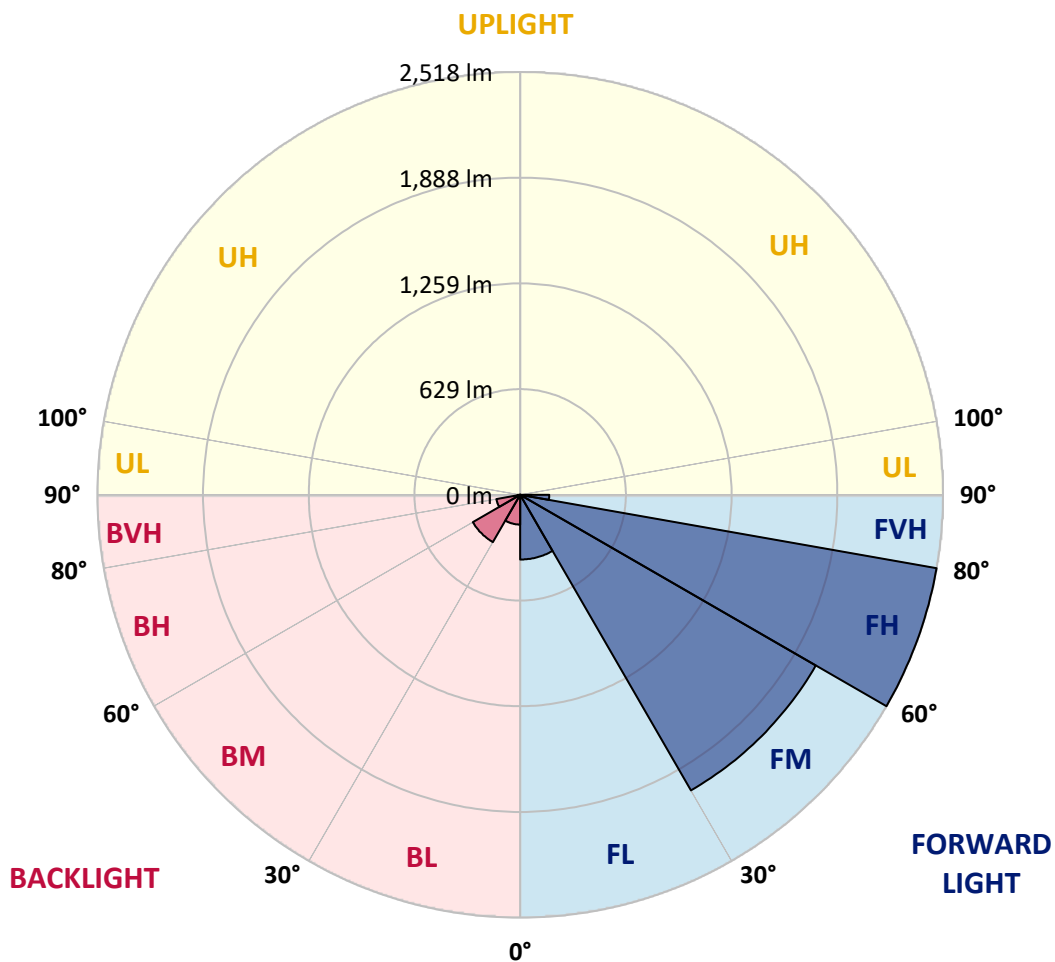
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	385.4	6.7			
FM	(30°-60°)	2032.3	35.2			
FH	(60°-80°)	2517.5	43.6			G2/5000
FVH	(80°-90°)	173.1	3.0			G2/225
BL	(0°-30°)	177.1	3.1	B1/500		
BM	(30°-60°)	325.1	5.6	B1/1000		
BH	(60°-80°)	143.7	2.5	B1/500		G1/500
BVH	(80°-90°)	15.6	0.3			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	881.2	881.2	881.2	881.2	881.2	881.2	881.2	881.2	881.2	881.2	881.2
2.5°	900.2	900.5	899.4	895.9	892.8	891.3	888.5	883.9	877.7	873.4	869.9
5°	891.6	892.8	892.0	886.2	880.8	877.7	873.4	866.9	858.7	855.2	847.1
7.5°	885.1	885.8	883.5	876.9	866.5	862.6	854.8	846.3	839.0	833.9	824.2
10°	880.4	881.2	879.2	872.7	861.0	856.4	847.1	837.8	828.1	821.9	811.1
12.5°	873.8	875.4	875.4	872.3	864.5	861.4	852.1	842.1	833.2	826.6	813.0
15°	872.7	874.6	878.1	877.7	875.4	873.0	865.7	855.6	847.9	840.1	823.5
17.5°	882.3	886.6	893.6	895.9	894.4	889.3	880.8	871.5	863.0	855.6	835.1
20°	906.7	909.1	919.5	924.2	916.4	909.1	897.8	885.8	878.1	872.3	845.9
22.5°	943.5	946.6	955.2	955.6	939.3	930.4	916.0	901.3	894.0	891.6	860.7
25°	1002.4	1001.6	1004.0	994.3	964.8	954.4	937.0	919.9	914.9	919.5	882.3
27.5°	1072.9	1071.0	1063.6	1038.4	993.9	980.3	959.4	944.3	944.3	955.2	911.8
30°	1154.3	1152.3	1128.3	1086.1	1028.4	1012.9	990.8	974.9	983.1	1004.0	951.7
32.5°	1240.2	1233.3	1199.6	1143.0	1077.6	1060.5	1039.2	1022.9	1038.4	1074.1	1009.0
35°	1321.2	1317.3	1275.9	1208.9	1141.1	1126.8	1112.0	1091.9	1116.7	1172.1	1090.0
37.5°	1404.9	1401.8	1351.0	1279.7	1218.5	1208.9	1196.5	1182.5	1222.4	1295.2	1199.6
40°	1498.2	1492.0	1428.1	1356.8	1308.8	1304.2	1297.6	1293.7	1358.0	1466.4	1338.2
42.5°	1603.9	1591.9	1509.4	1441.7	1407.2	1411.1	1407.6	1423.1	1521.4	1664.0	1503.2
45°	1724.8	1700.8	1590.4	1531.9	1516.0	1531.5	1538.9	1578.4	1714.7	1892.1	1687.6
47.5°	1837.9	1806.9	1679.1	1629.9	1638.8	1665.5	1686.4	1756.2	1926.6	2117.5	1875.9
50°	1942.1	1907.2	1774.0	1731.4	1774.8	1812.7	1856.1	1954.5	2152.0	2349.6	2048.6
52.5°	2019.2	1994.0	1868.9	1842.2	1930.9	1981.2	2050.5	2174.9	2379.8	2570.7	2202.8
55°	2078.8	2065.3	1961.5	1969.2	2107.5	2179.5	2263.6	2406.5	2620.7	2769.0	2326.7
57.5°	2147.8	2137.7	2067.2	2122.6	2326.7	2417.3	2516.5	2675.3	2850.0	2943.7	2423.9
60°	2220.6	2220.6	2184.9	2307.3	2600.9	2704.7	2803.5	2927.1	3078.5	3101.0	2463.4
62.5°	2275.6	2289.9	2302.7	2504.1	2861.2	2990.2	3098.7	3217.2	3315.2	3178.5	2370.5
65°	2355.4	2386.0	2458.0	2731.5	3183.5	3352.4	3498.8	3598.3	3506.9	3116.9	2067.2
67.5°	2492.5	2537.8	2691.2	3070.0	3677.0	3929.9	4072.0	3900.1	3469.3	2729.1	1583.4
70°	2616.0	2680.0	2942.2	3499.6	4318.4	4581.0	4515.5	3829.9	3021.6	2000.6	974.1
72°	2533.9	2603.7	2953.8	3686.6	4661.2	4785.1	4440.0	3394.2	2334.8	1220.9	480.3
72.5°	2480.1	2552.5	2916.2	3682.0	4670.5	4759.2	4335.0	3221.1	2119.5	1068.3	388.5
75°	2071.8	2133.8	2507.6	3263.3	4115.8	3953.1	3383.0	2084.6	974.1	345.1	199.9
77.5°	1353.0	1400.2	1729.1	2260.9	2882.9	2726.4	2059.1	976.1	365.3	209.5	150.3
80°	679.8	713.5	925.3	1188.7	1555.9	1431.6	950.5	472.2	244.4	151.4	118.1
82.5°	472.9	503.9	637.2	607.0	650.3	629.4	447.0	393.9	182.8	95.7	62.0
85°	396.6	428.8	527.2	432.7	354.0	322.6	320.3	372.2	120.8	47.3	52.3
87.5°	345.9	394.7	435.0	316.1	242.9	214.2	235.9	341.2	38.3	26.0	15.9
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°	881.2	881.2	881.2	881.2	881.2	881.2	881.2	881.2	881.2	881.2	881.2
2.5°	864.1	863.0	857.2	848.3	841.7	837.4	829.3	828.9	829.7	822.7	825.4
5°	839.7	835.1	820.0	799.5	782.8	766.9	749.5	743.7	738.6	728.2	729.3
7.5°	814.2	806.0	779.7	746.0	713.9	684.4	655.4	641.0	630.2	616.6	616.6
10°	799.1	786.3	746.0	696.8	645.7	602.7	559.3	533.4	514.4	496.9	495.8
12.5°	798.3	778.9	722.8	655.0	584.9	524.4	465.2	425.3	397.0	376.5	374.6
15°	804.5	777.4	703.4	615.9	527.5	448.9	375.7	325.0	289.0	266.1	263.8
17.5°	809.9	775.4	682.5	574.8	471.8	376.1	294.8	242.1	208.0	189.4	187.5
20°	814.9	771.2	655.8	531.4	410.2	307.9	230.5	187.9	165.4	154.9	153.8
22.5°	822.3	767.3	627.9	482.6	349.8	250.6	190.2	159.6	147.6	142.5	141.8
25°	834.3	767.7	600.8	432.7	294.4	208.8	164.6	145.6	139.1	135.6	135.6
27.5°	851.7	772.3	574.0	381.9	247.5	180.1	149.5	138.3	134.0	131.3	130.5
30°	877.3	780.9	545.8	333.9	210.3	160.4	140.6	133.6	130.1	127.8	127.4
32.5°	914.5	796.0	515.9	290.1	182.0	146.4	134.0	129.8	127.0	125.1	124.7
35°	969.9	822.7	486.9	252.9	161.9	136.3	128.6	125.1	123.6	122.8	122.4
37.5°	1051.2	865.7	459.4	223.9	148.7	129.8	123.2	121.2	120.5	120.5	120.5
40°	1153.5	922.2	434.6	203.3	141.4	124.7	119.3	117.7	117.7	118.1	118.1
42.5°	1277.8	993.1	413.3	189.4	137.1	121.2	116.6	115.8	115.4	115.4	115.8
45°	1422.3	1076.8	400.1	178.6	134.0	119.3	114.7	114.3	112.7	111.9	111.9
47.5°	1567.5	1166.3	399.3	172.4	130.1	117.0	112.7	112.7	109.6	108.1	108.5
50°	1703.1	1246.4	407.9	170.8	127.8	113.5	110.8	111.2	106.9	105.0	104.6
52.5°	1812.3	1307.6	418.3	172.8	127.8	110.4	107.3	109.2	104.6	102.3	101.9
55°	1896.8	1350.2	422.2	177.0	129.4	107.7	104.2	107.3	103.8	100.7	100.7
57.5°	1957.2	1363.8	405.5	178.9	131.7	107.3	101.1	106.9	105.0	101.1	101.1
60°	1935.1	1285.2	343.6	171.6	131.3	106.5	98.8	107.7	108.8	104.6	104.6
62.5°	1762.8	1075.2	275.8	154.9	124.7	103.8	96.1	106.9	111.6	110.0	109.2
65°	1435.1	788.6	213.8	135.2	113.5	98.0	90.2	99.9	105.4	106.9	107.3
67.5°	1011.3	499.3	166.2	115.0	99.5	89.5	83.7	88.3	90.2	91.0	92.6
70°	553.1	270.4	132.1	96.8	85.2	81.0	76.7	77.1	76.3	75.5	76.3
72°	277.7	176.6	111.6	84.1	75.5	72.8	70.9	69.7	69.7	68.6	68.9
72.5°	239.0	164.2	107.7	81.0	73.2	70.9	69.3	68.2	67.8	67.0	67.4
75°	159.2	130.1	89.9	67.8	62.4	60.8	61.6	60.4	60.8	60.0	60.4
77.5°	128.6	111.9	76.3	57.3	53.5	51.1	52.7	53.1	53.8	53.1	52.7
80°	107.7	95.3	63.9	47.3	44.5	42.6	43.4	46.1	46.5	44.2	43.8
82.5°	69.7	76.7	50.4	36.8	34.1	33.3	35.2	38.0	38.7	35.6	34.9
85°	58.5	61.6	36.4	25.2	22.5	21.7	25.6	28.3	30.2	27.1	26.3
87.5°	16.3	30.2	17.8	12.0	10.1	10.1	12.4	14.7	17.4	17.8	17.8
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)