

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: P199260

Luminaire Tested: **XNV-AF-01-LED-U-T3R-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199260  
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-8030-800  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4056 lumens  
Efficiency: N/A  
Efficacy: 92.2 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 - G1

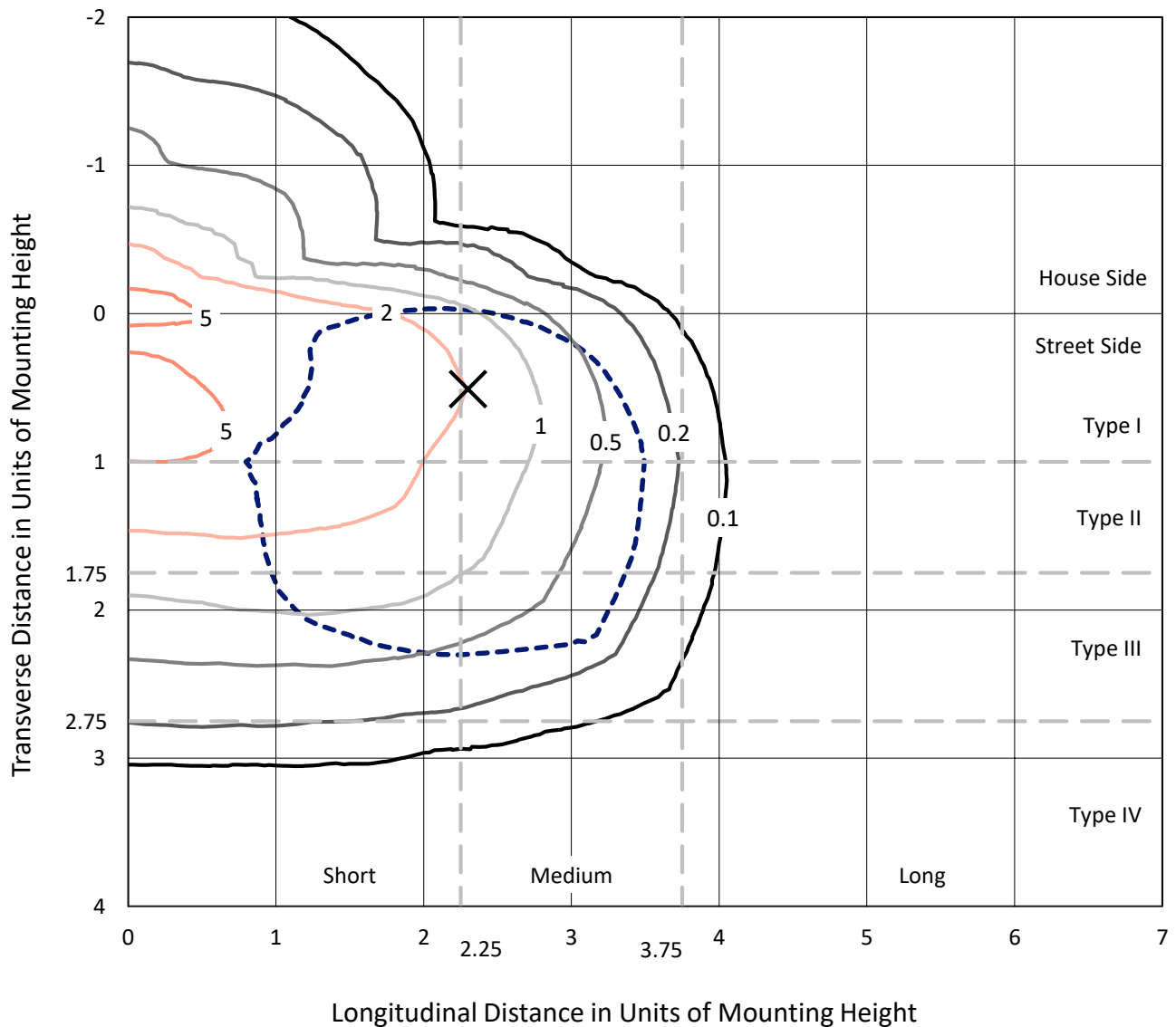
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

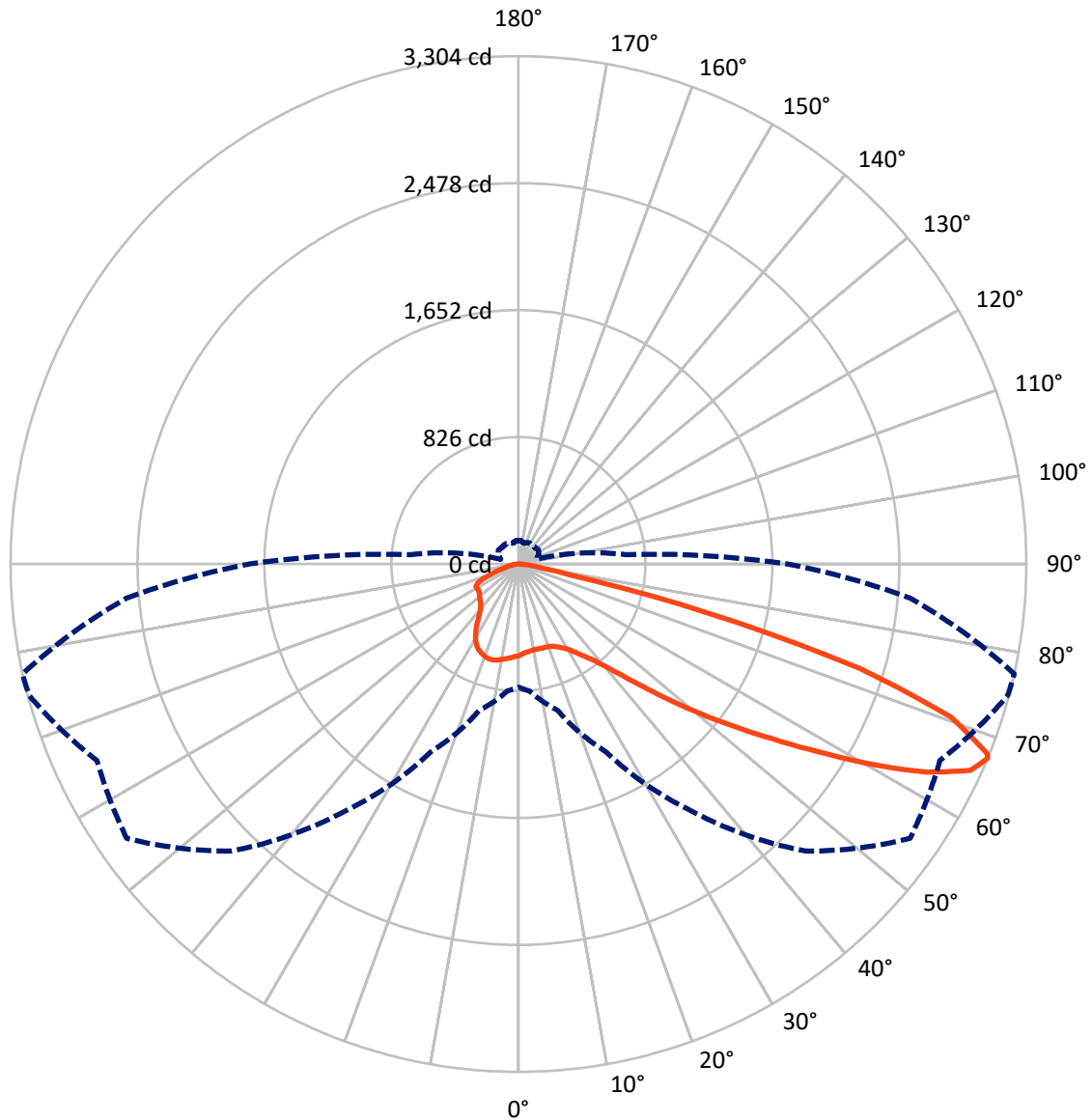
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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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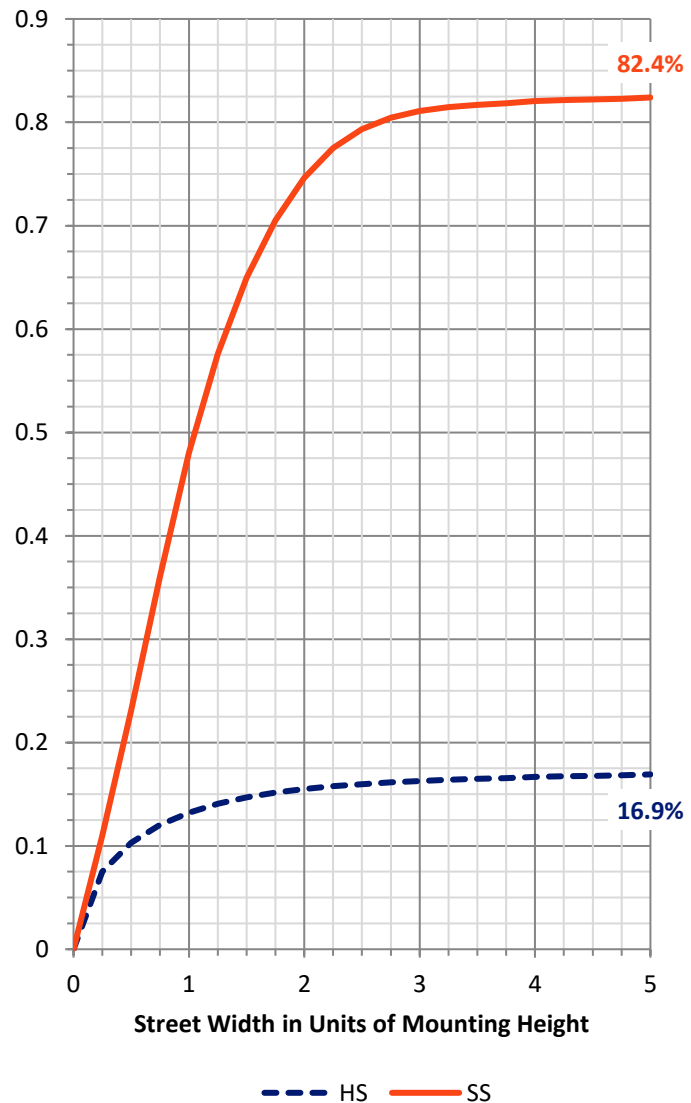
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	697.0	0.0	697.0
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	3359.0	0.0	3359.0
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	4056.0	0.0	4056.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.2	1.3
10°-20°	147.2	3.6
20°-30°	250.2	6.2
30°-40°	400.2	9.9
40°-50°	616.1	15.2
50°-60°	854.8	21.1
60°-70°	1140.3	28.1
70°-80°	542.6	13.4
80°-90°	51.4	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°	4056.0	100.0
0°-180°	4056.0	100.0



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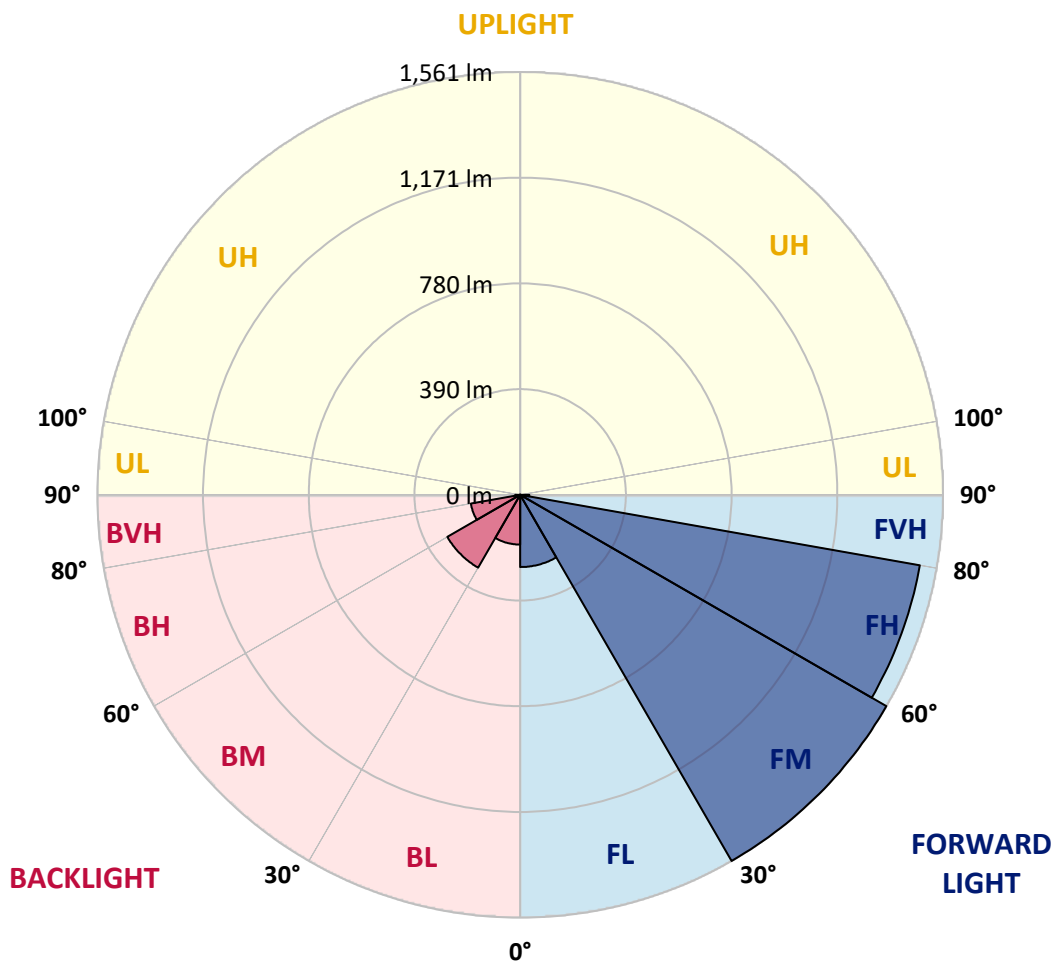
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	266.7	6.6			
FM	(30°-60°)	1560.8	38.5			
FH	(60°-80°)	1498.1	36.9			G1/1800
FVH	(80°-90°)	33.4	0.8			G1/100
BL	(0°-30°)	183.8	4.5	B1/500		
BM	(30°-60°)	310.3	7.7	B1/1000		
BH	(60°-80°)	184.8	4.6	B1/500		G1/500
BVH	(80°-90°)	18.0	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-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	535.3	537.8	538.0	545.3	548.5	556.8	565.8	573.9	580.9	583.4	587.9
5°	481.6	481.6	482.4	487.1	496.4	509.7	528.5	549.1	570.6	575.9	589.2
7.5°	453.5	454.0	454.5	459.3	466.6	478.4	497.2	525.2	561.1	569.9	593.2
10°	456.0	455.3	452.8	451.8	454.8	462.3	478.6	507.4	553.1	566.6	600.4
12.5°	495.4	493.9	485.6	473.6	462.6	459.8	471.1	498.4	549.3	566.6	612.7
15°	562.8	563.8	547.5	522.5	493.6	474.1	472.6	495.1	548.0	568.1	627.0
17.5°	650.6	651.1	628.5	592.2	544.3	503.9	482.9	495.1	548.0	569.6	640.8
20°	743.9	740.3	714.8	669.1	607.0	545.3	501.7	498.2	549.6	571.9	653.8
22.5°	823.8	820.6	793.7	745.9	674.7	594.2	527.0	508.2	557.8	581.1	672.1
25°	893.8	895.8	869.7	815.8	742.1	649.3	564.8	531.3	575.1	597.9	694.7
27.5°	978.8	975.0	944.9	893.5	811.5	706.5	612.2	560.3	595.7	618.2	722.3
30°	1077.0	1075.3	1034.7	981.8	888.0	770.4	659.1	591.7	622.5	646.1	756.9
32.5°	1196.4	1196.1	1152.5	1087.6	974.0	842.6	714.5	634.5	661.6	685.4	802.8
35°	1331.5	1331.3	1286.1	1200.4	1073.0	922.6	779.7	686.7	710.0	735.1	857.4
37.5°	1425.3	1423.8	1400.2	1317.0	1182.6	1015.6	861.2	756.9	764.9	793.0	923.4
40°	1443.3	1452.4	1472.7	1423.5	1302.2	1118.9	942.9	832.4	839.9	876.0	1006.3
42.5°	1423.8	1435.6	1503.0	1516.8	1421.8	1244.0	1045.2	936.9	946.4	991.3	1103.9
45°	1406.7	1417.0	1501.5	1568.4	1539.9	1380.4	1172.8	1064.5	1082.6	1138.2	1215.2
47.5°	1377.6	1387.2	1471.9	1577.7	1607.3	1511.8	1326.5	1217.9	1249.0	1316.5	1342.0
50°	1376.1	1380.4	1431.5	1546.6	1630.6	1611.6	1496.7	1397.4	1445.1	1522.8	1482.4
52.5°	1338.0	1367.9	1414.2	1497.0	1631.1	1669.7	1664.5	1594.3	1667.7	1753.7	1636.4
55°	1104.9	1139.2	1356.6	1472.7	1628.1	1719.6	1817.6	1803.6	1918.4	2008.9	1808.9
57.5°	1031.7	1046.2	1190.1	1479.9	1653.2	1802.1	1970.8	2028.5	2205.2	2304.0	2015.7
60°	1011.6	1026.9	1156.8	1483.4	1721.1	1952.3	2178.7	2282.4	2542.4	2647.2	2250.6
62.5°	989.3	1009.1	1159.3	1486.7	1840.5	2174.4	2454.4	2558.0	2888.7	2982.2	2470.7
65°	924.1	950.4	1112.9	1466.1	1971.1	2453.2	2819.0	2845.3	3174.7	3234.1	2603.6
67°	800.5	829.3	985.5	1347.3	1959.0	2641.0	3110.5	3025.0	3296.3	3303.6	2560.5
67.5°	761.4	791.2	942.4	1297.9	1924.7	2665.5	3162.2	3049.9	3295.3	3287.3	2520.4
70°	512.7	546.3	667.4	952.9	1543.9	2480.8	3149.6	2973.4	3079.2	2987.2	2165.4
72.5°	254.5	255.5	332.9	522.0	935.4	1779.3	2627.4	2543.7	2496.1	2322.3	1589.0
75°	122.6	124.9	157.2	230.7	394.4	918.6	1791.8	1716.3	1461.4	1265.3	795.2
77.5°	93.5	95.8	122.1	150.2	164.5	299.6	887.5	717.3	423.4	338.2	224.1
80°	72.2	76.5	103.0	115.3	108.8	120.1	279.0	219.6	164.7	151.2	111.1
82.5°	56.4	58.9	87.5	87.5	75.2	80.5	129.9	126.9	102.3	92.3	59.7
85°	39.9	44.9	70.4	65.2	49.4	49.9	77.7	74.5	52.6	42.4	23.3
87.5°	17.8	22.8	50.1	42.6	26.3	20.3	31.8	27.3	20.8	16.0	10.8
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°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	592.9	596.9	603.2	607.0	612.0	614.0	616.0	619.5	622.3	621.5	620.3
5°	598.4	605.2	613.0	615.5	615.5	613.0	611.5	611.7	611.0	610.5	609.0
7.5°	606.5	615.7	621.3	618.7	611.0	601.2	591.9	586.4	581.1	577.9	578.9
10°	617.7	628.0	628.3	617.2	598.7	577.4	559.1	547.3	536.0	531.0	532.5
12.5°	634.0	644.3	635.5	611.7	579.1	545.8	512.2	487.9	466.1	460.8	459.3
15°	651.6	659.6	640.1	599.9	551.1	496.2	439.7	403.4	379.1	374.8	373.3
17.5°	666.9	671.4	637.8	578.9	506.7	420.2	354.5	329.9	324.9	327.4	327.4
20°	680.4	678.9	628.0	546.3	436.7	335.9	297.8	297.6	304.4	310.6	311.1
22.5°	697.5	685.7	612.5	497.9	353.2	280.3	273.8	280.3	287.8	294.8	295.6
25°	717.8	693.2	591.7	429.0	284.1	254.5	257.2	262.7	267.5	273.0	273.3
27.5°	738.1	699.0	562.3	348.0	246.4	237.9	240.9	243.2	244.4	248.0	248.0
30°	761.7	703.5	520.0	278.8	229.1	223.4	221.6	220.6	221.6	226.4	226.6
32.5°	791.2	711.5	462.1	239.2	221.1	213.1	204.1	199.1	202.6	211.1	212.6
35°	824.8	721.0	392.6	223.4	218.4	208.1	191.5	183.8	185.0	192.8	194.0
37.5°	866.9	733.3	324.2	219.6	221.1	207.6	185.8	174.7	169.2	169.5	169.2
40°	920.9	745.6	270.0	220.6	227.1	208.8	183.0	165.7	154.2	154.7	155.7
42.5°	977.3	753.6	235.7	223.6	234.4	210.6	182.0	156.9	146.9	155.4	163.2
45°	1043.2	751.4	217.9	226.4	239.9	211.3	178.3	155.9	147.7	173.2	187.8
47.5°	1118.9	741.6	207.8	227.6	241.4	211.1	175.5	159.2	153.9	198.3	214.9
50°	1201.1	726.3	199.8	225.6	240.7	210.1	178.5	163.2	156.4	203.8	216.6
52.5°	1291.1	712.3	191.5	221.1	236.9	207.1	182.3	161.5	149.4	187.8	197.6
55°	1397.7	709.0	182.3	213.4	230.7	203.8	180.3	155.9	141.7	166.5	172.5
57.5°	1519.5	729.3	170.2	203.8	222.1	197.3	175.5	152.9	138.9	151.4	154.7
60°	1674.2	774.2	157.4	193.8	211.6	187.5	171.2	153.7	139.6	149.2	149.9
62.5°	1795.1	814.6	145.9	181.5	197.6	175.7	166.7	154.4	141.9	152.2	150.9
65°	1838.9	794.7	131.6	163.2	177.8	162.7	160.5	154.9	141.9	153.9	151.2
67°	1748.9	700.2	118.1	144.9	158.9	151.2	154.4	152.9	139.4	153.7	148.9
67.5°	1706.1	666.9	114.6	141.9	153.9	147.7	152.9	151.9	138.6	153.2	147.7
70°	1407.0	478.4	96.8	119.1	128.9	130.1	143.7	145.4	132.6	143.9	133.9
72.5°	1001.1	299.3	83.5	92.3	104.0	111.3	131.1	136.6	124.6	125.1	116.8
75°	495.4	160.7	74.5	71.2	81.0	92.8	114.3	124.6	112.8	104.3	101.5
77.5°	167.2	91.0	62.9	57.4	62.9	74.5	94.8	108.8	99.5	88.2	86.5
80°	86.5	66.2	49.1	46.1	49.6	57.7	74.2	90.5	85.0	85.5	70.4
82.5°	53.9	40.4	35.3	35.1	37.6	44.1	54.7	73.5	73.0	62.4	45.4
85°	25.1	23.3	22.6	23.3	24.1	25.1	35.6	52.4	55.4	33.6	29.8
87.5°	10.5	10.3	9.0	9.8	10.8	10.5	14.3	22.3	31.1	21.1	19.3
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)