

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: P198756

Luminaire Tested: **XNV-AF-01-LED-U-T2-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198756  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24136)  
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-T2-800  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4892.8 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G1

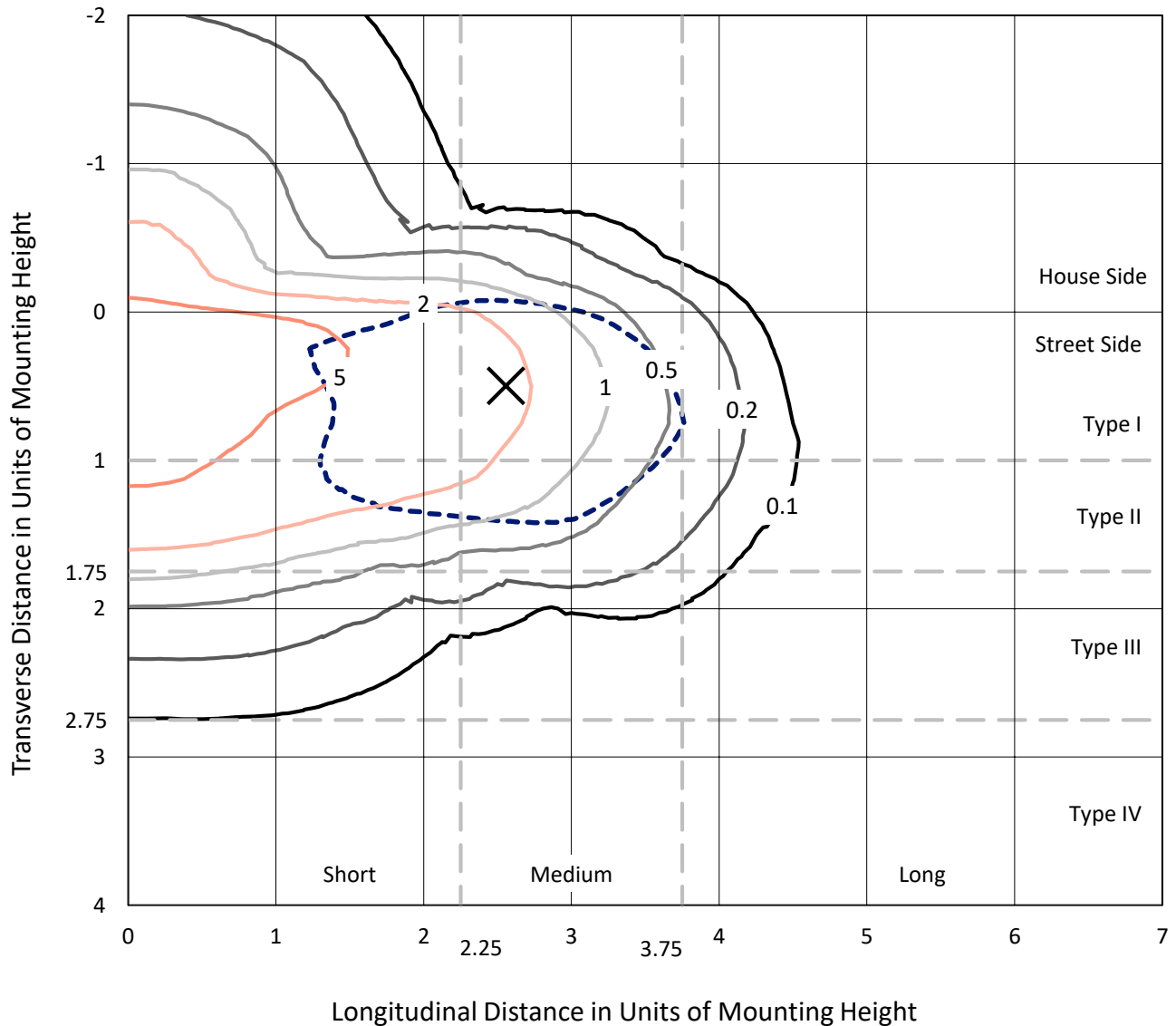
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

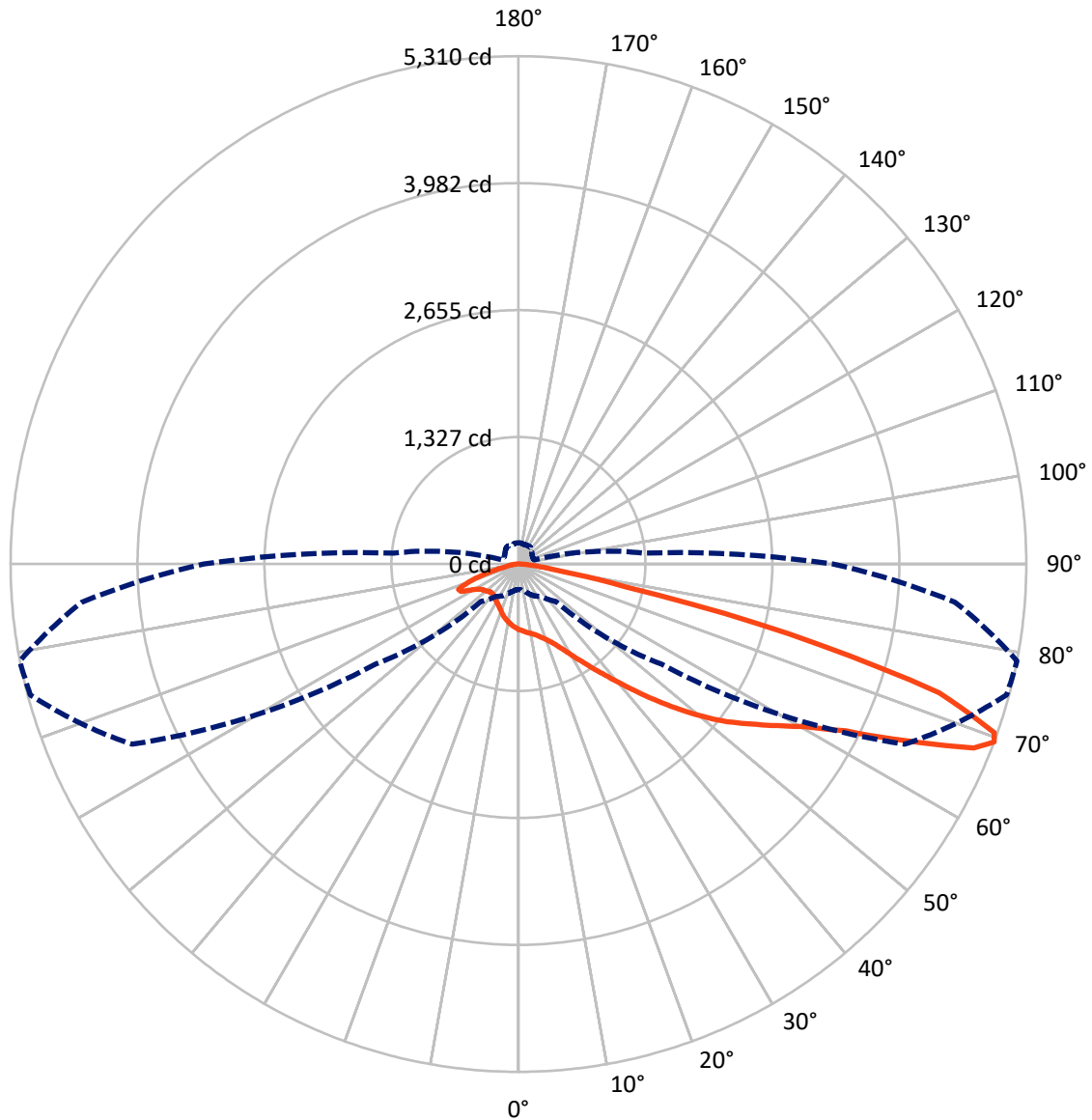


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	920.4	0.0	920.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	3972.4	0.0	3972.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	4892.8	0.0	4892.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.6	1.3
10°-20°	182.5	3.7
20°-30°	301.5	6.2
30°-40°	488.3	10.0
40°-50°	780.0	15.9
50°-60°	1117.1	22.8
60°-70°	1244.6	25.4
70°-80°	622.7	12.7
80°-90°	92.4	1.9
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°	4892.8	100.0
0°-180°	4892.8	100.0

**Coefficient of Utilization**



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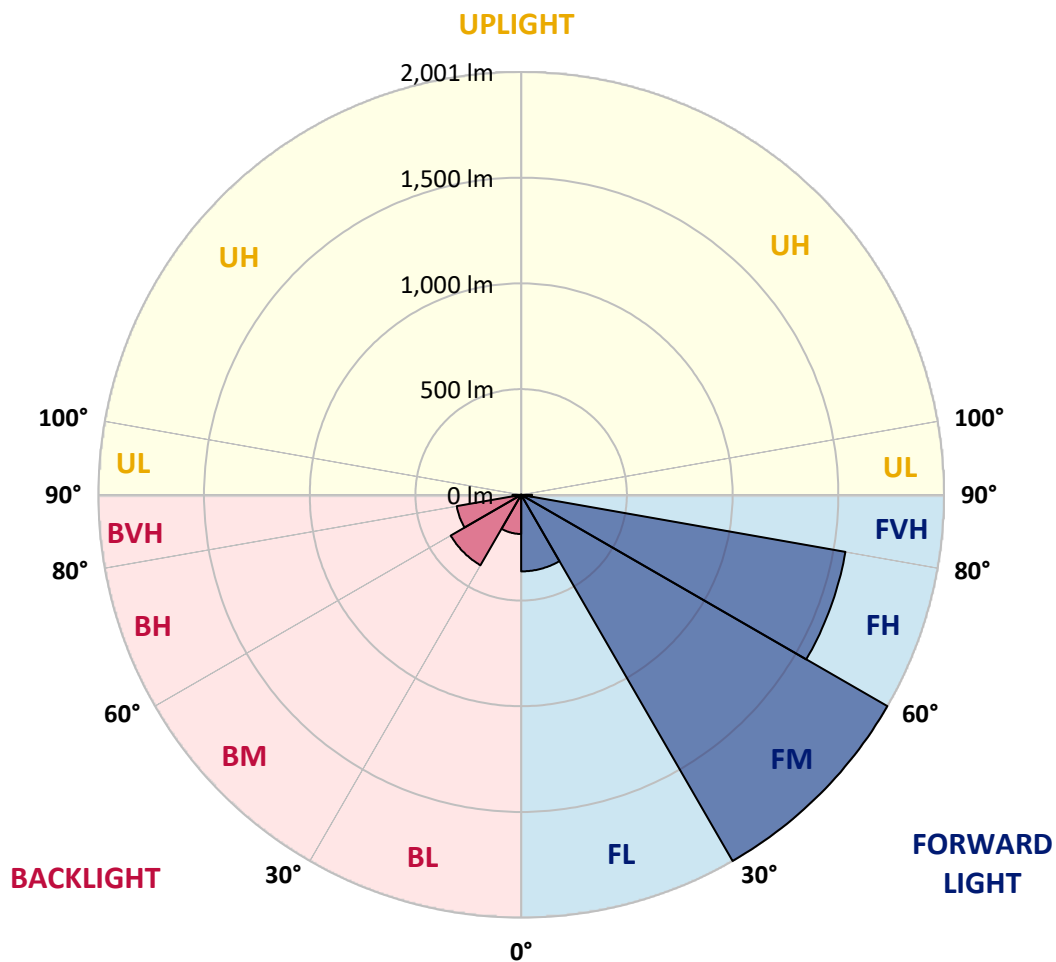
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	362.3	7.4			
FM (30°-60°)	2000.7	40.9			
FH (60°-80°)	1557.8	31.8			G1/1800
FVH (80°-90°)	51.6	1.1			G1/100
BL (0°-30°)	185.4	3.8	B1/500		
BM (30°-60°)	384.8	7.9	B1/1000		
BH (60°-80°)	309.5	6.3	B1/500		G1/500
BVH (80°-90°)	40.8	0.8			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	686.6	686.6	686.6	686.6	686.6	686.6	686.6	686.6	686.6	686.6	686.6
2.5°	753.8	752.3	751.9	747.1	744.5	739.1	726.3	713.2	701.0	694.6	687.9
5°	816.9	813.7	812.1	804.0	797.1	784.9	764.8	743.9	722.1	711.0	697.4
7.5°	855.0	855.3	855.3	848.9	841.9	827.2	801.5	773.0	740.7	726.0	704.8
10°	858.2	858.5	863.3	864.9	866.5	858.9	835.1	799.3	757.7	738.5	711.0
12.5°	826.5	828.7	836.8	848.2	864.6	872.9	862.7	827.5	779.5	756.1	722.5
15°	783.9	786.1	796.4	814.0	840.3	868.1	882.5	859.8	807.9	780.4	739.4
17.5°	763.1	765.7	772.7	786.8	812.4	849.9	893.0	894.4	841.6	809.9	759.6
20°	753.2	755.1	764.0	775.6	795.1	830.9	894.1	930.9	881.6	844.8	784.2
22.5°	775.9	776.5	781.0	787.5	800.6	828.1	893.4	968.6	931.5	888.6	815.9
25°	842.5	838.3	835.1	827.2	830.3	849.9	903.7	1008.9	995.5	946.2	858.2
27.5°	921.3	920.6	912.3	893.8	881.9	894.4	932.7	1054.0	1073.9	1019.5	913.6
30°	1008.9	1009.2	1000.7	977.9	953.9	955.1	979.2	1106.2	1167.7	1107.9	981.7
32.5°	1100.8	1106.6	1090.6	1067.9	1038.7	1029.4	1045.8	1169.3	1276.2	1212.2	1060.8
35°	1210.7	1211.6	1194.0	1160.6	1131.6	1116.9	1131.9	1248.1	1401.3	1334.8	1157.2
37.5°	1324.5	1325.2	1306.9	1264.4	1227.5	1217.9	1234.6	1343.7	1533.9	1474.4	1270.5
40°	1417.7	1424.5	1410.0	1370.0	1332.9	1327.2	1351.1	1458.3	1703.2	1639.6	1405.2
42.5°	1523.4	1531.1	1513.8	1472.1	1442.7	1440.7	1478.2	1588.9	1871.6	1830.7	1558.0
45°	1642.4	1653.3	1629.3	1582.6	1557.6	1599.9	1602.0	1733.7	2065.6	2044.5	1729.8
47.5°	1772.4	1781.4	1761.8	1711.6	1684.4	1745.5	1723.4	1890.2	2275.2	2273.6	1915.8
50°	1872.6	1882.5	1884.4	1862.3	1833.8	1841.5	1856.6	2054.7	2484.2	2509.3	2108.2
52.5°	1854.3	1863.9	1907.2	1965.1	2010.8	1991.0	2009.3	2229.5	2686.3	2739.1	2290.9
55°	1707.1	1712.2	1793.2	1930.8	2125.8	2220.5	2221.8	2419.6	2878.3	2952.2	2464.4
57.5°	1441.7	1442.4	1547.7	1750.6	2058.9	2369.4	2557.3	2658.4	3078.7	3187.8	2679.5
60°	1020.2	1022.7	1145.3	1410.6	1819.1	2351.5	2918.0	3085.7	3310.8	3452.6	2956.7
62.5°	605.6	611.4	703.9	916.8	1351.1	2121.0	3131.2	3846.0	3652.7	3840.9	3400.4
65°	394.0	398.8	454.2	561.1	798.3	1543.2	3061.1	4582.2	4299.6	4451.6	4038.0
67.5°	303.4	307.3	350.9	415.5	489.8	834.2	2447.5	4736.5	5087.0	5134.4	4576.2
69°	266.7	269.9	301.9	364.0	412.2	552.2	1823.9	4456.4	5283.8	5309.8	4582.8
70°	247.1	249.7	279.8	333.6	378.7	440.8	1395.9	4131.2	5211.8	5278.1	4450.7
72.5°	203.6	205.8	227.3	268.5	309.5	314.0	618.5	3016.6	4388.6	4600.4	3766.3
75°	170.0	171.2	185.4	215.4	250.6	250.0	315.9	1708.6	2678.0	2930.5	2325.5
77.5°	141.8	142.8	152.0	170.6	197.8	196.8	222.5	737.5	1182.4	1140.8	800.6
80°	125.2	125.8	130.6	135.4	152.7	151.7	164.9	338.7	481.1	444.6	302.8
82.5°	95.0	96.4	120.7	123.0	118.5	114.3	114.9	197.2	246.4	224.4	162.6
85°	53.8	54.1	77.4	90.6	103.1	77.4	74.6	101.8	121.6	106.6	71.1
87.5°	24.0	25.0	37.1	42.9	55.6	45.4	42.6	43.2	52.5	43.6	28.1
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°	686.6	686.6	686.6	686.6	686.6	686.6	686.6	686.6	686.6	686.6	686.6
2.5°	681.5	676.1	663.3	650.1	637.0	628.7	620.0	612.0	608.9	608.6	602.4
5°	684.4	671.6	642.4	610.4	580.0	556.3	536.4	523.6	511.2	508.9	503.5
7.5°	685.4	664.5	617.1	565.9	519.6	486.8	467.0	458.4	452.3	450.7	448.8
10°	685.0	655.6	589.0	518.8	466.1	441.4	434.0	436.0	438.5	439.8	439.8
12.5°	690.1	651.4	560.8	474.8	431.5	419.6	425.4	435.4	443.0	446.2	446.8
15°	699.4	648.9	529.8	436.3	407.1	410.0	424.1	438.5	449.4	454.2	455.5
17.5°	711.0	645.3	493.9	404.6	393.1	403.0	421.3	439.5	452.7	458.7	459.6
20°	723.7	640.2	456.7	380.9	380.6	393.1	411.3	431.8	445.9	452.7	452.3
22.5°	741.0	635.4	422.2	363.7	366.8	378.4	393.4	411.9	425.1	431.2	429.8
25°	764.0	631.0	391.2	348.3	351.2	358.9	369.4	383.5	392.7	396.0	393.7
27.5°	795.1	627.4	366.8	334.2	333.9	337.4	343.8	351.5	356.0	355.0	351.5
30°	833.2	623.9	348.9	321.7	317.2	316.9	319.8	324.3	327.1	321.4	318.5
32.5°	875.7	617.8	332.9	310.8	302.8	299.9	301.3	307.3	319.2	313.3	311.2
35°	926.1	610.7	316.9	299.0	292.9	287.4	288.4	301.6	337.4	333.2	331.0
37.5°	986.5	604.4	302.2	286.1	285.8	279.2	278.4	294.2	342.2	333.2	331.3
40°	1059.2	603.0	289.1	272.1	277.2	274.7	272.4	282.0	315.6	297.4	293.9
42.5°	1146.9	608.9	279.5	258.6	267.3	273.3	269.2	271.5	285.2	268.8	266.0
45°	1249.3	624.5	272.4	246.8	256.8	272.4	267.6	265.7	267.9	258.9	257.1
47.5°	1368.7	652.3	267.6	236.9	246.8	269.9	267.0	263.1	262.2	257.1	255.7
50°	1496.5	689.8	264.4	227.9	237.8	265.4	266.7	261.2	259.6	257.4	256.8
52.5°	1623.2	730.5	260.5	220.2	230.5	259.9	267.0	259.3	257.1	255.7	255.1
55°	1749.3	772.7	253.5	213.5	225.0	253.5	266.7	256.8	254.2	254.2	254.2
57.5°	1912.9	837.1	244.3	208.1	218.0	245.2	262.5	253.8	250.3	250.6	250.9
60°	2149.1	944.9	233.9	202.0	208.7	235.6	256.0	248.7	244.6	245.8	246.1
62.5°	2543.8	1133.4	219.9	193.3	199.1	225.4	247.8	241.7	237.8	240.1	240.4
65°	3070.1	1361.6	201.3	182.5	189.1	213.8	237.2	233.3	229.1	234.7	234.4
67.5°	3391.1	1428.6	181.8	170.9	179.5	201.6	224.0	222.5	219.6	229.1	228.5
69°	3285.8	1307.6	170.6	163.6	172.9	193.3	215.7	215.1	212.9	222.2	221.5
70°	3122.3	1194.6	163.6	158.8	169.3	188.2	210.3	210.3	208.1	216.0	214.5
72.5°	2508.0	886.1	147.2	146.6	157.1	174.1	195.6	197.2	195.9	198.8	197.2
75°	1472.4	533.9	131.2	133.2	142.4	159.1	179.2	180.6	179.2	178.9	179.2
77.5°	510.6	239.5	115.9	118.8	126.7	143.7	161.3	163.9	161.9	159.7	160.4
80°	199.8	139.2	99.2	103.4	110.1	126.4	143.4	145.1	142.1	141.8	139.2
82.5°	120.0	84.8	77.1	83.9	92.2	109.8	123.9	123.3	121.0	134.1	117.4
85°	52.2	47.1	56.4	63.0	67.2	82.2	104.6	101.8	96.4	84.8	82.9
87.5°	21.2	24.3	31.1	37.4	40.3	53.1	71.7	69.2	70.1	57.6	57.3
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)