

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: P199184

Luminaire Tested: **XNV-AF-01-LED-U-SL2-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199184  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)  
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-SL2-8030-1200  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5307 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 66  
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

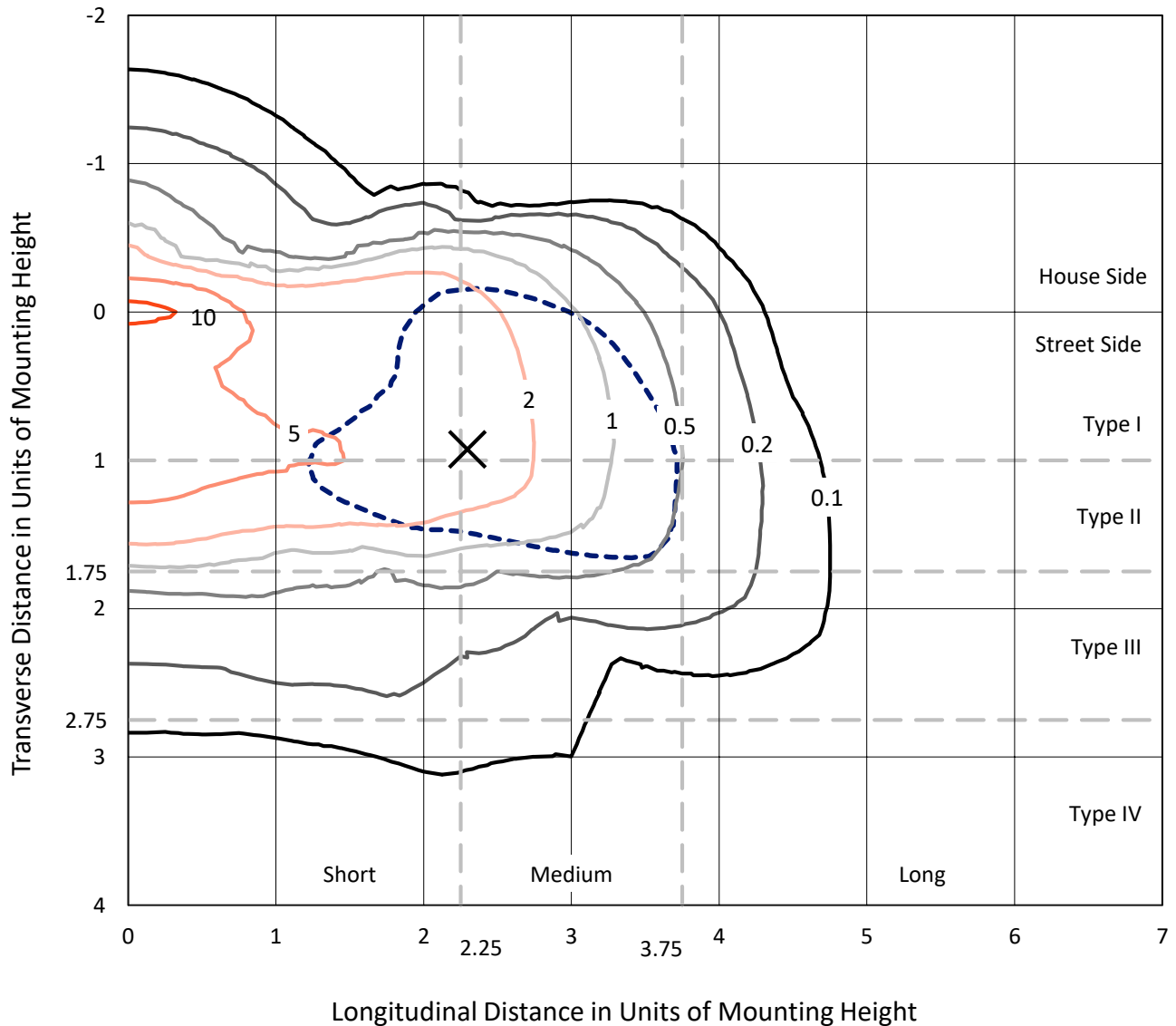


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### Iso-Footcandle Lines of Horizontal Illumination

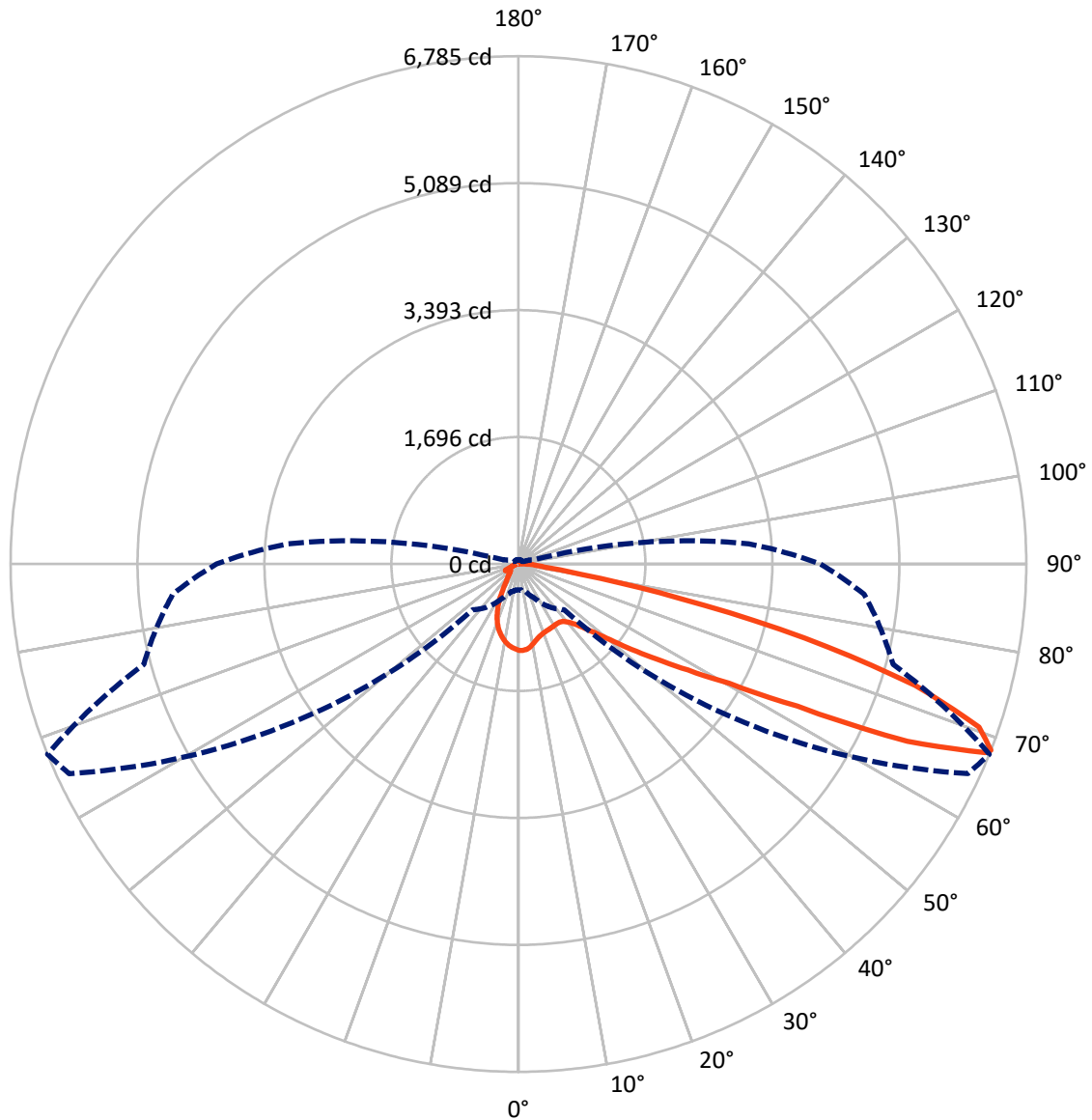
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	868.2	0.0	868.2
	% Fixture	16.4	0.0	16.4
<b>Street Side</b>	Lumens	4438.8	0.0	4438.8
	% Fixture	83.6	0.0	83.6
<b>Total</b>	Lumens	5307.0	0.0	5307.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.9	1.9
10°-20°	229.5	4.3
20°-30°	310.4	5.8
30°-40°	437.6	8.2
40°-50°	719.6	13.6
50°-60°	1115.4	21.0
60°-70°	1446.2	27.3
70°-80°	829.9	15.6
80°-90°	119.4	2.3
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°	5307.0	100.0
0°-180°	5307.0	100.0



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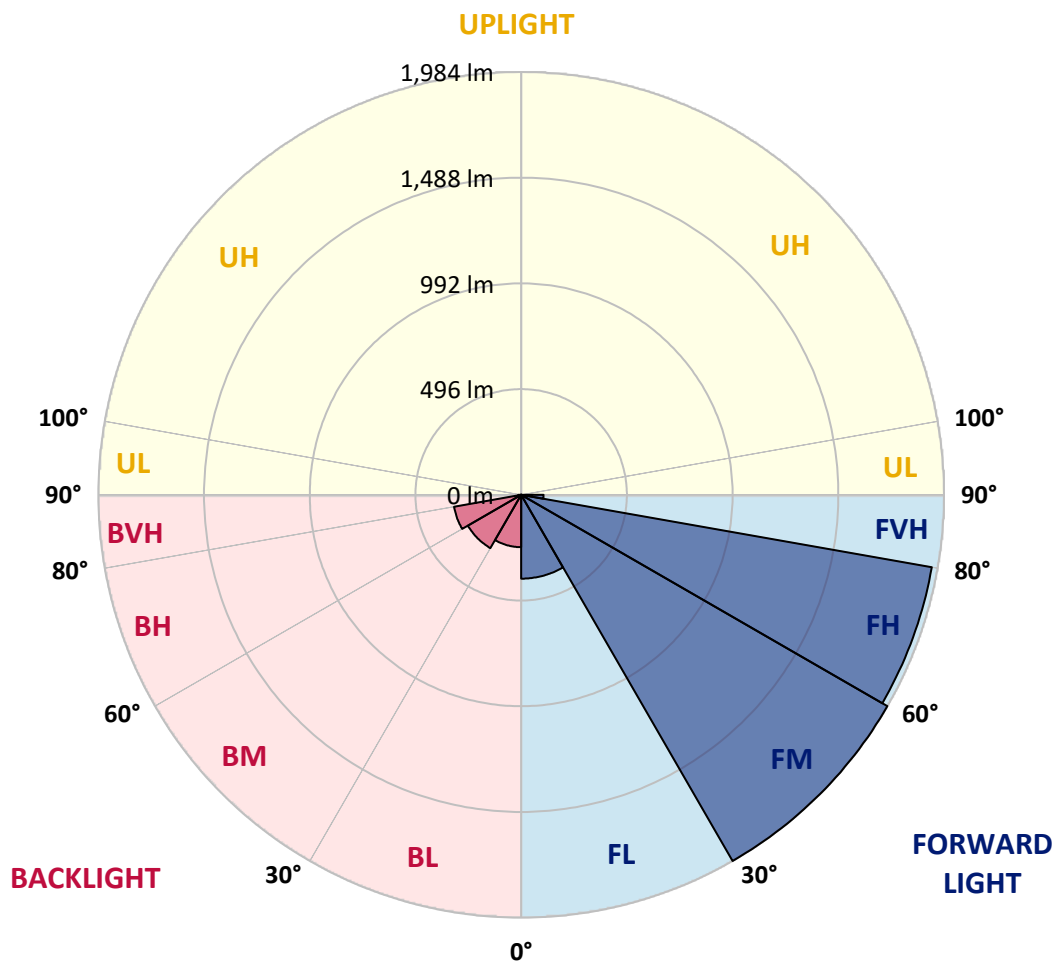
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	393.3	7.4			
FM (30°-60°)	1983.8	37.4			
FH (60°-80°)	1956.4	36.9			G2/5000
FVH (80°-90°)	105.2	2.0			G2/225
BL (0°-30°)	245.5	4.6	B1/500		
BM (30°-60°)	288.8	5.4	B1/1000		
BH (60°-80°)	319.8	6.0	B1/500		G1/500
BVH (80°-90°)	14.2	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1154.8	1154.8	1154.8	1154.8	1154.8	1154.8	1154.8	1154.8	1154.8	1154.8	1154.8
2.5°	1123.9	1132.9	1132.9	1139.5	1145.4	1150.2	1154.4	1154.4	1154.4	1151.6	1149.2
5°	1005.7	1017.8	1019.6	1036.2	1058.0	1084.7	1114.5	1140.9	1146.1	1155.8	1159.6
7.5°	923.5	927.3	933.9	945.4	967.6	1000.5	1047.3	1106.2	1120.4	1150.9	1166.9
10°	865.3	868.4	874.0	885.4	905.5	935.3	981.4	1058.0	1081.6	1135.7	1167.2
12.5°	822.6	825.1	830.3	840.7	861.1	887.8	935.0	1014.7	1043.8	1120.4	1172.1
15°	789.4	793.5	797.7	807.7	828.5	854.2	902.0	983.2	1014.7	1108.3	1181.1
17.5°	776.2	778.3	779.0	784.2	802.9	828.9	876.7	961.0	993.6	1098.6	1188.0
20°	784.5	784.9	777.9	774.5	785.2	809.1	855.6	944.3	977.6	1089.9	1190.8
22.5°	820.9	820.9	802.9	787.6	780.4	795.3	841.4	932.9	968.9	1083.3	1190.8
25°	890.2	887.1	859.0	828.9	796.6	790.4	832.4	925.6	962.4	1079.9	1186.3
27.5°	981.4	978.6	942.9	898.2	840.0	800.8	829.2	919.7	955.8	1074.7	1176.6
30°	1092.4	1089.9	1049.4	990.8	904.8	833.7	836.5	915.6	950.6	1066.0	1160.3
32.5°	1202.9	1201.6	1169.3	1109.3	994.2	889.6	855.6	914.9	947.8	1055.6	1140.5
35°	1314.2	1314.2	1294.5	1243.8	1114.5	973.4	895.4	927.7	953.0	1050.1	1123.6
37.5°	1478.5	1472.0	1435.2	1382.9	1266.0	1082.3	959.9	954.7	973.1	1059.4	1118.0
40°	1733.0	1713.9	1622.1	1534.0	1431.4	1221.7	1054.2	1007.1	1018.2	1091.3	1131.2
42.5°	1999.2	1969.1	1847.4	1706.7	1602.3	1393.6	1178.0	1092.0	1091.7	1153.0	1173.1
45°	2227.7	2212.1	2080.4	1901.8	1797.5	1587.1	1334.3	1218.2	1205.7	1248.7	1253.9
47.5°	2360.5	2350.1	2270.7	2108.4	2029.1	1815.5	1532.6	1393.3	1369.7	1395.3	1387.4
50°	2323.7	2333.8	2310.9	2228.0	2278.0	2136.5	1785.3	1633.2	1588.4	1614.1	1594.7
52.5°	2130.3	2157.3	2177.8	2193.7	2421.1	2566.0	2102.9	1932.7	1895.6	1891.1	1872.4
55°	1781.9	1824.9	1889.3	2006.5	2382.7	2911.0	2657.6	2295.0	2240.9	2212.4	2219.7
57.5°	1212.6	1277.8	1416.8	1639.7	2182.6	3058.0	3477.8	2763.0	2671.4	2570.2	2593.8
60°	668.0	722.5	887.8	1112.5	1726.1	3036.1	4204.8	3523.5	3235.5	2967.1	3015.7
62.5°	432.3	444.1	567.2	759.9	1059.4	2680.4	4608.6	4794.8	4184.3	3490.6	3558.9
65°	347.4	355.7	416.0	612.9	738.1	1724.3	4626.7	6113.5	5711.0	4202.0	4204.1
67.5°	339.4	343.2	378.2	515.5	692.3	938.8	3999.2	6633.5	6726.8	5041.6	4635.7
68°	344.2	348.7	384.1	499.6	692.0	865.3	3696.2	6625.5	6785.4	5182.0	4635.7
70°	303.7	309.2	391.7	516.9	662.5	744.0	2531.0	6273.7	6530.9	5504.8	4398.5
72.5°	158.8	154.3	193.8	408.0	745.7	775.2	1337.1	5241.3	5541.5	5098.1	3800.2
75°	123.8	112.7	108.5	161.2	655.9	803.9	776.5	3725.3	3952.0	3675.0	2540.0
77.5°	116.5	103.0	95.0	95.3	288.8	836.5	628.2	2192.3	2192.3	1753.1	810.5
80°	93.6	81.1	75.9	86.7	139.4	771.0	655.6	999.1	852.1	453.1	223.3
82.5°	61.7	55.1	55.5	70.4	105.7	514.8	759.2	493.3	370.6	200.7	131.4
85°	39.2	33.6	37.4	49.2	79.0	229.5	751.6	342.9	245.4	112.7	65.5
87.5°	19.8	15.3	18.7	25.7	48.2	65.9	618.8	306.1	182.0	46.8	35.7
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°	1154.8	1154.8	1154.8	1154.8	1154.8	1154.8	1154.8	1154.8	1154.8	1154.8	1154.8
2.5°	1149.2	1141.6	1137.8	1131.5	1123.9	1116.3	1111.1	1108.6	1107.3	1108.0	1107.6
5°	1157.5	1147.5	1131.2	1108.0	1084.0	1058.7	1039.3	1024.4	1015.0	1012.3	1011.6
7.5°	1163.8	1149.2	1118.7	1076.4	1035.5	991.1	953.3	923.2	902.7	893.4	893.0
10°	1162.7	1144.0	1095.8	1033.4	973.4	908.3	849.0	798.4	761.6	744.0	743.3
12.5°	1163.8	1138.1	1067.7	983.2	897.2	803.9	715.9	637.2	582.4	556.4	555.4
15°	1167.9	1131.9	1039.0	927.0	808.1	676.4	550.5	451.7	401.8	384.8	384.8
17.5°	1167.6	1121.5	1005.7	861.8	702.4	525.9	375.8	314.8	309.9	325.5	327.9
20°	1160.6	1104.8	962.7	784.5	578.2	364.0	254.8	246.1	285.0	327.9	332.8
22.5°	1149.9	1083.3	913.1	694.7	433.7	237.1	196.6	209.7	262.4	315.8	323.4
25°	1135.0	1057.3	856.3	590.4	288.4	170.6	164.0	180.3	217.4	253.1	258.6
27.5°	1113.2	1024.4	794.2	477.4	184.1	140.4	142.8	154.3	170.2	185.5	188.6
30°	1085.8	985.9	726.6	352.2	139.7	125.5	129.7	136.6	143.5	153.2	155.3
32.5°	1058.0	946.8	656.2	242.0	122.0	117.5	121.7	125.5	131.4	138.0	139.4
35°	1033.1	910.4	583.8	168.8	114.4	112.3	114.4	116.8	122.7	129.3	130.0
37.5°	1015.0	880.5	508.2	133.5	109.9	107.8	108.9	109.9	116.8	126.5	127.6
40°	1012.6	860.8	431.6	119.9	106.4	103.7	103.0	103.7	112.7	123.8	124.8
42.5°	1036.2	861.8	356.7	114.4	103.7	100.5	97.8	99.1	107.1	115.8	116.5
45°	1092.0	886.1	291.9	112.0	101.2	98.8	94.6	95.3	99.1	103.7	104.3
47.5°	1190.5	939.1	242.3	110.6	99.1	97.1	91.9	89.8	90.1	92.6	92.6
50°	1347.9	1027.9	212.2	109.2	97.4	93.6	87.7	83.5	82.5	83.9	84.2
52.5°	1582.5	1180.1	197.6	106.4	94.3	89.1	82.5	78.3	76.6	78.0	78.0
55°	1899.7	1423.1	190.7	102.6	90.5	83.5	77.7	74.2	72.8	73.8	73.8
57.5°	2261.3	1738.9	202.5	97.4	85.6	77.7	73.5	71.1	70.0	71.1	71.4
60°	2690.8	2152.1	283.6	90.8	80.4	72.5	70.0	68.6	67.9	69.0	69.0
62.5°	3261.8	2701.9	438.9	85.6	74.9	67.6	66.9	66.2	65.5	66.6	66.6
65°	3878.2	3202.2	451.7	82.5	70.0	63.4	63.8	63.8	63.1	64.1	64.1
67.5°	4074.4	3158.9	252.4	78.7	64.1	59.3	60.7	60.7	60.3	61.4	61.0
68°	4032.8	3090.2	219.8	77.7	63.1	58.2	59.6	60.0	59.6	60.7	60.3
70°	3722.9	2713.0	144.6	71.8	58.6	54.8	56.9	57.2	56.9	58.2	57.9
72.5°	3073.2	2034.9	106.8	62.7	53.0	50.3	52.3	52.7	53.0	54.4	54.1
75°	1951.7	1123.9	84.2	53.4	47.5	45.1	47.1	48.2	48.9	51.0	49.9
77.5°	534.6	341.1	68.3	45.4	40.9	39.9	41.3	42.6	43.3	45.8	44.0
80°	187.2	150.8	56.9	38.5	34.0	33.6	35.0	36.4	37.1	39.2	37.1
82.5°	113.7	98.5	45.4	30.2	26.7	26.3	28.1	29.5	30.2	30.2	28.8
85°	59.3	52.0	33.3	21.1	18.4	17.3	20.5	22.2	22.5	22.2	21.1
87.5°	33.3	29.5	17.7	10.1	8.3	8.7	10.7	13.2	14.2	13.9	13.2
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)