

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: P198536

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)
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-SL2-7030-1200-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4791 lumens
Efficiency: N/A
Efficacy: 72.6 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 - G1

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

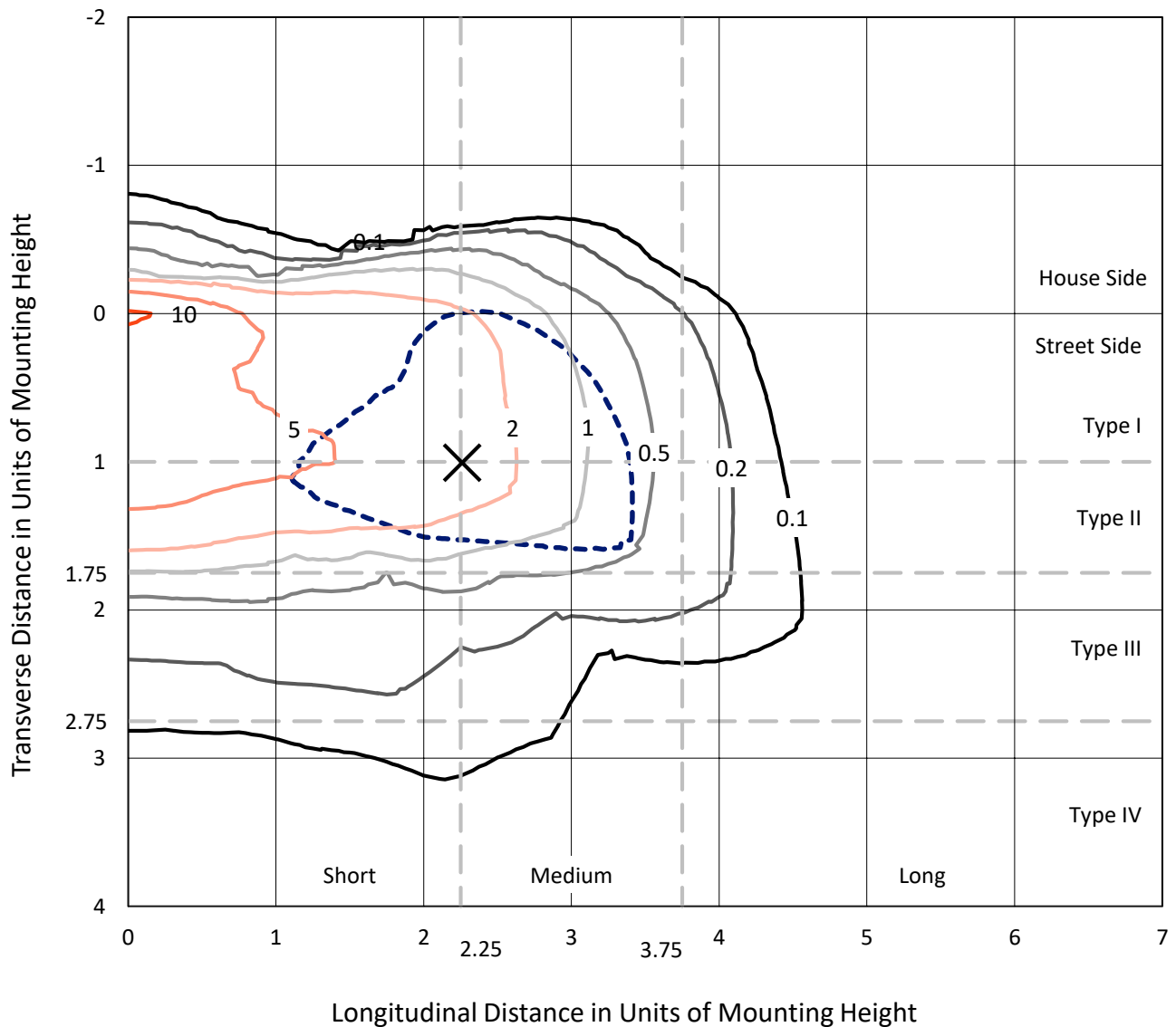


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

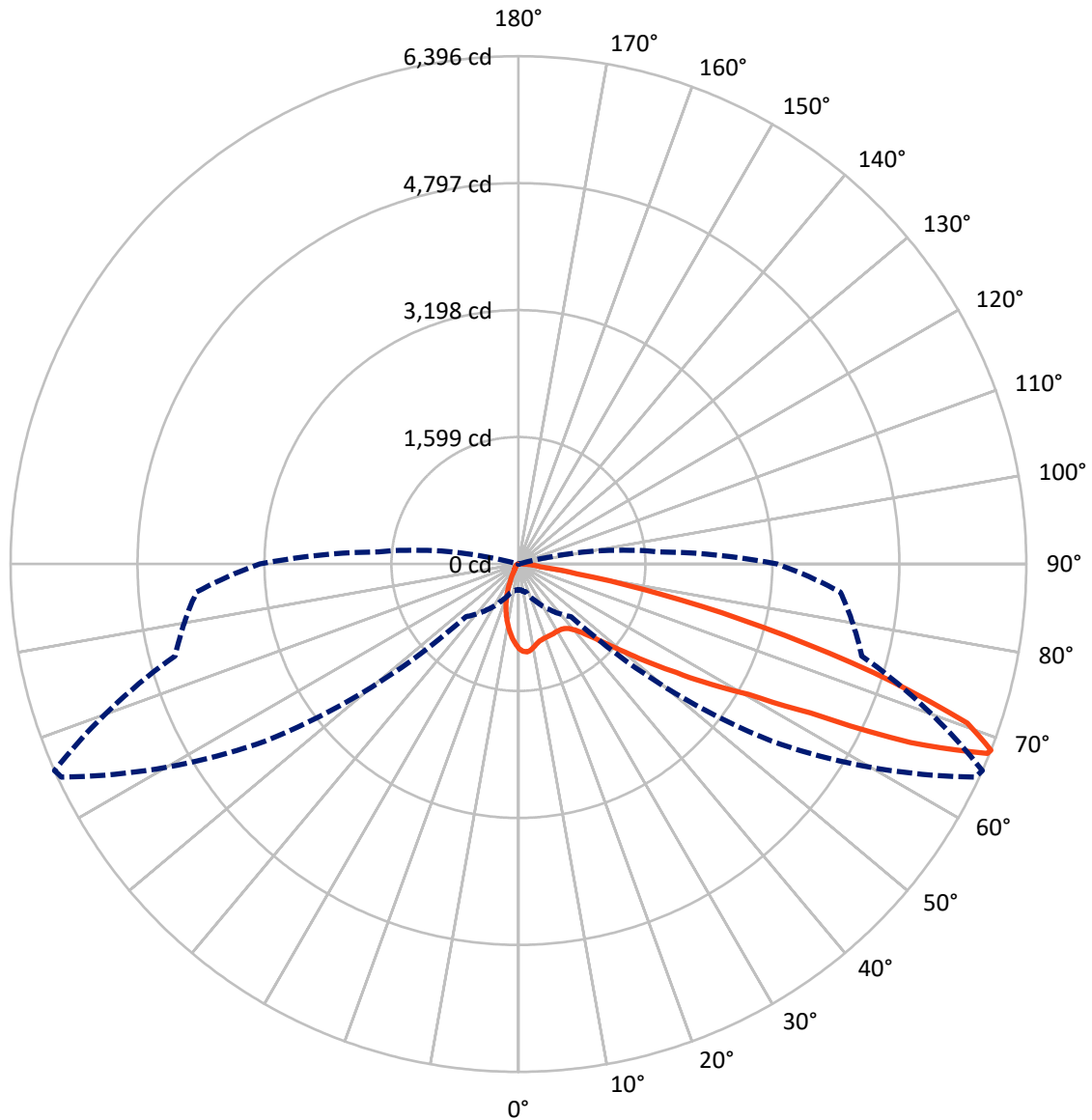


Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	485.3	0.0	485.3
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	4305.7	0.0	4305.7
	% Fixture	89.9	0.0	89.9
Total	Lumens	4791.0	0.0	4791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	1.8
10°-20°	188.3	3.9
20°-30°	272.8	5.7
30°-40°	417.6	8.7
40°-50°	714.4	14.9
50°-60°	1117.4	23.3
60°-70°	1286.7	26.9
70°-80°	643.9	13.4
80°-90°	62.4	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°	4791.0	100.0
0°-180°	4791.0	100.0

Coefficient of Utilization



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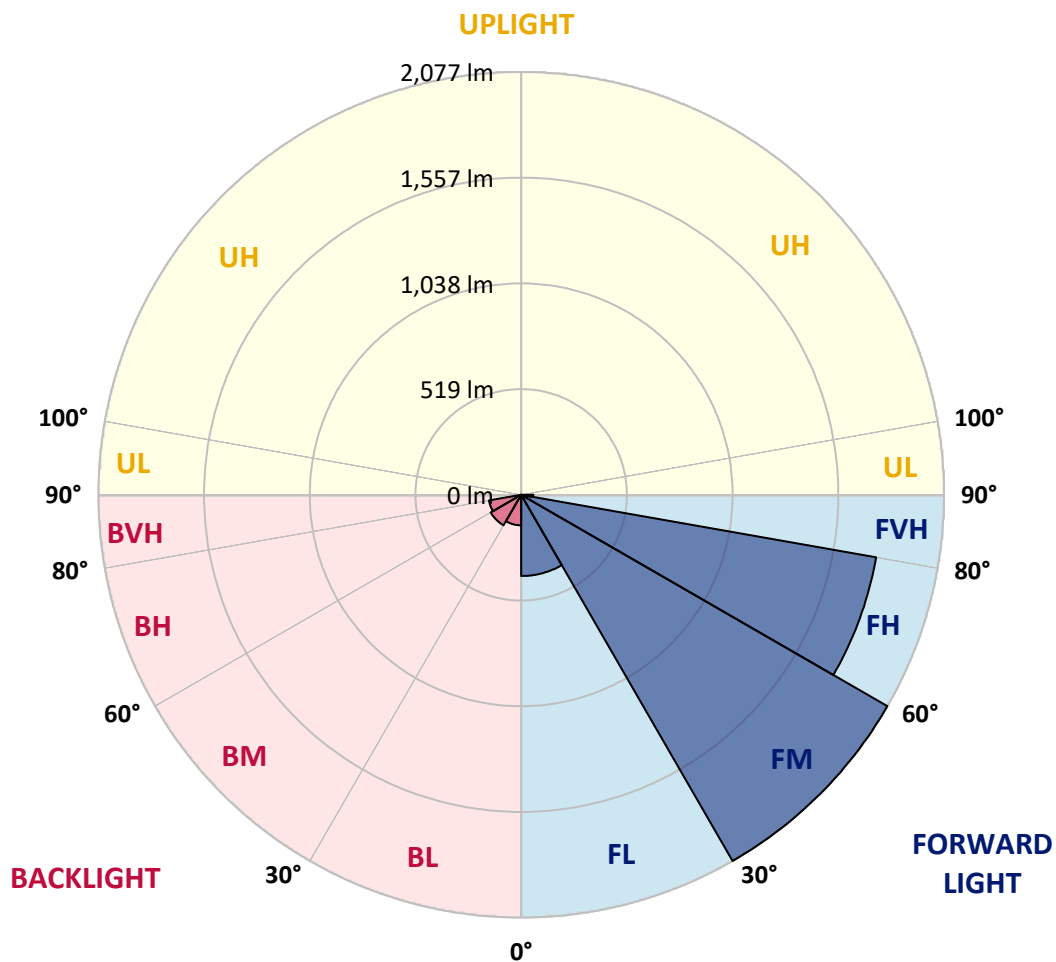
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	398.8	8.3			
FM (30°-60°)	2076.6	43.3			
FH (60°-80°)	1770.3	36.9			G1/1800
FVH (80°-90°)	60.0	1.3			G1/100
BL (0°-30°)	149.8	3.1	B1/500		
BM (30°-60°)	172.8	3.6	B0/220		
BH (60°-80°)	160.3	3.3	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
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°	66°	75°	85°
0°	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4
2.5°	1122.7	1123.4	1123.1	1124.2	1123.4	1117.8	1111.8	1099.0	1100.1	1083.6	1065.1
5°	1043.7	1050.1	1056.5	1062.9	1078.3	1091.8	1108.0	1111.8	1111.8	1097.5	1070.4
7.5°	963.2	963.6	970.7	979.4	1000.1	1024.9	1062.5	1096.3	1097.1	1100.9	1071.2
10°	902.7	904.5	909.4	918.8	939.5	964.0	1006.1	1059.1	1063.3	1091.1	1063.6
12.5°	855.6	857.9	863.2	874.1	892.9	918.1	962.5	1023.0	1028.7	1081.7	1061.4
15°	819.5	822.5	826.7	837.6	857.9	884.6	933.1	998.9	1005.7	1077.9	1068.5
17.5°	804.5	804.5	804.1	811.6	831.9	859.0	909.8	986.2	994.8	1080.9	1080.6
20°	810.9	809.8	801.9	800.0	812.4	839.5	891.4	977.9	987.7	1086.6	1095.2
22.5°	844.7	842.5	824.8	810.1	806.4	824.4	879.0	972.2	983.9	1098.2	1114.8
25°	916.6	909.8	885.4	852.3	822.5	820.7	870.3	969.2	981.6	1111.8	1136.2
27.5°	1009.8	1008.0	968.8	924.5	867.3	833.1	867.7	967.0	979.4	1121.5	1153.5
30°	1125.7	1126.4	1081.3	1023.4	936.9	868.1	876.0	965.8	978.6	1122.3	1161.0
32.5°	1245.3	1246.0	1208.4	1146.4	1032.0	928.2	899.3	971.1	982.8	1119.3	1160.7
35°	1360.4	1361.5	1338.9	1288.9	1159.2	1011.7	943.3	989.2	997.4	1121.2	1159.9
37.5°	1505.9	1510.4	1482.6	1436.0	1318.6	1134.3	1015.1	1025.6	1032.4	1136.6	1165.6
40°	1754.2	1748.1	1668.4	1589.4	1491.6	1283.7	1118.9	1088.5	1090.7	1176.5	1187.0
42.5°	2043.4	2035.9	1899.3	1763.2	1669.5	1463.8	1251.7	1184.7	1184.4	1243.4	1233.6
45°	2292.4	2287.9	2144.2	1962.5	1866.6	1662.8	1415.3	1323.5	1319.0	1359.2	1318.6
47.5°	2469.1	2465.4	2356.7	2174.6	2094.5	1881.7	1619.5	1512.7	1503.3	1510.8	1456.7
50°	2486.4	2482.3	2444.3	2327.3	2360.8	2202.9	1871.9	1760.6	1748.5	1736.9	1665.4
52.5°	2324.7	2324.3	2344.3	2336.7	2547.4	2616.2	2181.4	2067.1	2052.8	2023.1	1952.0
55°	1994.1	1992.2	2067.8	2177.7	2543.2	3042.7	2653.4	2431.9	2413.1	2353.7	2260.4
57.5°	1457.0	1447.3	1605.2	1838.0	2364.6	3229.2	3403.0	2885.1	2853.9	2665.5	2521.8
60°	804.5	808.3	1011.3	1287.0	1941.5	3192.4	4092.8	3413.5	3331.5	2934.4	2789.6
62.5°	451.0	460.4	611.5	836.5	1237.8	2893.4	4462.9	4323.0	4125.5	3248.1	3128.1
65°	341.1	346.8	422.7	645.4	780.4	2021.9	4521.9	5594.6	5424.2	3723.5	3667.0
67.5°	321.2	325.7	362.9	535.2	710.8	1048.6	4077.4	6346.8	6368.2	4371.9	4084.5
68°	323.5	329.1	366.3	514.9	709.7	938.0	3887.8	6350.6	6396.1	4476.4	4070.2
70°	297.1	298.6	387.4	505.1	687.9	739.0	2812.5	5915.4	5997.0	4600.9	3694.9
72.5°	113.6	114.0	173.8	437.4	720.6	743.2	1416.8	4675.4	4679.5	4004.0	2880.6
75°	59.0	49.6	54.5	136.9	688.3	724.4	710.8	3192.4	3172.5	2708.0	1765.1
77.5°	40.6	34.6	36.5	47.4	286.2	724.0	513.4	1835.8	1831.6	1152.0	503.6
80°	22.9	19.9	21.8	39.9	100.4	679.6	478.4	789.1	743.6	202.3	81.6
82.5°	11.7	9.8	11.7	33.5	62.4	427.6	465.2	309.5	275.7	48.1	53.0
85°	3.0	3.0	5.6	23.3	38.7	140.3	417.1	223.4	200.8	21.1	37.6
87.5°	0.8	0.4	2.3	8.7	13.9	30.5	231.3	124.5	107.2	10.9	21.8
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°	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4
2.5°	1057.6	1047.1	1026.4	1003.1	986.5	968.5	957.9	945.2	935.4	926.7	933.1
5°	1053.8	1033.5	987.7	936.1	892.9	851.5	820.7	791.3	769.1	755.2	760.9
7.5°	1044.1	1014.0	939.5	859.0	788.3	721.7	667.6	619.1	581.5	561.2	567.5
10°	1027.5	985.0	885.0	773.3	674.4	580.3	499.8	427.6	373.1	347.5	353.5
12.5°	1015.5	959.4	828.6	690.5	560.4	426.9	320.1	237.3	194.8	169.2	171.5
15°	1010.2	939.5	775.9	603.3	435.9	274.2	173.0	125.2	110.6	105.3	105.7
17.5°	1011.0	923.7	725.9	512.6	310.3	157.6	106.1	95.5	93.3	92.1	92.1
20°	1012.9	907.9	674.0	418.2	198.6	101.5	88.4	85.0	83.9	82.4	82.7
22.5°	1018.5	895.9	621.7	323.5	122.2	82.7	78.2	75.2	73.3	71.1	71.5
25°	1027.1	886.9	570.2	232.8	86.1	72.2	68.1	63.9	60.6	57.9	58.3
27.5°	1032.4	874.1	515.3	158.7	71.5	63.2	57.5	51.9	48.1	45.9	45.5
30°	1028.7	853.4	452.8	104.2	63.2	54.5	47.8	41.4	37.6	35.7	35.7
32.5°	1018.5	826.7	384.0	76.0	56.0	47.0	38.7	33.1	30.5	29.3	29.7
35°	1006.8	798.8	310.7	64.3	50.4	39.9	31.6	27.1	26.0	25.6	25.6
37.5°	1000.4	774.8	240.3	58.3	45.1	33.1	26.0	23.3	22.2	22.2	22.2
40°	1007.6	756.3	177.9	53.8	39.9	27.5	21.8	19.9	19.6	19.6	19.6
42.5°	1038.1	750.0	130.1	50.0	34.6	22.9	18.8	17.3	16.9	17.3	17.3
45°	1097.5	763.9	98.5	46.3	29.7	18.8	16.2	15.0	15.0	15.4	15.4
47.5°	1198.3	799.6	80.9	42.5	24.8	15.8	13.9	13.2	13.2	13.5	13.5
50°	1354.7	865.8	72.6	38.4	20.7	13.5	11.7	11.3	11.3	11.7	12.0
52.5°	1592.4	991.8	68.5	34.2	16.9	11.3	9.8	9.4	9.8	10.2	10.2
55°	1856.8	1153.1	63.6	30.1	14.3	9.4	7.9	7.9	8.3	9.0	9.0
57.5°	2103.2	1308.8	59.0	24.8	12.4	7.5	6.4	6.4	7.1	7.9	7.9
60°	2363.5	1461.5	53.0	19.9	10.5	6.0	5.3	5.3	6.4	7.1	7.5
62.5°	2685.0	1639.1	45.1	15.8	8.3	4.5	3.8	4.9	6.0	7.1	7.1
65°	3149.9	1859.8	35.4	12.4	6.4	3.4	3.0	4.5	5.6	6.8	7.1
67.5°	3318.8	1831.6	26.7	10.2	4.9	2.6	2.6	4.1	5.6	6.8	6.8
68°	3257.1	1770.0	25.6	9.8	4.5	2.6	2.6	4.1	5.6	6.8	6.8
70°	2838.1	1446.9	21.1	7.5	3.8	2.3	2.3	3.8	5.6	6.4	6.8
72.5°	2125.0	961.3	18.1	4.9	3.4	2.3	1.9	3.8	5.3	6.4	6.4
75°	1219.0	399.0	15.4	3.8	3.0	1.9	1.9	3.4	5.3	6.4	6.4
77.5°	344.5	93.3	12.4	3.0	2.6	1.9	1.5	3.4	4.9	6.0	6.0
80°	63.2	27.8	9.8	2.6	2.3	1.9	1.5	3.4	4.9	6.0	6.0
82.5°	41.7	13.2	7.1	2.6	2.3	1.9	1.5	3.0	4.5	5.6	5.6
85°	31.2	9.4	4.5	2.6	2.3	1.9	1.5	3.0	4.5	5.6	5.6
87.5°	17.3	4.1	3.4	3.0	2.6	1.9	1.5	2.6	4.1	5.3	5.3
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)