

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: P198694

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198694
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-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 5046.2 lumens
Efficiency: N/A
Efficacy: 87.0 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): 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

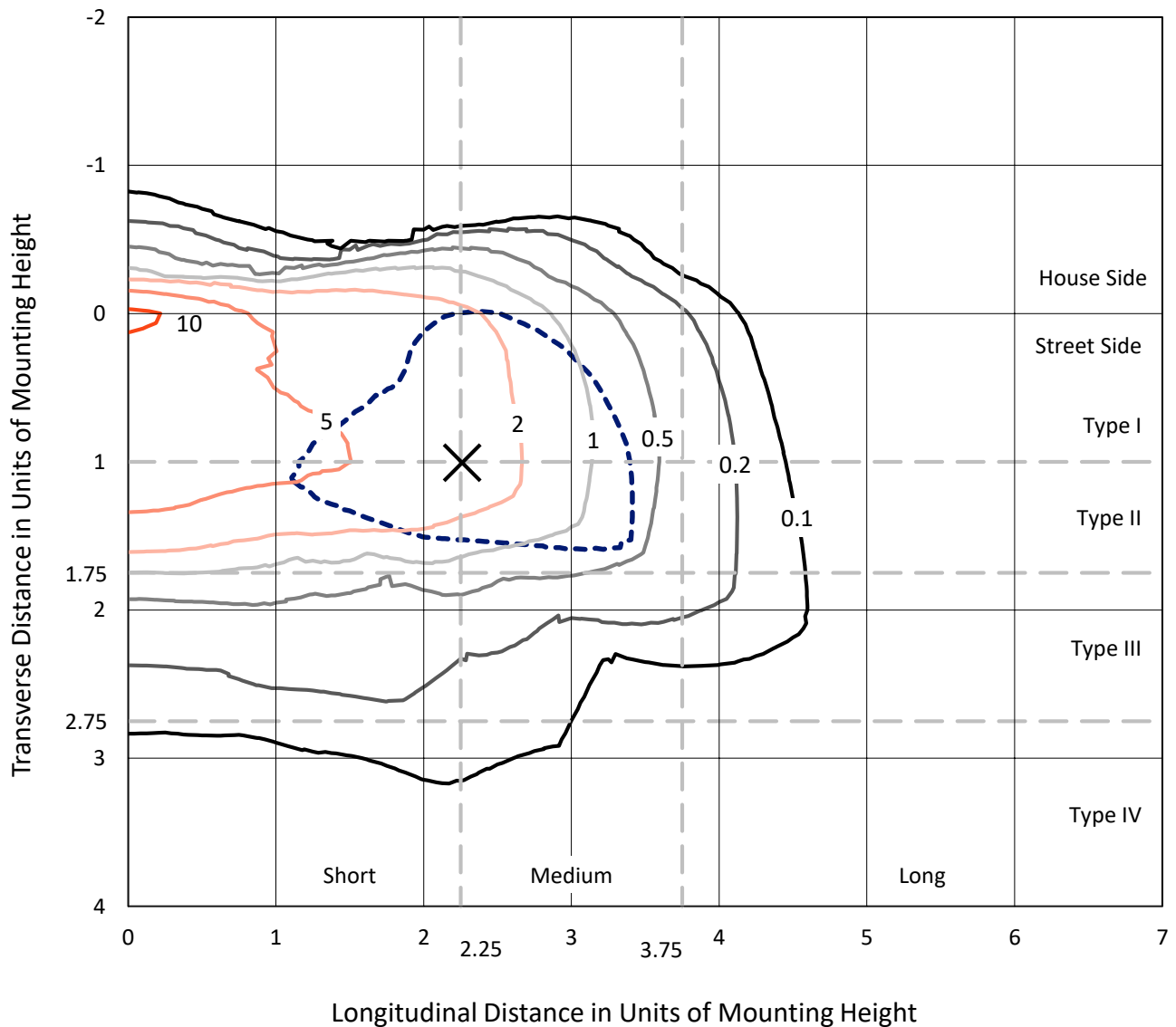


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

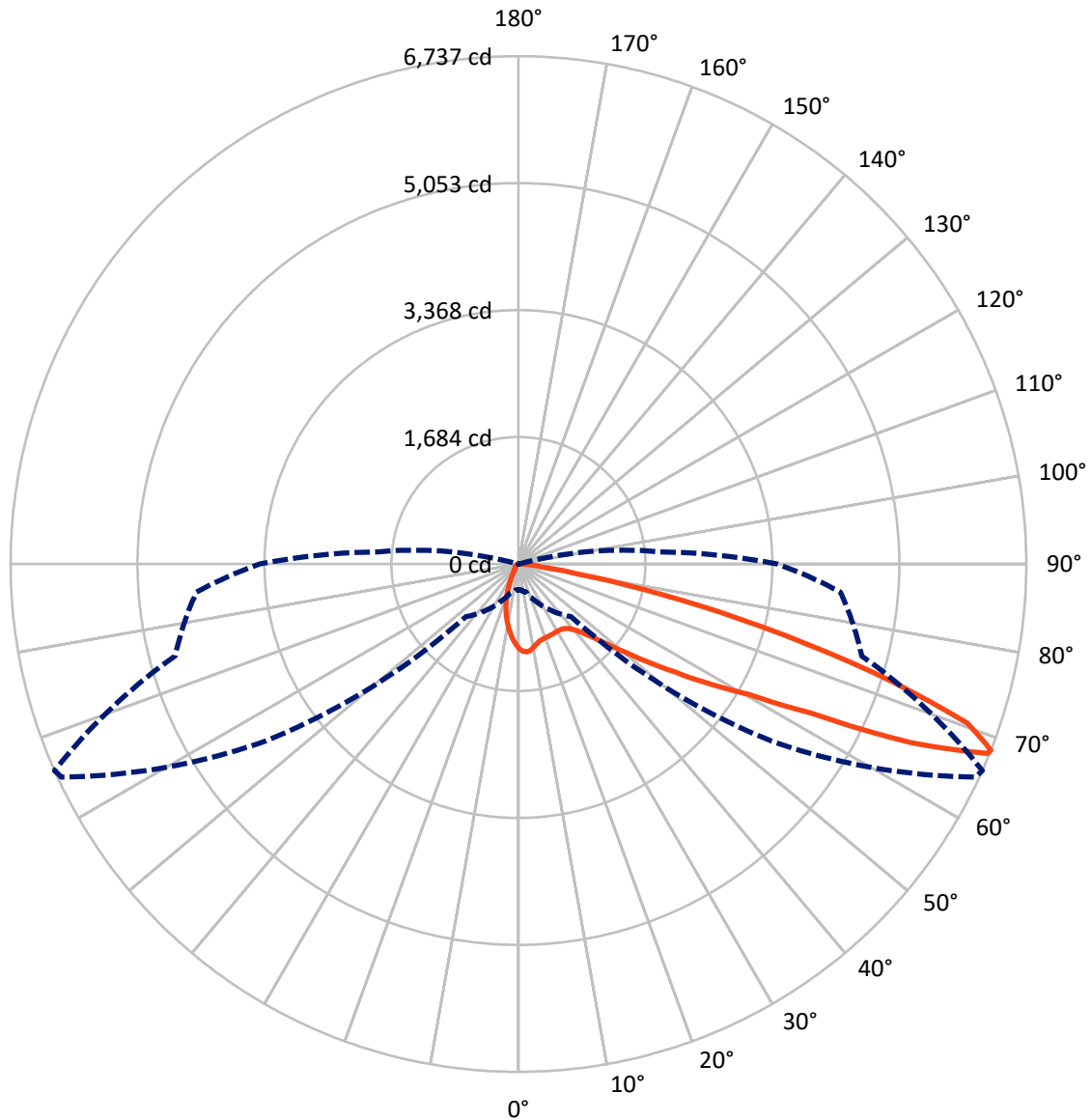


Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Medium - Semi-Cutoff

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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	511.1	0.0	511.1
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	4535.1	0.0	4535.1
	% Fixture	89.9	0.0	89.9
Total	Lumens	5046.2	0.0	5046.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	1.8
10°-20°	198.3	3.9
20°-30°	287.4	5.7
30°-40°	439.9	8.7
40°-50°	752.4	14.9
50°-60°	1177.0	23.3
60°-70°	1355.3	26.9
70°-80°	678.2	13.4
80°-90°	65.7	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°	5046.2	100.0
0°-180°	5046.2	100.0

Coefficient of Utilization



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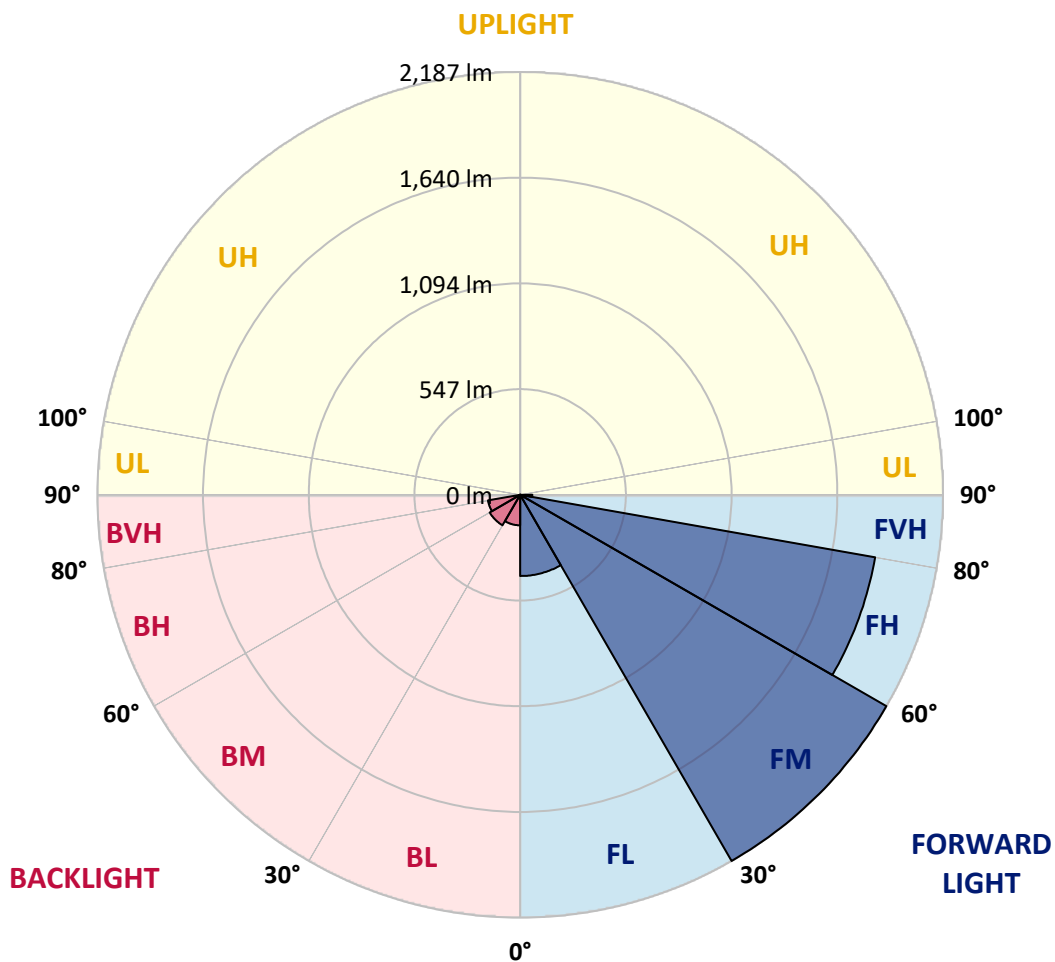
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.1	8.3			
FM (30°-60°)	2187.3	43.3			
FH (60°-80°)	1864.6	36.9			G2/5000
FVH (80°-90°)	63.2	1.3			G1/100
BL (0°-30°)	157.8	3.1	B1/500		
BM (30°-60°)	182.0	3.6	B0/220		
BH (60°-80°)	168.9	3.3	B1/500		G1/500
BVH (80°-90°)	2.5	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2
2.5°	1182.5	1183.2	1182.8	1184.1	1183.2	1177.3	1171.0	1157.6	1158.7	1141.3	1121.9
5°	1099.3	1106.0	1112.8	1119.5	1135.8	1150.0	1167.0	1171.0	1171.0	1155.9	1127.4
7.5°	1014.6	1014.9	1022.4	1031.5	1053.3	1079.5	1119.1	1154.7	1155.5	1159.5	1128.2
10°	950.7	952.7	957.9	967.8	989.6	1015.3	1059.7	1115.5	1119.9	1149.2	1120.3
12.5°	901.2	903.6	909.1	920.7	940.4	967.0	1013.7	1077.5	1083.4	1139.3	1117.9
15°	863.2	866.3	870.7	882.2	903.6	931.7	982.9	1052.1	1059.3	1135.4	1125.5
17.5°	847.3	847.3	846.9	854.9	876.3	904.8	958.3	1038.7	1047.8	1138.5	1138.1
20°	854.1	852.9	844.5	842.6	855.7	884.2	938.9	1030.0	1040.2	1144.5	1153.6
22.5°	889.8	887.3	868.7	853.2	849.4	868.4	925.8	1024.1	1036.4	1156.8	1174.1
25°	965.4	958.3	932.5	897.6	866.3	864.4	916.7	1020.9	1033.9	1171.0	1196.8
27.5°	1063.7	1061.6	1020.5	973.7	913.5	877.5	913.9	1018.4	1031.5	1181.3	1215.0
30°	1185.7	1186.4	1139.0	1077.9	986.7	914.3	922.6	1017.3	1030.7	1182.1	1222.9
32.5°	1311.6	1312.4	1272.8	1207.4	1087.0	977.6	947.2	1022.8	1035.1	1179.0	1222.5
35°	1432.8	1434.1	1410.2	1357.6	1220.9	1065.6	993.5	1041.9	1050.6	1180.9	1221.7
37.5°	1586.2	1590.9	1561.6	1512.4	1388.9	1194.8	1069.2	1080.2	1087.4	1197.2	1227.6
40°	1847.7	1841.3	1757.3	1674.1	1571.0	1352.0	1178.5	1146.4	1148.8	1239.1	1250.3
42.5°	2152.2	2144.3	2000.5	1857.1	1758.5	1541.8	1318.4	1247.8	1247.5	1309.7	1299.4
45°	2414.5	2409.8	2258.4	2067.1	1966.0	1751.3	1490.6	1394.0	1389.3	1431.6	1388.9
47.5°	2600.6	2596.7	2482.2	2290.5	2206.1	1981.9	1705.8	1593.2	1583.4	1591.3	1534.2
50°	2618.9	2614.6	2574.6	2451.3	2486.6	2320.2	1971.6	1854.3	1841.6	1829.3	1754.2
52.5°	2448.5	2448.1	2469.2	2461.2	2683.1	2755.5	2297.6	2177.1	2162.1	2130.8	2055.9
55°	2100.3	2098.4	2178.0	2293.7	2678.7	3204.8	2794.8	2561.5	2541.6	2479.0	2380.8
57.5°	1534.6	1524.4	1690.7	1935.9	2490.6	3401.3	3584.3	3038.8	3005.9	2807.5	2656.1
60°	847.3	851.3	1065.2	1355.6	2044.9	3362.4	4310.8	3595.4	3509.0	3090.7	2938.2
62.5°	475.0	484.9	644.2	881.1	1303.8	3047.5	4700.7	4553.3	4345.3	3421.1	3294.7
65°	359.3	365.2	445.3	679.8	822.0	2129.7	4762.9	5892.6	5713.2	3921.8	3862.4
67.5°	338.3	343.1	382.3	563.7	748.7	1104.5	4294.6	6684.9	6707.5	4604.7	4302.1
68°	340.6	346.6	385.9	542.4	747.5	988.0	4094.9	6688.9	6736.7	4714.9	4287.1
70°	312.9	314.6	408.1	532.0	724.6	778.5	2962.4	6230.5	6316.5	4846.0	3891.7
72.5°	119.7	120.0	183.0	460.7	759.0	782.8	1492.3	4924.4	4928.8	4217.3	3034.1
75°	62.2	52.3	57.5	144.2	725.0	763.0	748.7	3362.4	3341.5	2852.2	1859.1
77.5°	42.8	36.4	38.5	49.9	301.5	762.6	540.7	1933.6	1929.2	1213.4	530.4
80°	24.1	21.0	23.0	41.9	105.8	715.9	503.9	831.1	783.2	213.1	85.9
82.5°	12.3	10.3	12.3	35.3	65.8	450.4	490.0	326.0	290.4	50.7	55.9
85°	3.2	3.2	5.9	24.6	40.8	147.7	439.4	235.3	211.5	22.2	39.6
87.5°	0.8	0.4	2.4	9.1	14.6	32.1	243.7	131.1	112.9	11.5	23.0
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°	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2
2.5°	1114.0	1102.8	1081.1	1056.5	1039.1	1020.1	1008.9	995.5	985.2	976.1	982.9
5°	1110.0	1088.6	1040.2	986.0	940.4	896.8	864.4	833.5	810.1	795.4	801.4
7.5°	1099.7	1068.0	989.6	904.8	830.3	760.2	703.2	652.0	612.4	591.1	597.8
10°	1082.3	1037.5	932.1	814.5	710.2	611.2	526.5	450.4	393.0	366.0	372.4
12.5°	1069.6	1010.6	872.7	727.3	590.2	449.6	337.2	250.0	205.2	178.3	180.7
15°	1064.1	989.6	817.2	635.5	459.1	288.8	182.2	132.0	116.5	110.9	111.3
17.5°	1064.8	972.9	764.6	539.9	326.8	166.0	111.7	100.7	98.2	97.1	97.1
20°	1066.8	956.3	709.9	440.5	209.2	107.0	93.1	89.5	88.4	86.7	87.2
22.5°	1072.8	943.6	654.8	340.6	128.8	87.2	82.3	79.3	77.2	74.9	75.3
25°	1081.9	934.1	600.6	245.2	90.7	76.1	71.7	67.3	63.7	61.0	61.4
27.5°	1087.4	920.7	542.7	167.2	75.3	66.6	60.6	54.6	50.7	48.3	48.0
30°	1083.4	898.9	477.0	109.8	66.6	57.5	50.3	43.6	39.6	37.6	37.6
32.5°	1072.8	870.7	404.5	80.0	59.0	49.5	40.8	34.9	32.1	30.9	31.3
35°	1060.5	841.4	327.2	67.7	53.1	41.9	33.2	28.5	27.3	26.9	26.9
37.5°	1053.7	816.0	253.2	61.4	47.6	34.9	27.3	24.6	23.3	23.3	23.3
40°	1061.3	796.7	187.4	56.7	41.9	28.9	23.0	21.0	20.6	20.6	20.6
42.5°	1093.3	789.9	137.1	52.7	36.4	24.1	19.8	18.2	17.8	18.2	18.2
45°	1155.9	804.6	103.8	48.7	31.3	19.8	17.1	15.9	15.9	16.3	16.3
47.5°	1262.1	842.2	85.2	44.8	26.2	16.7	14.6	13.9	13.9	14.2	14.2
50°	1426.9	912.0	76.4	40.4	21.8	14.2	12.3	11.9	11.9	12.3	12.7
52.5°	1677.2	1044.6	72.1	36.0	17.8	11.9	10.3	9.9	10.3	10.7	10.7
55°	1955.8	1214.5	66.9	31.7	15.0	9.9	8.3	8.3	8.7	9.5	9.5
57.5°	2215.2	1378.5	62.2	26.2	13.1	7.9	6.8	6.8	7.6	8.3	8.3
60°	2489.4	1539.4	55.9	21.0	11.0	6.3	5.5	5.5	6.8	7.6	7.9
62.5°	2828.0	1726.4	47.6	16.7	8.7	4.7	4.0	5.1	6.3	7.6	7.6
65°	3317.6	1959.0	37.2	13.1	6.8	3.6	3.2	4.7	5.9	7.2	7.6
67.5°	3495.5	1929.2	28.1	10.7	5.1	2.8	2.8	4.4	5.9	7.2	7.2
68°	3430.6	1864.2	26.9	10.3	4.7	2.8	2.8	4.4	5.9	7.2	7.2
70°	2989.3	1524.0	22.2	7.9	4.0	2.4	2.4	4.0	5.9	6.8	7.2
72.5°	2238.2	1012.5	19.0	5.1	3.6	2.4	1.9	4.0	5.5	6.8	6.8
75°	1283.9	420.3	16.3	4.0	3.2	1.9	1.9	3.6	5.5	6.8	6.8
77.5°	362.8	98.2	13.1	3.2	2.8	1.9	1.5	3.6	5.1	6.3	6.3
80°	66.6	29.4	10.3	2.8	2.4	1.9	1.5	3.6	5.1	6.3	6.3
82.5°	44.0	13.9	7.6	2.8	2.4	1.9	1.5	3.2	4.7	5.9	5.9
85°	32.8	9.9	4.7	2.8	2.4	1.9	1.5	3.2	4.7	5.9	5.9
87.5°	18.2	4.4	3.6	3.2	2.8	1.9	1.5	2.8	4.4	5.5	5.5
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)