

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: McGRAW-EDISON

Report Number: P526671

Luminaire Tested: **GALN-SA1C-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526671  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-827-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3052 lumens  
Efficiency: N/A  
Efficacy: 53.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

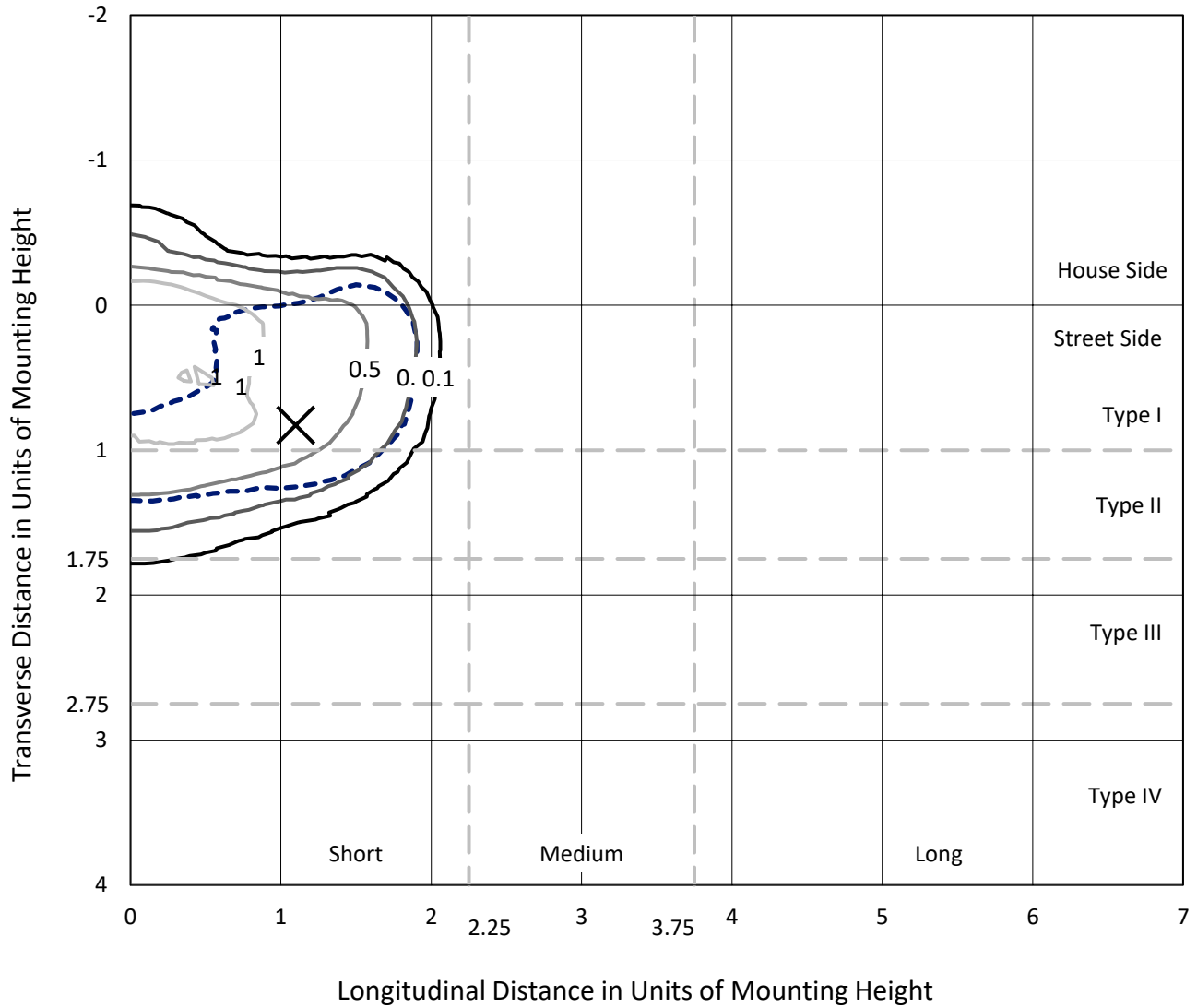
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

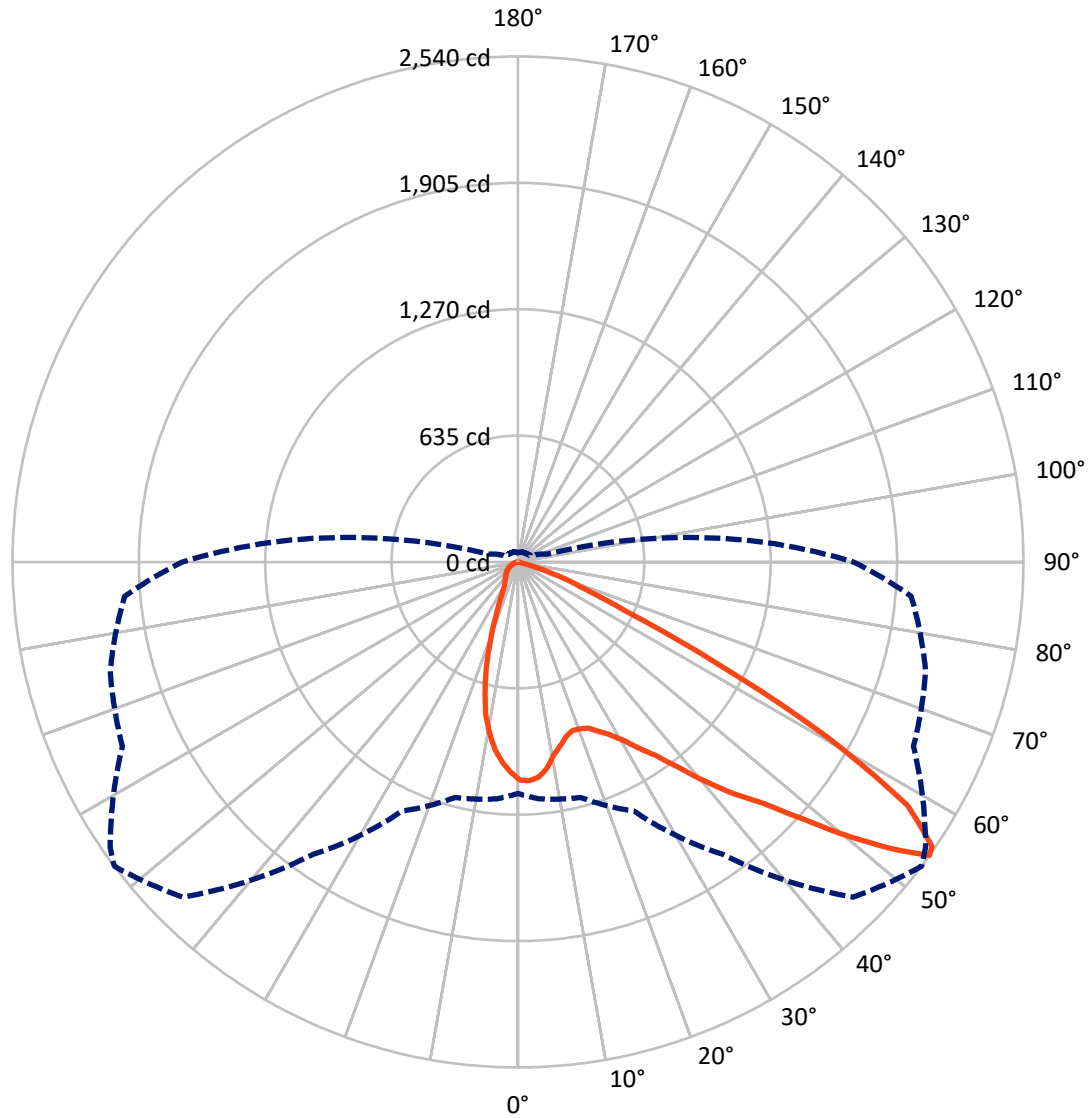
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	505.0	0.0	505.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	2547.0	0.0	2547.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	3052.0	0.0	3052.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.1	3.1
10°-20°	215.6	7.1
20°-30°	306.5	10.0
30°-40°	473.0	15.5
40°-50°	741.5	24.3
50°-60°	861.4	28.2
60°-70°	325.5	10.7
70°-80°	31.0	1.0
80°-90°	3.5	0.1
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°	3052.0	100.0
0°-180°	3052.0	100.0

**Coefficient of Utilization**

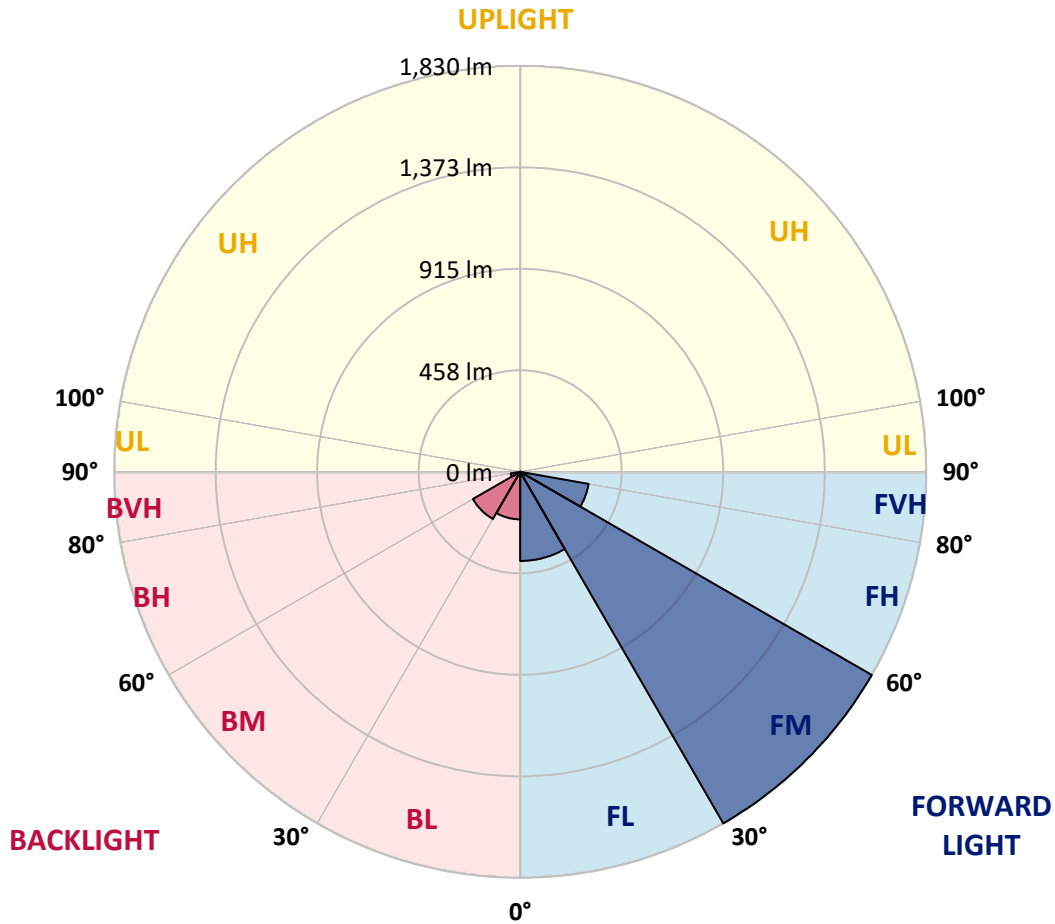


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.9	13.2			
FM (30°-60°)	1830.2	60.0			
FH (60°-80°)	313.2	10.3			G0/660
FVH (80°-90°)	1.8	0.1			G0/10
BL (0°-30°)	214.3	7.0	B1/500		
BM (30°-60°)	245.7	8.1	B1/1000		
BH (60°-80°)	43.3	1.4	B0/110		G0/110
BVH (80°-90°)	1.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2
2.5°	1090.5	1080.9	1090.5	1091.7	1098.5	1104.8	1100.8	1109.9	1104.8	1099.1	1097.4
5°	1002.4	1015.5	1016.1	1036.5	1032.0	1069.5	1086.0	1081.4	1109.3	1107.6	1103.6
7.5°	923.4	918.3	925.1	949.0	979.1	1022.3	1046.2	1045.6	1085.4	1113.9	1111.0
10°	850.0	849.5	863.7	882.4	908.0	953.5	986.5	1003.0	1065.0	1108.2	1114.4
12.5°	800.6	798.3	813.6	829.0	869.4	904.6	946.7	954.6	1025.7	1088.3	1098.5
15°	768.2	773.3	774.4	804.0	829.6	876.2	909.2	925.7	1007.5	1072.3	1111.6
17.5°	762.5	769.3	769.9	794.3	821.6	860.8	889.8	912.0	992.2	1080.3	1112.1
20°	773.8	769.9	773.3	788.6	815.3	852.9	894.9	902.3	987.1	1084.3	1118.4
22.5°	806.2	805.1	796.6	809.1	827.9	867.1	906.9	918.3	1001.8	1104.8	1123.5
25°	842.1	848.3	840.4	838.7	851.7	890.4	943.3	958.1	1051.3	1141.7	1139.4
27.5°	909.2	902.9	902.9	894.9	891.5	910.3	982.5	1007.0	1106.5	1189.5	1157.6
30°	973.4	980.2	975.1	978.0	955.2	953.5	1038.2	1068.4	1204.3	1262.3	1196.3
32.5°	1075.2	1066.1	1074.6	1067.2	1037.1	1006.4	1113.9	1145.1	1322.5	1345.8	1254.3
35°	1159.9	1155.9	1192.3	1191.2	1142.3	1112.1	1194.0	1240.6	1405.0	1445.9	1322.5
37.5°	1280.4	1273.1	1314.6	1334.5	1290.7	1245.8	1308.9	1362.9	1481.7	1526.1	1392.5
40°	1404.4	1423.2	1478.9	1511.9	1465.2	1405.5	1449.3	1465.8	1532.9	1578.4	1440.2
42.5°	1561.3	1588.6	1645.5	1673.9	1669.9	1605.1	1592.0	1591.5	1569.9	1563.6	1475.5
45°	1712.0	1701.8	1789.3	1851.3	1901.3	1882.6	1729.6	1712.6	1628.4	1585.8	1484.6
47.5°	1778.0	1774.5	1834.2	1944.6	2115.1	2138.4	1929.8	1863.8	1727.4	1679.0	1534.0
50°	1692.7	1710.3	1769.4	1891.7	2153.2	2331.2	2175.4	2086.7	1842.8	1792.7	1651.2
52.5°	1414.1	1426.0	1482.3	1637.5	2023.6	2444.9	2410.8	2359.6	2054.9	1971.8	1855.3
54°	1162.8	1194.6	1225.3	1381.1	1792.7	2381.8	2539.9	2500.6	2193.0	2120.8	1983.8
55°	1012.6	1031.4	1053.6	1208.8	1633.0	2274.9	2525.1	2528.5	2285.7	2167.4	2070.2
57.5°	739.7	752.8	730.1	798.9	1121.2	1847.3	2309.6	2401.7	2410.8	2237.4	2123.1
60°	565.2	570.9	545.3	556.1	697.1	1267.9	1786.5	1897.4	2174.8	1955.4	1798.4
62.5°	438.4	439.5	438.9	457.7	480.5	746.0	1117.3	1215.6	1499.4	1388.5	1221.3
65°	323.0	317.8	326.9	383.8	409.9	469.1	588.5	660.1	814.8	688.0	491.8
67.5°	209.2	210.9	220.0	285.4	351.4	359.9	362.2	356.5	357.1	196.7	123.4
70°	125.7	128.5	125.7	161.5	251.3	258.1	236.0	230.3	179.7	46.6	46.1
72.5°	74.5	70.5	63.1	69.4	104.6	125.1	112.6	112.0	70.5	27.3	27.3
75°	31.3	28.4	23.3	21.0	27.9	26.7	26.7	23.9	18.8	18.2	17.1
77.5°	6.3	6.3	4.5	5.1	6.8	8.0	9.7	9.7	11.4	11.4	10.8
80°	0.0	0.6	1.7	3.4	5.1	7.4	8.5	8.5	9.7	9.7	8.0
82.5°	0.0	0.6	1.7	3.4	4.5	6.8	8.5	8.5	9.7	10.2	8.5
85°	0.0	0.6	1.7	2.8	4.5	5.7	5.7	5.1	4.0	3.4	2.3
87.5°	0.0	0.0	0.6	1.1	0.6	1.1	1.1	1.1	1.1	1.1	1.1
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°	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2
2.5°	1101.3	1100.8	1087.1	1065.0	1059.8	1041.1	1038.8	1027.4	1033.7	1012.6	1010.4
5°	1092.2	1085.4	1068.9	1054.7	1013.2	983.6	960.3	931.9	915.4	918.3	907.5
7.5°	1105.3	1087.7	1058.7	1009.2	958.6	906.9	879.0	821.0	800.0	768.7	764.2
10°	1091.7	1078.6	1033.7	951.8	881.9	807.4	742.0	677.8	628.9	607.8	603.3
12.5°	1090.5	1067.8	992.7	901.8	800.6	693.7	598.7	518.5	470.2	442.9	436.7
15°	1072.9	1045.6	946.7	824.4	684.6	551.5	448.0	370.7	333.8	317.8	322.4
17.5°	1074.6	1033.7	900.6	742.6	570.3	404.8	305.9	266.1	256.4	260.4	260.4
20°	1072.9	1007.0	844.9	648.2	436.7	280.9	224.6	210.4	216.6	229.1	226.3
22.5°	1063.8	994.5	793.7	548.7	321.2	208.1	180.2	180.8	190.5	205.8	209.2
25°	1070.6	966.6	728.9	448.0	234.3	166.0	156.4	160.3	170.6	181.9	184.2
27.5°	1065.5	946.7	661.3	348.0	171.1	142.7	142.1	146.7	151.2	159.8	159.8
30°	1071.2	928.5	594.7	258.7	141.0	130.8	128.5	131.9	136.5	138.2	137.6
32.5°	1092.2	914.8	518.0	193.3	124.5	119.4	119.4	119.4	118.8	121.1	121.7
35°	1138.3	917.1	450.3	149.5	113.7	109.7	108.0	105.8	104.6	105.8	106.3
37.5°	1188.3	916.0	380.4	127.4	105.8	102.3	98.4	95.0	94.4	95.5	93.8
40°	1210.5	926.8	315.6	114.3	98.4	94.4	88.1	85.3	85.9	87.0	85.9
42.5°	1240.6	930.2	273.5	104.1	91.5	85.3	81.3	77.9	77.3	79.0	78.5
45°	1240.1	910.9	229.1	98.4	85.3	78.5	73.3	70.5	70.5	71.6	72.2
47.5°	1276.5	908.0	196.7	93.2	80.7	73.9	67.7	65.4	64.8	64.8	63.7
50°	1361.2	947.8	171.7	87.6	75.1	68.8	63.7	60.8	58.6	57.4	56.9
52.5°	1526.6	1071.8	152.4	80.7	68.8	63.7	59.1	56.9	54.0	51.2	50.6
54°	1687.0	1199.7	151.2	75.1	63.7	60.3	56.3	55.2	51.7	47.8	46.6
55°	1759.2	1274.2	155.2	70.5	60.3	58.0	54.6	53.4	50.0	45.5	44.9
57.5°	1818.9	1303.2	152.9	58.6	54.6	54.0	51.2	49.5	45.5	39.2	38.1
60°	1464.1	985.4	109.7	51.7	50.0	48.9	46.6	45.5	40.4	33.5	33.0
62.5°	925.1	566.9	69.9	45.5	43.8	42.1	39.2	38.1	33.5	26.7	25.0
65°	394.0	234.8	47.2	40.4	37.5	34.7	32.4	30.7	26.7	19.9	19.3
67.5°	102.3	83.6	39.2	35.3	31.3	27.3	25.6	22.7	18.2	13.6	13.1
70°	46.1	42.1	33.0	29.6	25.0	21.0	18.8	15.9	11.9	9.1	8.5
72.5°	27.3	26.7	25.0	22.2	18.8	15.9	13.6	10.8	8.0	5.1	5.1
75°	17.1	16.5	17.1	15.4	13.1	11.9	10.2	7.4	4.5	2.3	2.3
77.5°	10.2	10.2	10.2	9.7	9.1	9.1	7.4	4.5	2.3	0.6	0.6
80°	8.0	8.0	8.5	8.0	8.0	8.0	6.3	3.4	1.1	0.0	0.0
82.5°	8.0	8.5	9.7	9.1	8.0	6.8	5.7	3.4	1.1	0.0	0.0
85°	2.3	1.7	2.8	4.0	5.7	5.1	4.0	2.8	1.1	0.0	0.0
87.5°	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.6	0.6	0.0	0.0
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)