

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: P647702

Luminaire Tested: **GALN-SA1A-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647702  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-835-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2702.9 lumens  
Efficiency: N/A  
Efficacy: 81.9 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

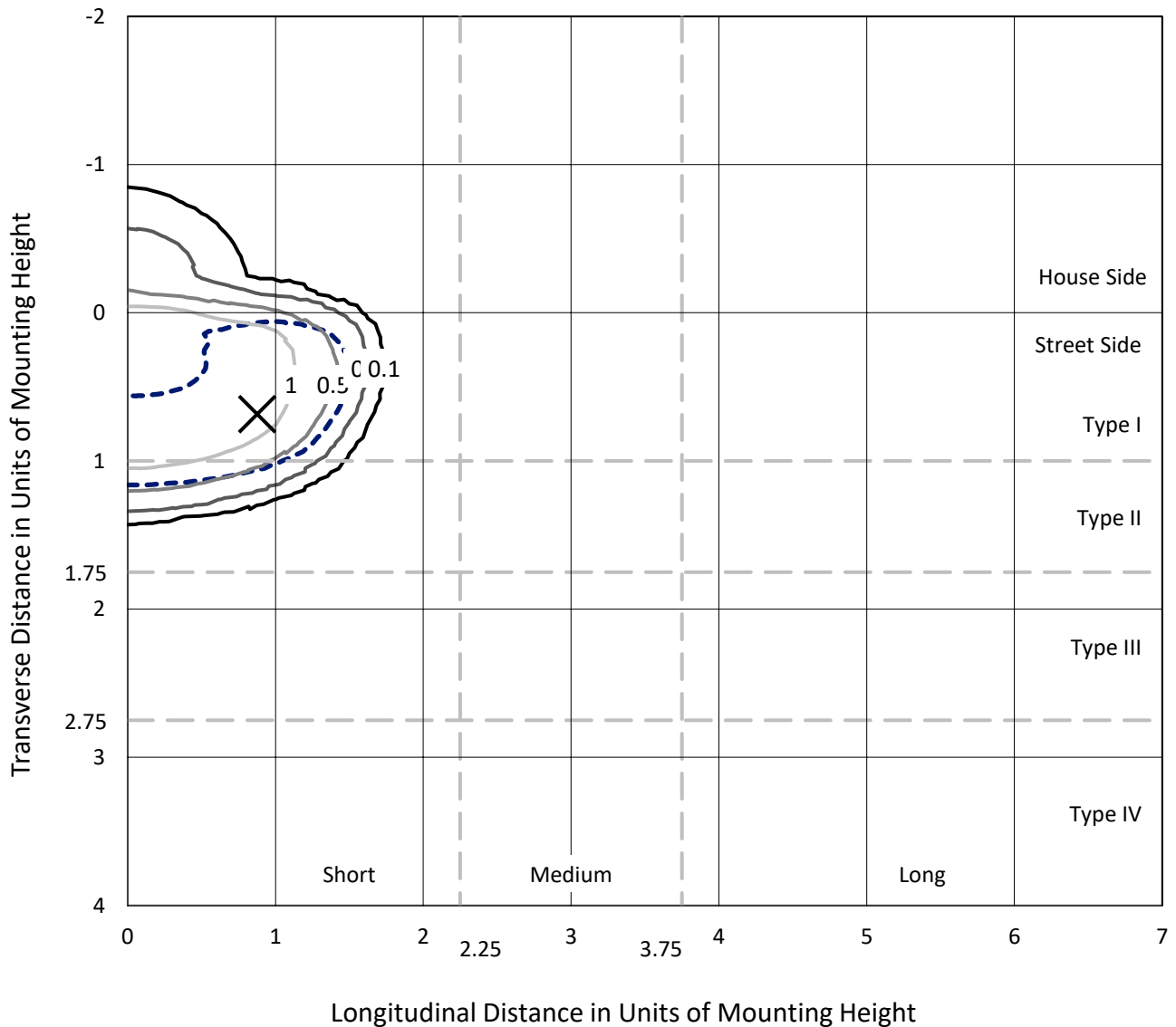
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

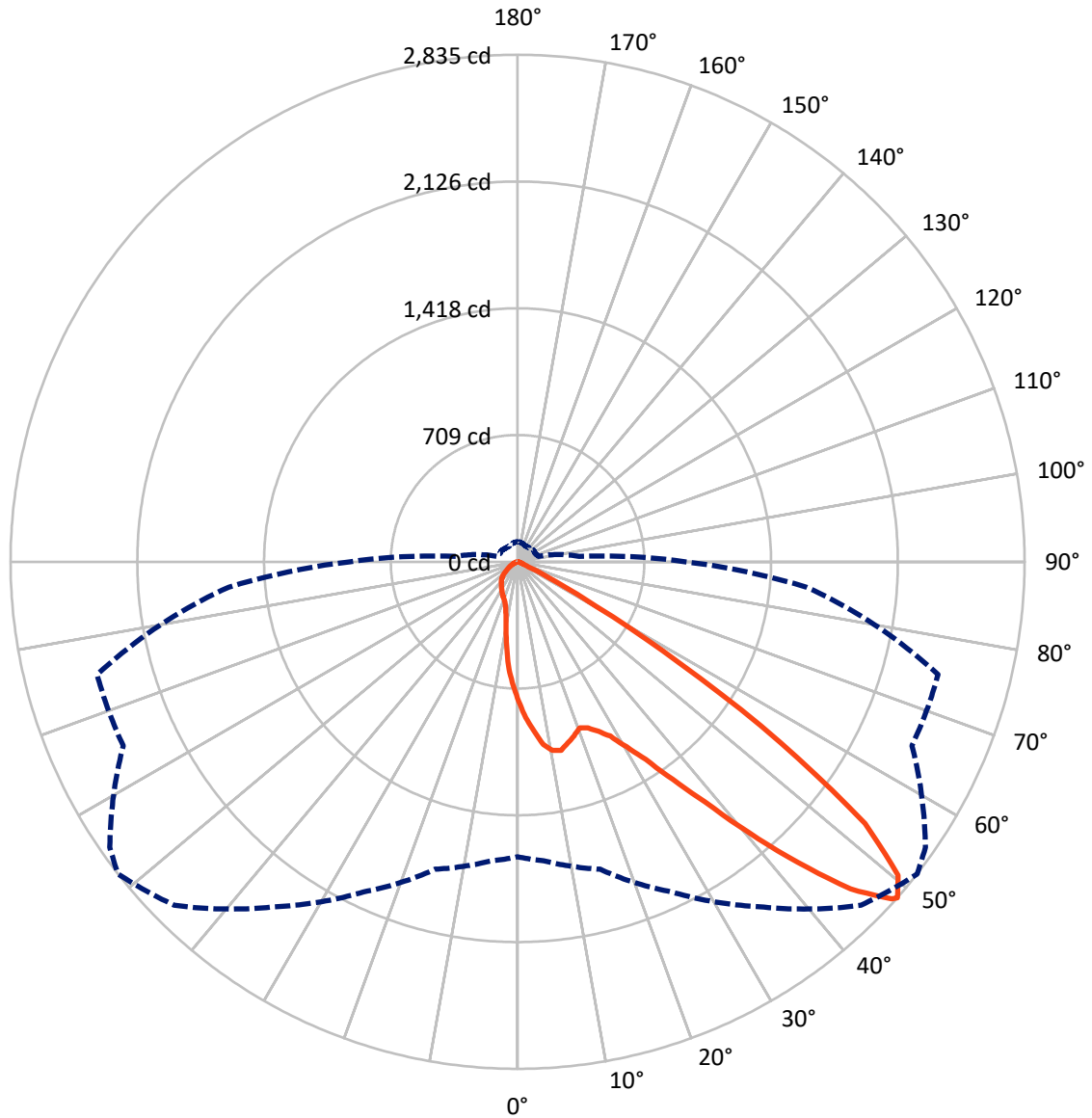
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 48-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	329.1	0.0	329.1
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	2373.8	0.0	2373.8
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	2702.9	0.0	2702.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.4	2.6
10°-20°	186.7	6.9
20°-30°	318.8	11.8
30°-40°	587.0	21.7
40°-50°	911.7	33.7
50°-60°	548.7	20.3
60°-70°	63.5	2.3
70°-80°	12.3	0.5
80°-90°	2.8	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°	2702.9	100.0
0°-180°	2702.9	100.0

**Coefficient of Utilization**

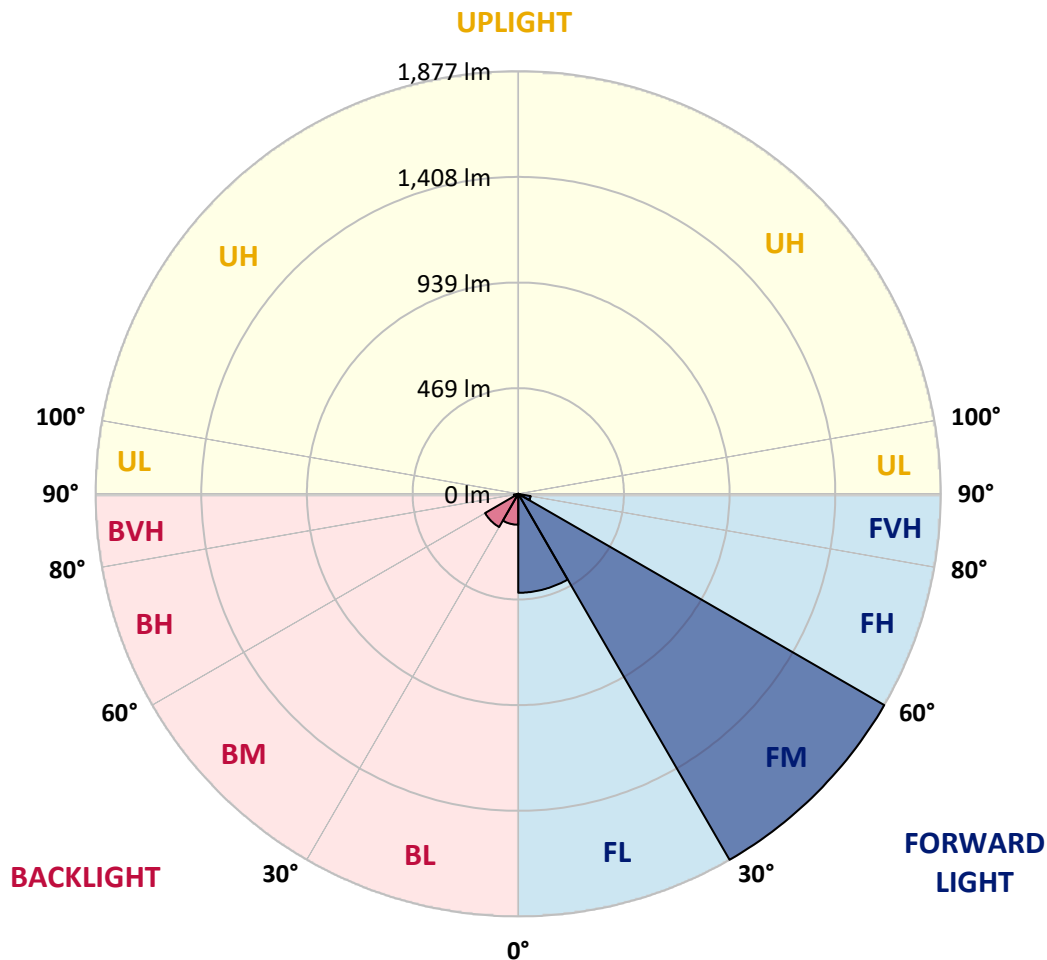


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.5	16.3			
FM (30°-60°)	1877.1	69.4			
FH (60°-80°)	55.9	2.1			G0/660
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	137.5	5.1	B1/500		
BM (30°-60°)	170.3	6.3	B0/220		
BH (60°-80°)	19.9	0.7	B0/110		G0/110
BVH (80°-90°)	1.5	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°	52°	55°	65°	75°	85°
0°	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6
2.5°	946.0	924.4	926.4	912.2	903.9	890.5	872.3	868.8	849.1	822.3	795.1
5°	1031.1	1026.0	1032.7	1012.3	1013.0	991.0	948.4	949.2	903.9	860.1	818.0
7.5°	1036.7	1024.9	1031.5	1049.7	1060.3	1056.3	1032.3	1011.5	968.5	904.3	842.8
10°	928.3	950.8	957.8	987.8	1030.3	1075.3	1072.6	1073.7	1037.9	953.9	864.1
12.5°	863.3	848.3	872.3	890.5	954.7	1041.8	1081.6	1090.2	1093.0	1002.0	885.3
15°	833.7	833.7	837.7	842.8	889.3	969.7	1050.9	1076.1	1135.6	1065.0	918.9
17.5°	852.3	851.5	857.0	846.3	863.7	925.6	1022.5	1051.3	1183.3	1126.9	945.2
20°	908.6	911.3	907.8	877.1	878.3	924.8	991.0	1036.3	1215.5	1180.5	980.3
22.5°	987.0	988.6	968.5	935.0	925.2	948.0	1009.1	1043.7	1241.5	1244.7	991.0
25°	1077.6	1071.4	1067.4	1020.1	990.2	1009.9	1050.1	1070.1	1257.7	1299.9	1021.3
27.5°	1203.3	1190.7	1166.7	1124.5	1102.5	1074.5	1103.2	1136.4	1303.9	1377.1	1054.4
30°	1389.0	1377.9	1331.0	1276.6	1218.7	1191.1	1200.2	1218.3	1386.9	1466.6	1098.2
32.5°	1668.3	1645.0	1577.3	1473.6	1394.8	1318.8	1316.5	1335.7	1461.4	1590.3	1150.1
35°	1976.1	1968.9	1869.3	1762.5	1610.0	1492.6	1494.5	1504.8	1604.1	1752.6	1218.3
37.5°	2180.5	2219.5	2156.1	2041.4	1913.3	1745.5	1702.9	1706.5	1799.9	1944.9	1341.3
40°	2338.5	2305.4	2312.9	2286.1	2198.7	2084.3	1990.2	1971.7	2026.5	2157.6	1463.4
42.5°	2269.6	2271.2	2317.2	2380.7	2402.3	2394.1	2297.9	2262.9	2220.3	2331.9	1579.6
45°	2075.0	2115.5	2175.4	2343.3	2490.6	2628.9	2610.0	2551.7	2354.2	2469.7	1646.6
47.5°	1764.4	1762.8	1861.0	2079.3	2406.7	2730.6	2816.5	2775.5	2449.2	2454.4	1632.8
48°	1649.8	1678.1	1779.4	2036.3	2353.5	2715.6	2835.0	2783.4	2433.1	2433.9	1621.0
50°	1219.5	1214.4	1340.5	1655.7	2102.1	2551.7	2756.9	2797.2	2432.7	2330.2	1538.3
52.5°	644.3	666.3	758.1	1041.0	1486.2	2088.3	2431.9	2494.6	2346.8	2160.8	1419.3
55°	273.8	247.4	318.0	470.0	836.1	1395.2	1784.1	1923.6	1984.3	1912.2	1241.5
57.5°	97.7	106.8	122.9	176.9	351.5	763.6	1063.9	1172.2	1374.7	1403.1	846.0
60°	62.6	63.8	69.0	81.2	132.0	294.3	504.7	591.0	682.9	704.9	394.8
62.5°	48.5	48.9	51.2	53.2	62.6	114.2	189.5	224.6	233.3	200.5	103.6
65°	40.6	41.0	41.7	41.7	44.6	53.6	66.2	72.9	70.9	70.2	58.7
67.5°	31.2	31.9	33.5	33.5	35.1	32.7	36.6	39.0	44.2	53.6	50.0
70°	24.4	24.8	26.0	26.8	26.8	23.6	26.4	28.7	32.3	39.8	39.4
72.5°	18.9	19.7	20.5	20.5	19.3	16.1	18.9	20.9	23.3	27.6	26.8
75°	14.6	14.6	15.0	12.2	9.5	8.3	11.4	13.8	17.3	18.1	15.0
77.5°	3.9	4.3	3.9	3.5	3.9	5.9	7.5	8.7	11.0	11.0	9.9
80°	0.0	0.4	1.2	2.3	3.9	5.5	6.7	7.5	8.7	9.5	9.1
82.5°	0.0	0.4	1.2	2.3	3.5	4.3	5.9	6.3	7.1	8.3	8.3
85°	0.0	0.4	0.8	1.6	2.3	2.7	2.7	2.3	2.3	2.0	1.6
87.5°	0.0	0.0	0.4	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2
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°	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6
2.5°	784.5	772.3	753.8	724.6	696.6	678.5	661.2	641.8	631.3	630.5	624.5
5°	794.0	766.4	722.2	672.2	618.6	572.5	526.0	495.7	468.5	453.5	450.8
7.5°	799.1	763.2	691.9	608.0	516.5	441.3	389.3	351.1	336.1	325.1	324.7
10°	809.7	757.7	646.6	522.9	409.7	333.7	297.9	280.5	272.2	269.1	264.4
12.5°	817.6	747.5	600.1	435.4	323.8	276.6	260.8	256.9	257.3	258.9	256.9
15°	828.6	738.4	537.5	357.4	271.9	249.0	249.0	249.8	255.3	256.1	255.7
17.5°	827.9	720.7	472.9	294.3	240.4	237.2	238.3	245.9	249.4	250.6	247.8
20°	837.3	704.2	406.2	251.4	222.6	227.4	235.2	237.2	241.6	242.3	239.2
22.5°	834.5	662.7	344.4	217.5	209.2	218.3	226.1	228.6	227.4	225.0	224.6
25°	829.4	627.3	287.7	195.0	199.4	209.2	216.7	212.3	210.0	210.4	210.8
27.5°	820.3	582.4	240.8	179.3	186.0	200.5	200.1	198.6	200.9	199.0	200.9
30°	818.8	537.5	202.2	165.1	176.1	186.7	187.5	190.3	193.1	189.5	193.1
32.5°	821.1	488.2	174.5	156.4	170.2	170.6	179.3	182.0	180.1	172.2	173.0
35°	839.3	450.4	154.5	151.7	160.7	161.1	169.4	165.9	157.2	152.5	155.3
37.5°	877.5	418.8	145.0	147.4	148.1	153.3	153.7	146.6	147.4	147.0	148.5
40°	926.4	394.8	138.3	143.4	142.7	146.2	132.0	135.9	139.5	140.6	141.5
42.5°	959.8	377.5	134.0	137.1	135.5	129.3	121.4	125.3	128.0	132.4	133.2
45°	974.8	363.7	128.9	126.1	126.1	114.6	111.5	112.3	118.6	123.3	122.5
47.5°	950.4	350.3	119.8	111.5	114.2	104.8	101.2	101.2	108.0	113.8	112.7
48°	940.9	344.8	120.2	108.4	110.3	103.2	99.7	98.9	106.4	111.9	111.9
50°	894.0	324.3	109.9	99.7	95.8	95.0	92.6	93.4	98.1	103.2	103.2
52.5°	802.7	280.2	93.0	85.5	78.4	83.2	84.3	82.8	85.1	89.8	89.4
55°	669.9	215.2	74.5	70.9	65.4	70.5	72.9	70.9	68.6	72.1	72.1
57.5°	429.1	115.8	59.5	60.3	54.7	59.9	61.9	57.2	52.8	55.6	55.2
60°	193.5	69.4	48.9	47.7	44.2	50.0	53.2	47.7	41.7	43.8	45.7
62.5°	72.5	49.3	37.0	36.3	35.5	41.0	42.5	38.2	32.3	33.5	33.9
65°	53.2	43.4	29.5	26.8	28.3	32.3	31.6	27.2	23.3	23.3	24.0
67.5°	45.3	37.8	24.0	20.9	20.9	21.3	19.7	17.3	16.1	16.9	17.7
70°	35.5	29.9	18.9	16.1	14.6	13.0	11.4	11.0	9.9	11.0	10.6
72.5°	22.9	20.1	14.6	12.2	11.0	9.1	7.5	7.1	5.9	5.5	5.5
75°	12.2	12.2	11.4	9.9	8.7	7.1	5.9	4.7	3.1	2.3	2.3
77.5°	8.7	9.5	10.3	9.5	7.9	5.9	4.7	3.1	1.6	0.8	0.8
80°	8.3	9.5	10.3	9.1	7.9	5.9	4.3	2.3	1.2	0.4	0.4
82.5°	7.5	8.7	9.5	8.3	7.1	5.1	3.9	2.3	1.2	0.4	0.4
85°	1.6	2.0	2.3	2.3	2.7	3.5	2.7	2.0	0.8	0.4	0.4
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.4	0.4	0.4
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)