

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: P648198

Luminaire Tested: **GALN-SA1B-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-835-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4067.7 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

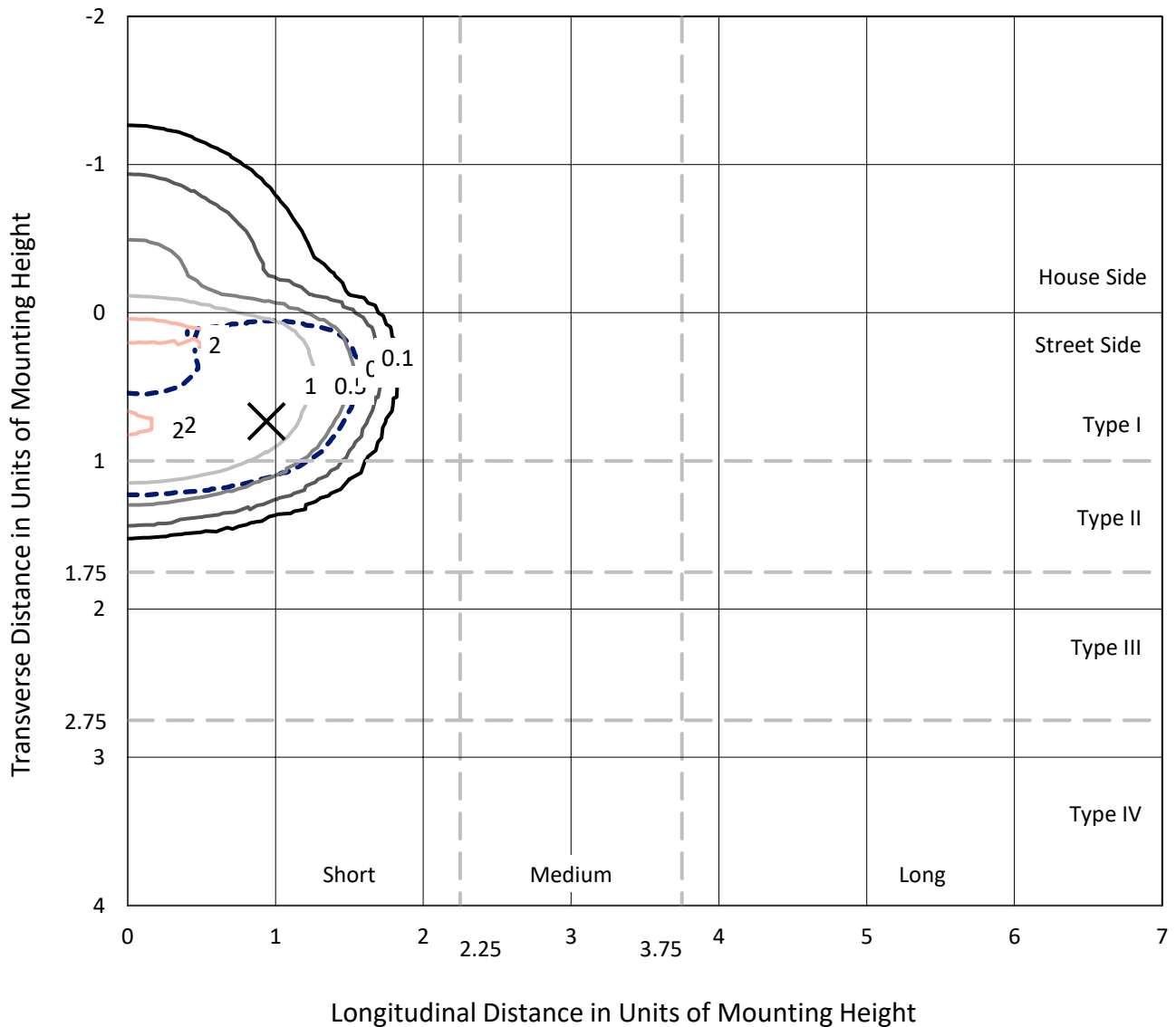
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

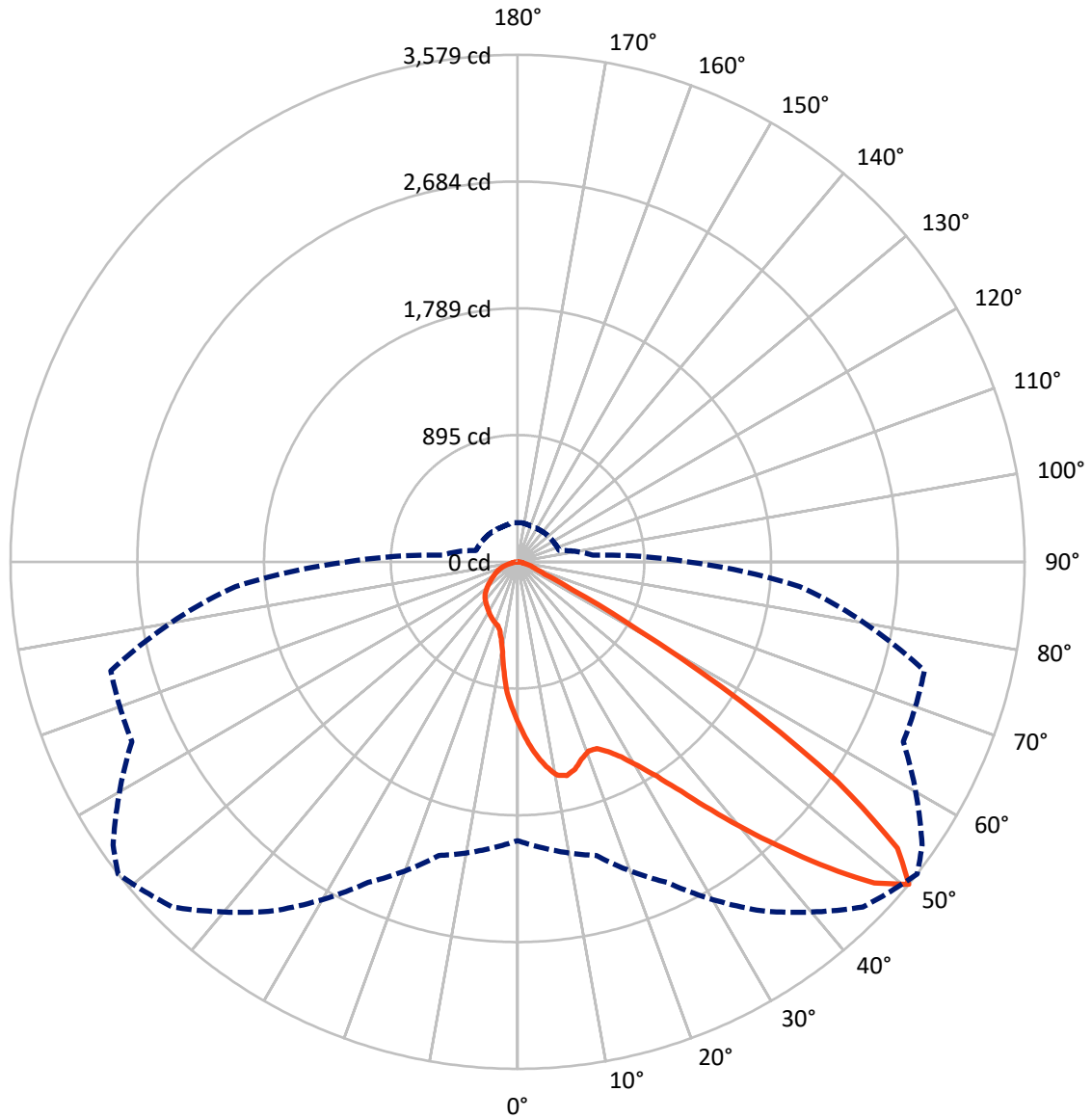
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	764.6	0.0	764.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	3303.1	0.0	3303.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	4067.7	0.0	4067.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.7	2.6
10°-20°	283.3	7.0
20°-30°	477.1	11.7
30°-40°	800.7	19.7
40°-50°	1224.8	30.1
50°-60°	893.0	22.0
60°-70°	198.7	4.9
70°-80°	71.7	1.8
80°-90°	12.7	0.3
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°	4067.7	100.0
0°-180°	4067.7	100.0

**Coefficient of Utilization**

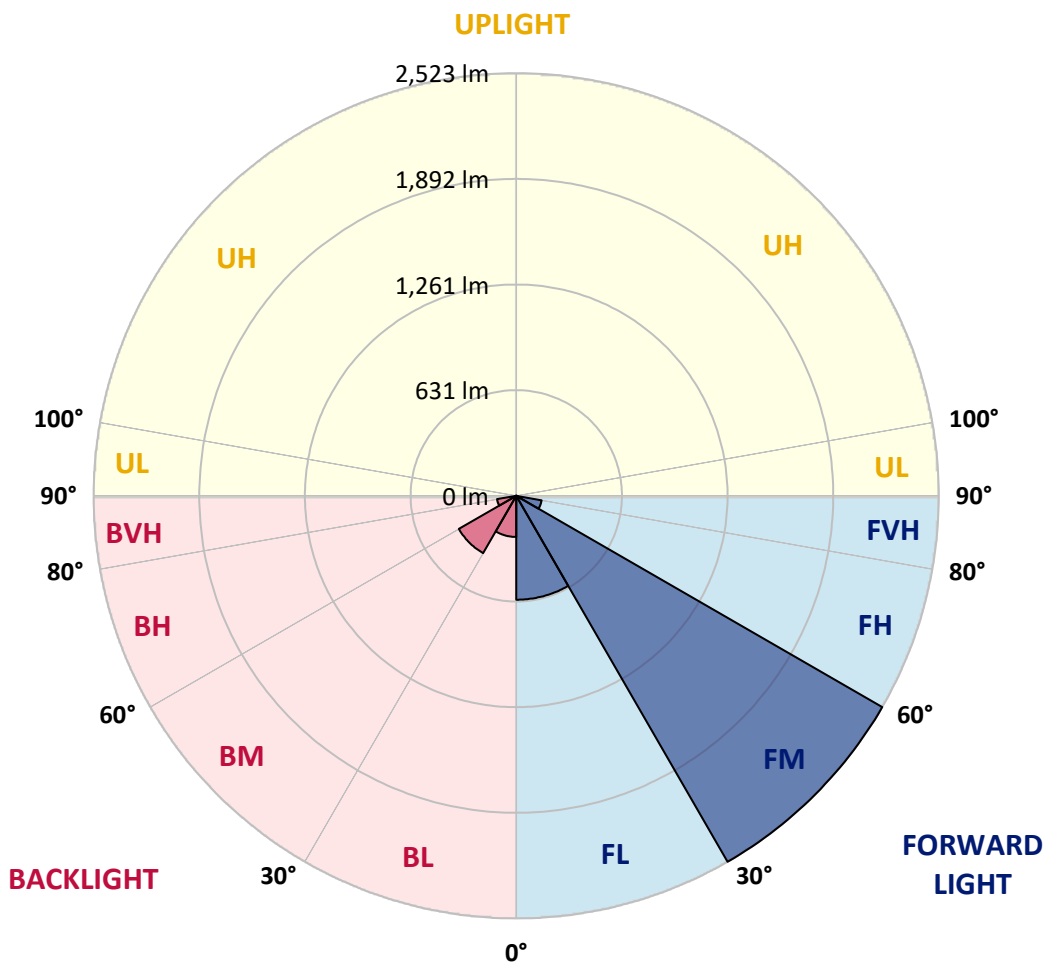


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.5	15.3			
FM (30°-60°)	2523.0	62.0			
FH (60°-80°)	153.9	3.8			G0/660
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	245.6	6.0	B1/500		
BM (30°-60°)	395.5	9.7	B1/1000		
BH (60°-80°)	116.5	2.9	B1/500		G1/500
BVH (80°-90°)	7.0	0.2			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6
2.5°	1350.0	1324.1	1327.0	1308.4	1288.3	1282.4	1261.8	1242.2	1227.5	1196.1	1167.2
5°	1475.6	1467.7	1455.9	1441.3	1426.0	1388.8	1367.7	1343.2	1289.3	1240.7	1192.7
7.5°	1493.7	1492.2	1498.6	1498.6	1504.0	1489.7	1459.8	1442.7	1385.4	1306.4	1217.2
10°	1366.3	1370.6	1401.5	1441.7	1497.6	1536.3	1531.5	1527.0	1464.3	1356.4	1246.1
12.5°	1264.8	1254.9	1273.1	1307.4	1391.2	1484.9	1548.1	1548.6	1532.4	1436.3	1267.2
15°	1207.4	1214.3	1219.1	1235.3	1298.6	1406.9	1518.2	1551.0	1622.1	1492.7	1300.6
17.5°	1244.2	1221.1	1220.1	1224.1	1256.4	1337.8	1462.8	1519.2	1671.2	1565.3	1341.7
20°	1292.2	1291.7	1278.0	1273.1	1272.6	1345.1	1426.5	1503.0	1697.2	1659.4	1383.4
22.5°	1376.5	1376.5	1354.0	1343.2	1320.1	1379.5	1431.4	1483.4	1740.3	1724.1	1403.4
25°	1517.7	1494.7	1455.9	1429.4	1416.2	1437.3	1483.4	1530.0	1778.0	1792.7	1445.2
27.5°	1648.1	1611.8	1592.7	1547.1	1529.4	1517.2	1559.3	1606.4	1822.1	1899.6	1467.7
30°	1796.1	1789.8	1755.5	1696.6	1653.0	1630.4	1669.2	1715.8	1903.0	2008.9	1519.6
32.5°	2060.9	2003.0	1956.5	1884.4	1813.3	1765.3	1803.5	1834.4	2037.4	2123.1	1576.6
35°	2346.7	2328.0	2247.6	2117.7	2008.9	1965.8	1988.4	2011.4	2193.7	2297.6	1672.1
37.5°	2627.6	2602.1	2535.9	2426.6	2294.2	2206.5	2222.6	2249.6	2369.2	2532.9	1788.8
40°	2829.5	2798.1	2764.9	2748.6	2617.3	2497.1	2487.8	2494.7	2606.5	2753.6	1918.2
42.5°	2844.2	2882.9	2893.3	2958.4	2927.6	2829.1	2771.7	2773.2	2833.0	2971.7	2049.1
45°	2813.3	2777.5	2853.6	3031.5	3133.5	3179.5	3083.0	3070.7	2973.1	3098.2	2114.3
47.5°	2489.3	2499.1	2627.6	2908.9	3203.6	3409.4	3386.9	3346.2	3048.1	3093.7	2104.0
50°	1967.8	2027.0	2146.1	2496.7	3007.5	3445.7	3578.5	3484.4	3003.5	2972.2	1999.1
52.5°	1310.4	1334.9	1413.3	1865.7	2418.2	3080.0	3358.0	3379.5	2962.4	2812.8	1866.3
55°	583.3	581.4	691.7	974.5	1517.2	2343.8	2743.7	2875.1	2804.0	2650.6	1736.9
57.5°	247.0	255.4	300.5	421.1	746.1	1414.3	1858.9	1974.1	2156.5	2176.6	1332.4
60°	167.2	168.1	180.4	210.8	312.3	664.2	975.1	1113.3	1243.6	1234.9	706.9
62.5°	131.4	134.8	144.2	156.4	185.3	301.5	436.3	513.3	521.6	438.7	268.2
65°	112.3	112.8	122.1	132.3	145.1	175.5	210.3	214.2	216.7	208.8	197.1
67.5°	92.6	93.6	101.0	112.8	124.5	134.3	144.2	149.0	160.3	182.4	179.4
70°	73.5	75.0	81.4	91.1	101.9	107.8	120.1	124.5	134.8	152.0	158.8
72.5°	55.9	56.4	61.8	68.7	78.5	84.3	94.6	99.5	106.4	121.1	127.5
75°	40.2	41.7	45.6	49.0	50.5	54.4	64.2	69.6	79.4	85.8	86.3
77.5°	21.1	22.1	23.0	23.0	28.0	35.3	41.7	44.6	51.4	56.4	53.9
80°	8.3	8.8	11.3	15.2	19.6	25.5	29.9	31.4	37.3	40.2	41.7
82.5°	4.9	5.4	7.4	10.8	14.3	18.2	21.5	23.0	26.9	30.4	31.4
85°	2.4	3.0	4.4	6.9	9.3	11.3	10.8	10.3	10.3	9.8	10.3
87.5°	1.0	1.0	1.5	1.5	1.5	2.0	2.4	2.4	2.4	3.0	3.0
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°	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6
2.5°	1148.1	1128.5	1110.4	1077.0	1040.8	1030.4	988.3	973.1	962.3	949.5	945.6
5°	1154.0	1128.0	1069.7	1002.5	949.1	880.4	835.3	786.8	751.5	742.7	740.2
7.5°	1166.2	1121.6	1021.1	919.6	810.3	717.1	646.1	607.8	574.0	572.1	568.6
10°	1180.0	1102.5	968.2	808.8	669.2	582.9	540.2	523.5	515.2	513.3	512.2
12.5°	1191.3	1098.5	908.8	701.0	569.2	517.2	504.4	503.0	506.4	507.4	509.3
15°	1196.1	1082.9	837.3	604.4	506.9	487.7	493.1	499.0	501.5	507.9	503.0
17.5°	1205.4	1062.8	749.0	528.0	472.1	475.5	484.8	491.7	495.6	500.0	493.7
20°	1210.4	1044.7	666.2	482.4	459.9	466.2	479.0	484.4	489.2	491.2	483.8
22.5°	1205.9	1007.4	593.1	445.6	448.0	456.4	467.7	473.6	470.6	462.8	458.4
25°	1194.2	954.9	517.2	422.0	431.4	446.1	454.9	450.5	445.1	440.7	439.3
27.5°	1193.7	890.7	462.3	400.5	417.2	437.3	434.3	430.4	432.8	429.4	425.5
30°	1196.1	828.5	417.2	388.2	406.8	416.7	420.1	416.2	419.1	412.8	414.8
32.5°	1183.3	767.7	387.7	374.0	394.6	394.2	405.4	408.3	401.5	388.2	390.2
35°	1188.8	718.6	362.8	367.7	380.9	380.9	389.7	386.3	368.2	360.3	362.3
37.5°	1226.0	670.6	350.5	358.8	367.7	371.6	368.6	353.9	349.5	349.5	350.5
40°	1261.3	629.5	343.2	356.9	355.4	357.8	336.3	337.8	337.8	338.3	335.8
42.5°	1292.7	601.5	337.2	345.1	347.6	334.8	321.6	320.1	323.5	323.1	321.1
45°	1304.0	578.5	328.9	331.9	333.9	312.7	306.4	303.4	307.3	308.8	310.8
47.5°	1260.9	559.3	319.6	313.7	309.8	296.1	287.8	282.3	287.3	295.6	297.5
50°	1205.4	534.3	304.9	293.6	285.3	279.5	273.5	268.2	271.5	277.5	276.0
52.5°	1123.6	495.1	286.3	274.5	260.3	261.8	256.4	253.5	255.4	255.4	253.9
55°	1006.9	406.8	254.9	246.6	234.8	238.7	239.7	235.8	231.8	235.3	232.4
57.5°	687.3	287.3	227.5	227.5	215.7	221.1	220.6	211.3	201.9	203.0	201.0
60°	397.5	228.9	209.8	207.9	195.6	200.0	201.0	194.7	180.4	181.3	179.4
62.5°	226.0	195.6	183.4	180.4	178.0	181.9	181.9	173.5	161.3	162.2	160.3
65°	192.1	181.3	163.7	163.3	162.2	163.3	159.3	150.5	139.7	135.3	135.8
67.5°	174.5	167.6	150.5	146.1	143.1	142.7	135.3	127.0	122.1	118.2	117.7
70°	152.9	147.5	134.8	129.0	126.0	119.1	111.7	106.4	99.5	97.6	99.5
72.5°	121.1	120.6	115.7	109.3	103.0	97.6	91.1	83.9	77.4	76.0	72.6
75°	83.9	84.8	85.8	84.8	79.4	72.6	65.2	59.4	51.4	47.1	46.1
77.5°	54.9	56.4	57.9	55.9	52.5	46.1	41.2	33.8	28.0	24.5	24.0
80°	40.2	42.1	43.1	41.7	37.7	32.8	27.5	21.5	17.1	14.3	14.3
82.5°	30.9	32.8	33.8	31.4	27.5	23.6	19.6	15.2	11.7	9.3	8.8
85°	10.8	10.3	12.3	12.8	15.2	14.3	11.7	8.8	6.9	4.9	4.4
87.5°	3.0	3.0	3.4	3.4	3.0	2.4	2.4	2.4	2.0	1.5	1.5
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)