

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: P648516

Luminaire Tested: **GALN-SA6B-835-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-835-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19112.3 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G4

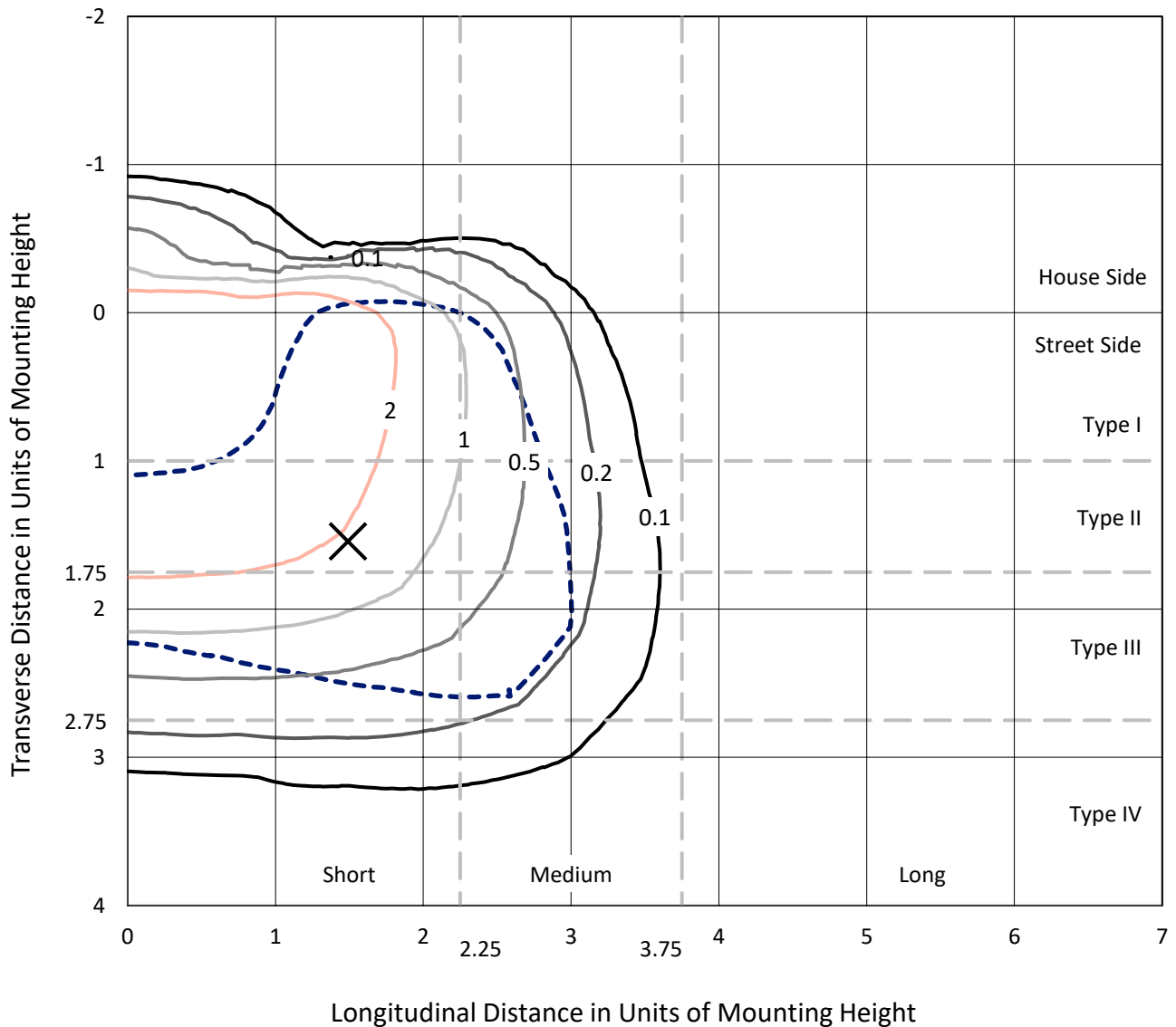
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

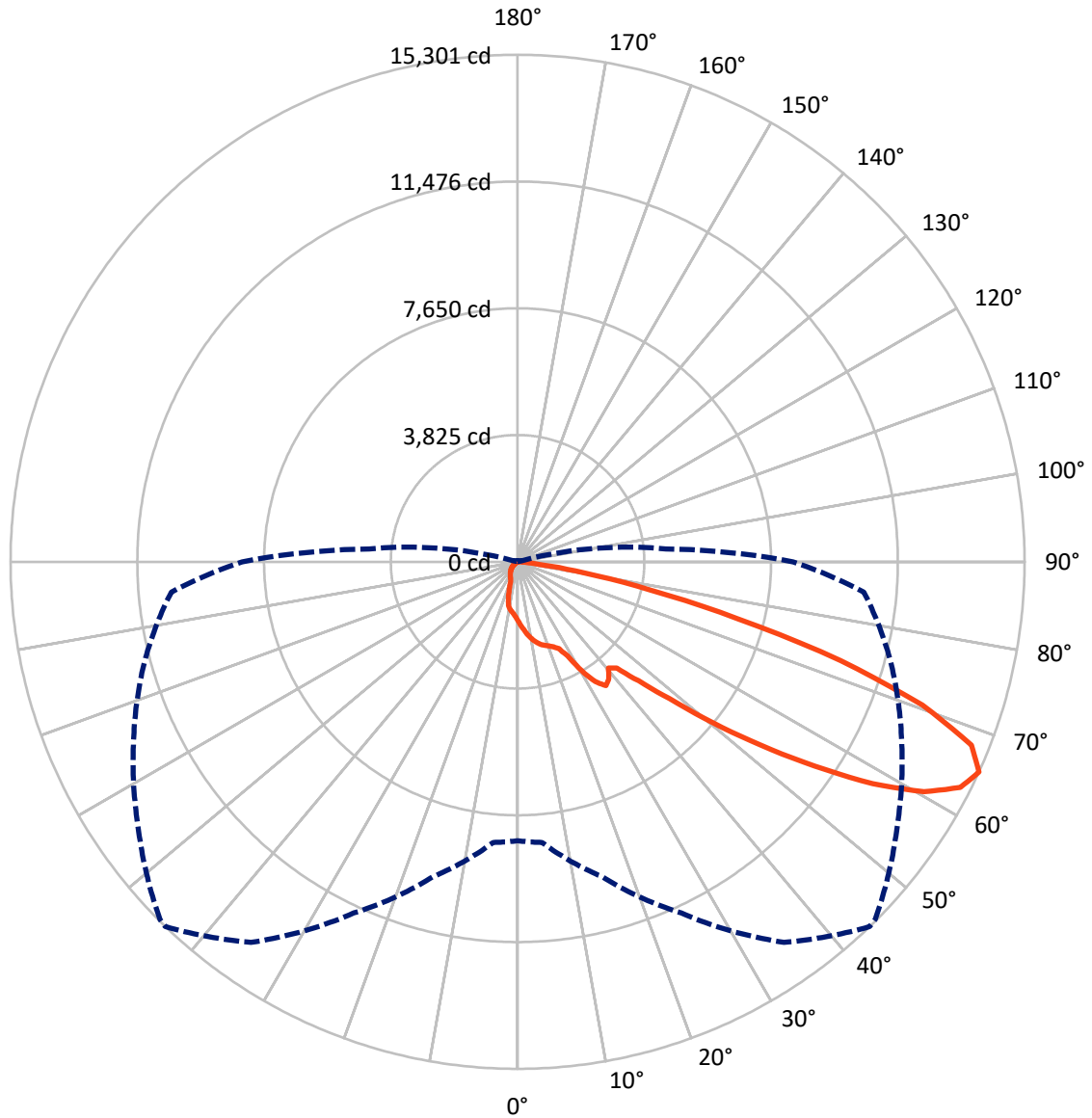
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1760.9	0.0	1760.9
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	17351.3	0.0	17351.3
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	19112.3	0.0	19112.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.9	0.9
10°-20°	532.5	2.8
20°-30°	902.9	4.7
30°-40°	1501.2	7.9
40°-50°	2621.1	13.7
50°-60°	5120.7	26.8
60°-70°	5941.2	31.1
70°-80°	2163.5	11.3
80°-90°	152.4	0.8
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°	19112.3	100.0
0°-180°	19112.3	100.0

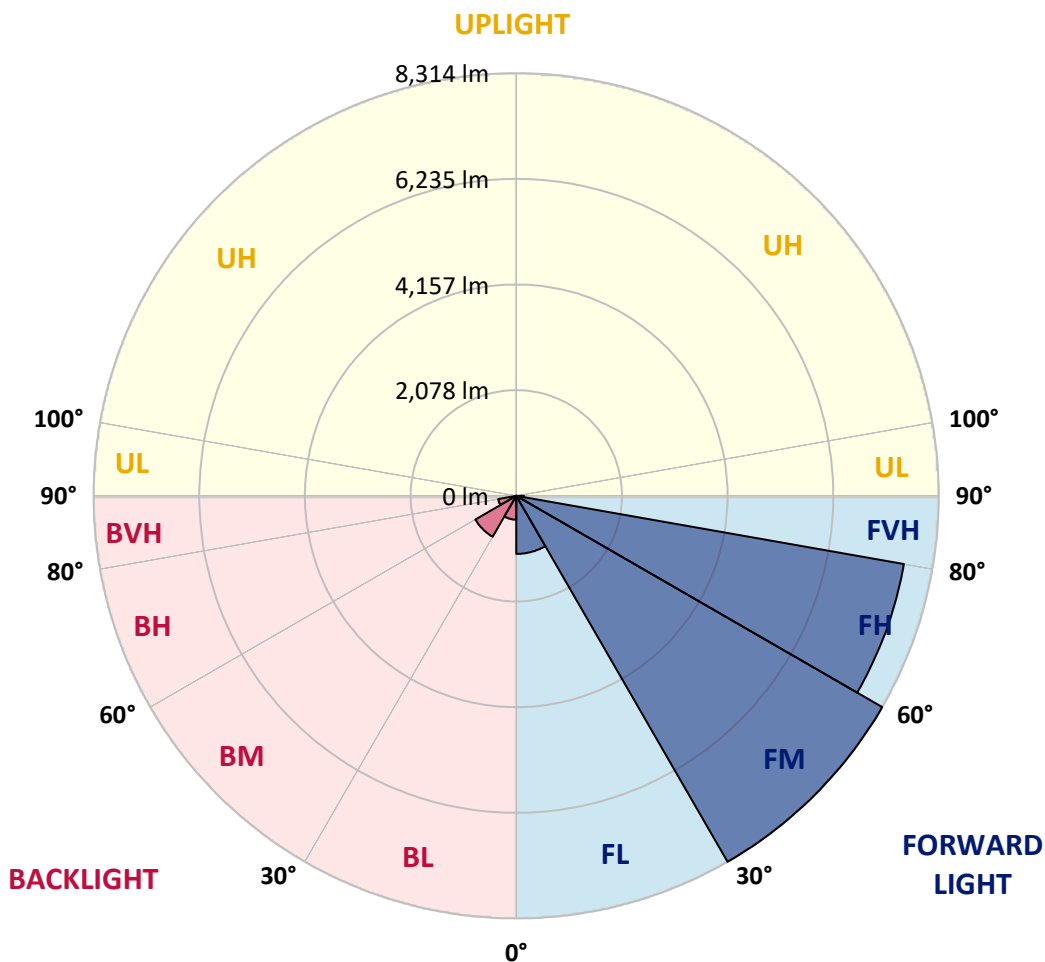


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1143.1	6.0			
FM (30°-60°)	8313.9	43.5			
FH (60°-80°)	7744.0	40.5			G4/12000
FVH (80°-90°)	150.4	0.8			G2/225
BL (0°-30°)	469.2	2.5	B1/500		
BM (30°-60°)	929.1	4.9	B1/1000		
BH (60°-80°)	360.6	1.9	B1/500		G1/500
BVH (80°-90°)	2.1	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7
2.5°	2002.2	1993.4	1989.1	1965.7	1948.2	1926.3	1926.3	1898.5	1866.4	1831.4	1799.3
5°	2225.7	2211.0	2192.1	2171.7	2130.8	2072.3	2072.3	2013.9	1946.7	1886.9	1821.1
7.5°	2440.4	2427.2	2395.0	2355.7	2288.5	2227.2	2222.8	2138.1	2057.7	1967.2	1873.7
10°	2628.8	2618.5	2590.8	2514.8	2444.8	2364.4	2362.9	2268.0	2174.5	2063.6	1948.2
12.5°	2760.2	2761.6	2725.2	2652.1	2561.6	2485.6	2479.8	2386.3	2288.5	2168.7	2027.0
15°	2853.6	2853.6	2815.7	2733.9	2652.1	2584.9	2579.1	2497.3	2396.5	2266.6	2113.2
17.5°	2880.0	2888.7	2847.8	2774.8	2709.0	2650.6	2649.2	2580.5	2500.2	2374.6	2200.9
20°	2869.7	2878.5	2846.4	2789.4	2744.1	2710.5	2706.1	2678.4	2603.9	2485.6	2294.3
22.5°	2847.8	2856.5	2833.2	2799.6	2777.7	2787.9	2780.6	2804.0	2764.5	2621.4	2405.3
25°	2852.2	2860.9	2843.4	2824.4	2843.4	2906.2	2925.2	3026.0	2990.9	2793.7	2525.0
27.5°	2989.5	3007.0	2982.1	2990.9	3058.1	3204.1	3240.7	3414.4	3259.6	3012.8	2712.0
30°	3294.7	3283.0	3236.3	3278.7	3512.3	3821.9	3811.6	3783.9	3541.5	3265.5	2934.0
32.5°	3572.2	3561.9	3559.0	3741.6	4165.1	4315.5	4308.2	4039.5	3794.2	3554.7	3153.1
35°	3684.6	3645.2	3636.4	4079.0	4787.3	4588.6	4543.4	4144.7	4100.8	3870.1	3376.5
37.5°	4023.4	3995.6	3859.9	4134.4	4539.0	4473.2	4438.2	4325.8	4427.9	4149.0	3629.1
40°	4721.5	4644.1	4521.4	4252.7	4187.0	4214.7	4249.8	4557.9	4815.0	4530.2	3966.4
42.5°	5589.0	5571.4	5343.7	4842.7	4350.6	4388.6	4433.8	5042.8	5371.4	5104.1	4517.0
45°	6630.3	6655.1	6326.5	5735.0	5089.5	5121.7	5187.4	5758.4	6124.9	5996.4	5383.0
47.5°	7576.6	7557.6	7446.6	6831.8	6236.0	6164.4	6271.0	6677.0	7167.7	7188.2	6457.9
50°	8528.8	8629.6	8464.5	8223.5	7781.1	7630.6	7591.2	7789.8	8537.6	8439.7	7749.0
52.5°	9897.2	9949.8	9640.1	9578.8	9679.6	9191.8	9152.4	9200.6	9869.5	9533.6	8715.7
55°	10757.4	10726.7	10611.4	11090.3	11489.0	10880.1	10830.4	10636.2	10975.0	10306.1	9646.0
57.5°	11029.0	11072.9	11341.5	12207.6	13151.0	12634.0	12543.5	11991.4	11772.4	11026.1	10501.8
60°	10907.8	10988.2	11567.9	12856.0	14164.5	14087.1	14009.7	13082.4	12344.9	11627.8	11102.1
62.5°	10044.7	10157.2	11084.5	12740.6	14507.7	14991.1	14894.7	13762.9	12726.0	11919.8	11207.2
65°	8417.8	8501.0	9832.9	11693.5	14019.9	15300.8	15265.7	13976.2	12785.9	11652.6	10487.2
67.5°	6000.8	6284.1	7518.2	9854.8	12577.1	14772.1	14831.9	13720.6	12223.6	10497.4	8685.0
70°	3772.3	3965.0	4850.1	7055.2	10082.7	12959.7	13156.8	12550.8	10608.4	8182.7	5813.9
72.5°	1799.3	1942.3	2573.3	4465.9	7116.6	10196.6	10352.8	10303.2	8203.1	5155.3	2999.7
75°	801.8	855.8	1228.2	2279.7	4594.5	6853.7	7258.3	7325.4	5126.1	2522.1	1166.9
77.5°	408.9	410.4	575.4	1104.1	2294.3	4089.1	4169.5	4404.6	2779.2	1111.4	406.0
80°	217.6	232.2	305.2	521.4	1190.2	2013.9	2003.7	2202.3	1232.6	544.7	135.9
82.5°	97.9	108.1	172.3	273.1	581.2	763.8	823.6	901.1	528.7	347.6	59.9
85°	29.2	35.1	84.7	137.3	210.3	220.5	246.8	318.4	299.4	246.8	30.7
87.5°	4.4	4.4	35.1	38.0	30.7	39.5	40.9	45.3	96.4	90.5	16.1
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°	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7
2.5°	1781.7	1771.5	1735.0	1704.3	1678.0	1661.9	1643.0	1631.3	1625.4	1621.0	1622.5
5°	1789.0	1764.2	1701.4	1651.7	1613.8	1572.9	1545.1	1529.0	1521.8	1510.1	1510.1
7.5°	1829.9	1790.5	1702.9	1626.9	1561.1	1505.7	1453.1	1434.1	1421.0	1418.1	1415.1
10°	1888.3	1838.6	1718.9	1613.8	1520.3	1444.3	1369.9	1304.2	1253.0	1222.3	1218.0
12.5°	1961.3	1889.8	1743.7	1605.0	1485.3	1350.9	1153.8	1020.8	931.8	904.0	908.4
15°	2028.5	1951.1	1768.6	1597.7	1421.0	1120.2	896.7	744.8	699.5	695.1	696.6
17.5°	2108.9	2016.9	1797.8	1587.5	1244.3	855.8	665.9	625.1	633.8	648.4	647.0
20°	2192.1	2086.9	1832.8	1526.1	993.1	644.0	588.6	592.9	606.0	619.2	622.2
22.5°	2281.2	2167.3	1873.7	1378.6	757.9	560.8	557.9	563.7	576.8	591.5	594.4
25°	2403.8	2268.0	1904.4	1185.9	573.9	518.4	524.3	534.5	546.2	562.3	565.2
27.5°	2561.6	2403.8	1920.5	934.7	496.6	480.4	481.9	496.6	511.1	525.8	525.8
30°	2766.0	2566.0	1888.3	706.8	458.6	444.0	438.1	446.9	465.9	480.4	481.9
32.5°	2948.5	2719.3	1803.6	540.3	430.8	410.4	395.8	397.2	404.5	413.3	414.8
35°	3131.1	2868.3	1659.0	454.2	401.6	378.3	356.3	344.7	338.8	334.4	338.8
37.5°	3364.8	3053.7	1466.2	413.3	376.8	347.6	316.9	292.1	271.6	258.5	261.4
40°	3665.6	3310.8	1238.4	387.0	353.4	318.4	277.5	245.3	210.3	198.6	192.8
42.5°	4162.2	3700.7	999.0	365.1	330.0	287.7	236.6	192.8	160.7	148.9	151.9
45°	4946.4	4192.8	769.6	341.7	306.7	254.1	198.6	151.9	125.6	119.7	122.7
47.5°	5986.2	4829.5	592.9	315.5	277.5	217.6	156.3	119.7	103.7	102.3	100.8
50°	6964.7	5422.5	495.1	286.3	242.4	181.1	128.5	100.8	90.5	89.1	89.1
52.5°	7849.7	5847.5	403.1	252.7	204.4	148.9	108.1	89.1	80.3	76.0	76.0
55°	8636.9	6124.9	327.1	211.7	160.7	118.3	93.5	80.3	70.1	64.3	62.8
57.5°	9231.3	6158.5	245.3	169.4	119.7	92.0	80.3	70.1	58.4	51.1	48.2
60°	9485.3	5868.0	181.1	128.5	89.1	73.1	64.3	56.9	43.8	36.5	35.1
62.5°	9229.8	5302.8	134.4	97.9	68.7	54.0	45.3	42.4	30.7	21.9	20.4
65°	8314.1	4486.4	106.6	74.5	51.1	39.5	29.2	27.7	18.9	10.3	8.8
67.5°	6660.9	3513.7	84.7	55.5	36.5	26.3	18.9	17.5	10.3	2.9	2.9
70°	4331.6	2246.1	68.7	40.9	23.3	17.5	11.7	8.8	5.9	1.5	0.0
72.5°	2142.4	1050.0	55.5	32.1	16.1	8.8	4.4	2.9	4.4	0.0	0.0
75°	831.0	373.9	40.9	21.9	8.8	4.4	2.9	0.0	1.5	0.0	0.0
77.5°	276.0	124.1	24.8	11.7	5.9	2.9	0.0	0.0	0.0	0.0	0.0
80°	102.3	48.2	13.2	7.3	2.9	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	40.9	18.9	8.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.4	11.7	5.9	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.6	8.8	5.9	4.4	2.9	1.5	0.0	0.0	0.0	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)