

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: P528451

Luminaire Tested: **GALN-SA3C-735-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528451  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-735-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11675 lumens  
Efficiency: N/A  
Efficacy: 73.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

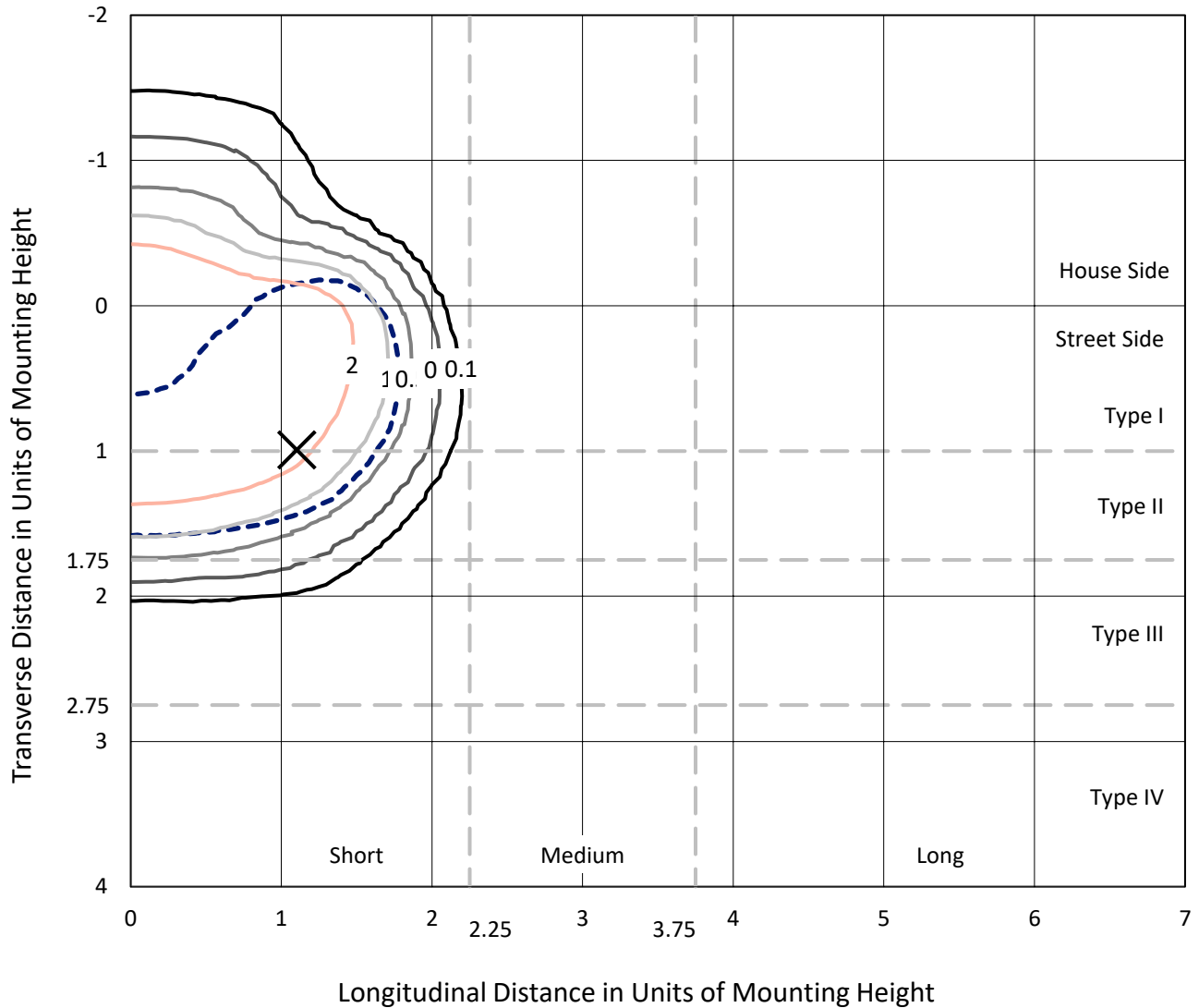
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

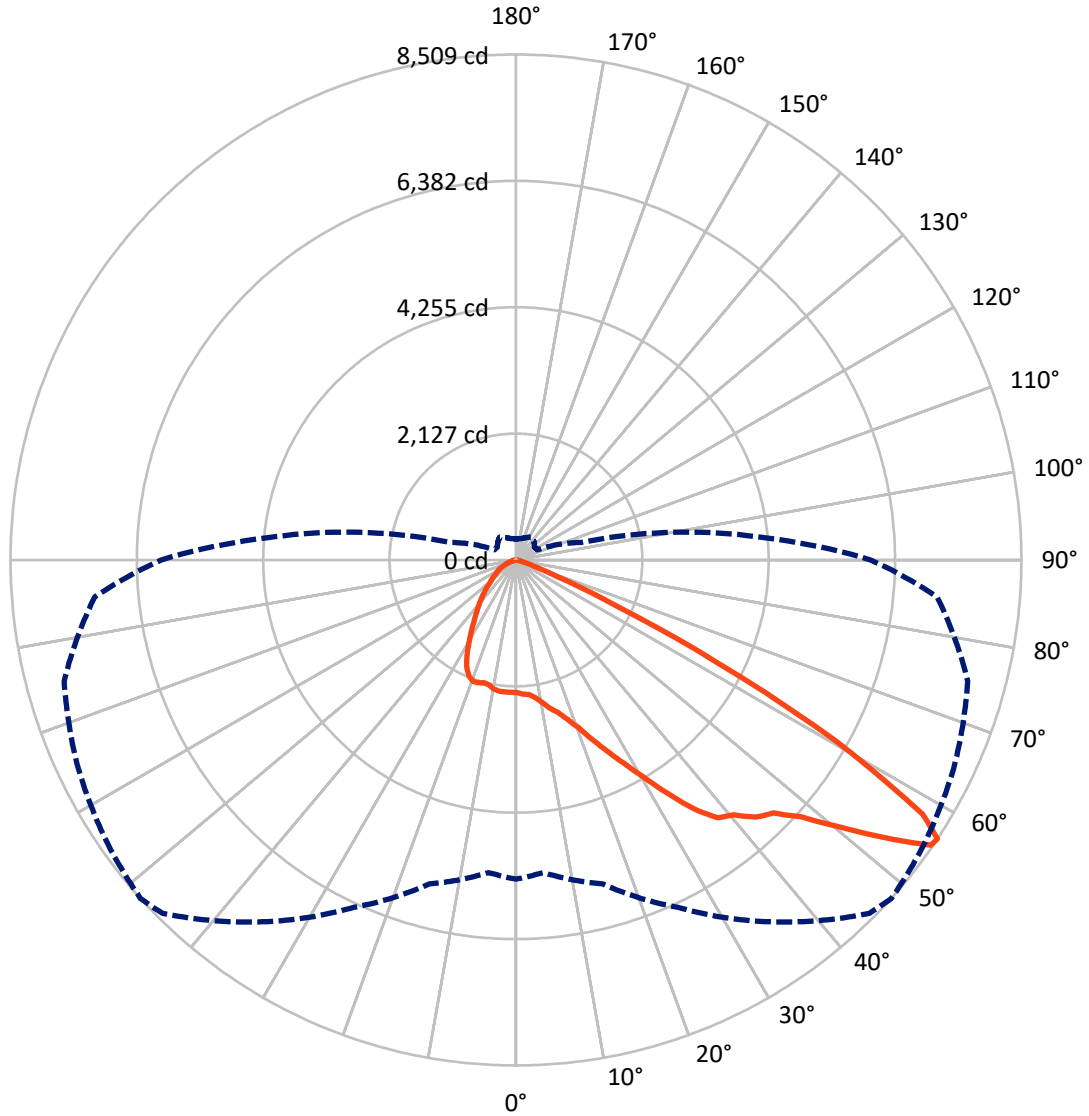
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2539.1	0.0	2539.1
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	9135.9	0.0	9135.9
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	11675.0	0.0	11675.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.2	1.9
10°-20°	694.2	5.9
20°-30°	1259.1	10.8
30°-40°	1977.8	16.9
40°-50°	2885.3	24.7
50°-60°	3476.3	29.8
60°-70°	1017.8	8.7
70°-80°	129.1	1.1
80°-90°	18.1	0.2
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°	11675.0	100.0
0°-180°	11675.0	100.0

**Coefficient of Utilization**

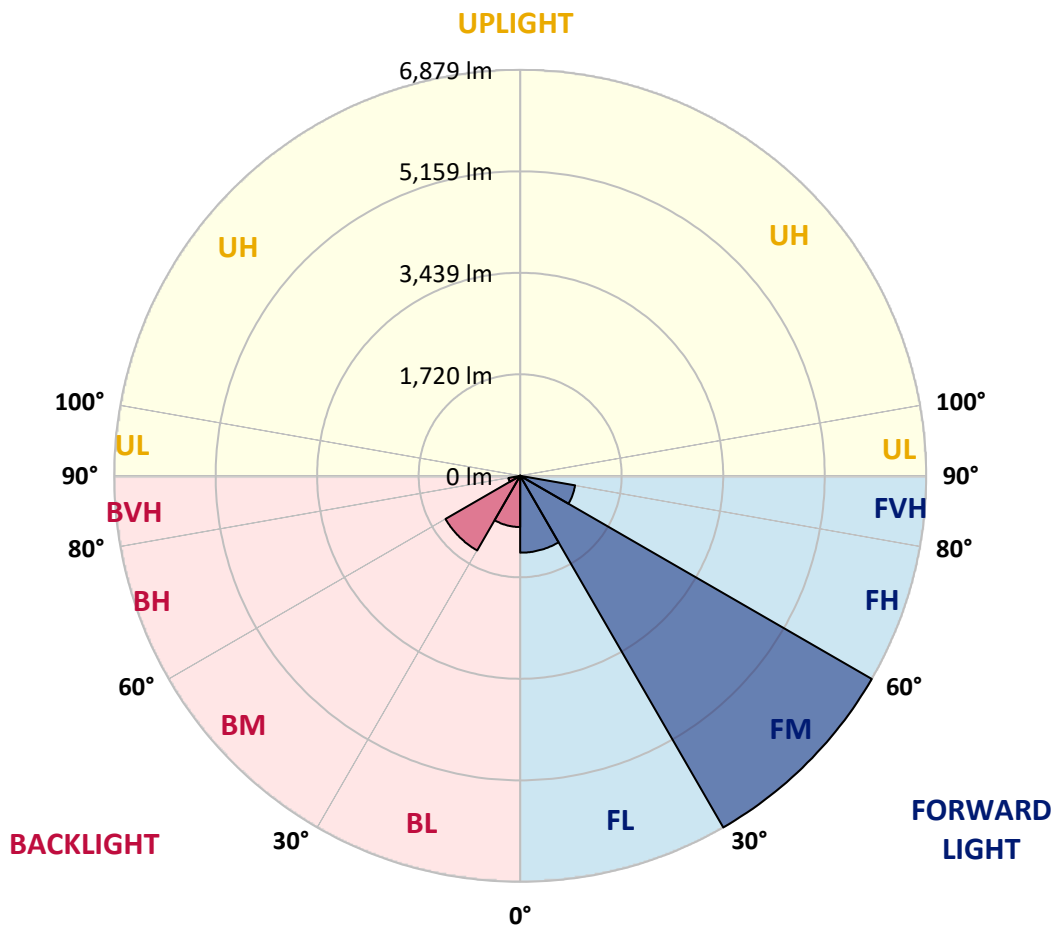


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1302.7	11.2			
FM (30°-60°)	6878.9	58.9			
FH (60°-80°)	945.2	8.1			G1/1800
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	867.9	7.4	B2/1000		
BM (30°-60°)	1460.5	12.5	B2/2500		
BH (60°-80°)	201.8	1.7	B1/500		G1/500
BVH (80°-90°)	9.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2229.9	2229.9	2229.9	2229.9	2229.9	2229.9	2229.9	2229.9	2229.9	2229.9	2229.9
2.5°	2270.3	2259.7	2259.7	2242.7	2261.8	2253.3	2259.7	2238.4	2259.7	2227.8	2253.3
5°	2280.9	2283.1	2274.6	2285.2	2285.2	2298.0	2276.7	2295.8	2306.5	2283.1	2272.4
7.5°	2336.2	2340.5	2338.3	2329.8	2346.8	2344.7	2342.6	2327.7	2332.0	2323.5	2310.7
10°	2444.6	2442.5	2453.1	2431.9	2419.1	2434.0	2438.3	2414.9	2397.9	2391.5	2351.1
12.5°	2601.9	2576.4	2561.5	2540.3	2546.7	2525.4	2563.7	2523.3	2514.8	2476.5	2436.1
15°	2729.5	2725.2	2727.4	2693.3	2655.1	2663.6	2663.6	2642.3	2629.6	2582.8	2525.4
17.5°	2991.0	2901.7	2920.8	2878.3	2846.4	2844.3	2825.1	2829.4	2795.4	2697.6	2610.4
20°	3195.0	3156.8	3127.0	3054.7	3005.8	3020.7	3012.2	2991.0	2980.3	2852.8	2729.5
22.5°	3377.8	3390.6	3341.7	3322.6	3254.5	3260.9	3277.9	3258.8	3178.0	3046.2	2863.4
25°	3635.1	3620.2	3554.3	3530.9	3467.1	3490.5	3556.4	3541.5	3490.5	3252.4	2967.6
27.5°	3939.0	3888.0	3900.8	3794.5	3732.8	3798.7	3877.4	3951.8	3807.2	3494.8	3090.9
30°	4153.7	4100.6	4096.4	4092.1	4077.2	4153.7	4245.2	4313.2	4196.3	3737.1	3294.9
32.5°	4260.0	4272.8	4308.9	4296.2	4425.8	4583.2	4678.8	4776.6	4629.9	4132.5	3564.9
35°	4542.8	4462.0	4542.8	4551.3	4685.2	5018.9	5140.1	5373.9	5337.8	4691.6	3894.4
37.5°	4708.6	4702.2	4712.8	4793.6	4923.3	5335.7	5507.9	5688.6	5620.5	5027.4	4304.7
40°	4982.8	4999.8	4997.7	5059.3	5201.8	5573.8	5643.9	5790.6	5797.0	5493.0	4908.4
42.5°	5422.8	5354.8	5310.2	5373.9	5573.8	5780.0	5920.3	5890.5	6101.0	6058.4	5684.3
45°	5818.2	5858.6	5792.7	5899.0	5971.3	6081.8	6077.6	6141.3	6409.2	6611.1	6268.9
47.5°	6188.1	6213.6	6245.5	6317.8	6475.1	6492.1	6456.0	6428.3	6798.2	7006.5	6721.7
50°	6409.2	6432.6	6581.4	6711.0	7004.4	7042.7	7063.9	6993.8	7244.6	7268.0	7149.0
52.5°	6349.7	6375.2	6583.5	7010.8	7478.4	7829.2	7765.4	7646.4	7631.5	7722.9	7544.3
55°	5822.5	5799.1	6086.1	6751.4	7627.3	8469.1	8477.6	8352.1	8111.9	8050.3	7484.8
56°	5373.9	5282.5	5648.2	6451.7	7435.9	8413.8	8509.4	8375.5	8150.2	7873.8	7117.1
57.5°	4402.5	4489.6	4853.1	5518.5	6774.8	8016.3	8071.5	8039.7	7869.6	7406.2	6262.5
60°	2427.6	2580.7	2901.7	3715.8	4823.4	6152.0	6196.6	6456.0	6487.8	5671.5	4308.9
62.5°	1031.0	1014.0	1347.7	1947.2	2746.5	3713.7	3796.6	4062.3	4111.2	3269.4	2161.9
65°	418.8	442.2	610.1	980.0	1451.9	1692.1	1809.0	1896.2	2057.7	1349.9	797.2
67.5°	276.3	274.2	359.3	559.1	782.3	754.6	754.6	797.2	737.6	550.6	344.4
70°	197.7	204.1	257.2	386.9	486.8	361.4	346.5	331.6	376.3	363.5	278.5
72.5°	129.7	138.2	172.2	231.7	253.0	197.7	197.7	238.1	310.4	293.4	227.5
75°	85.0	87.2	106.3	133.9	125.4	102.0	112.7	159.4	225.3	216.8	161.6
77.5°	57.4	59.5	72.3	87.2	70.2	57.4	61.6	80.8	110.5	110.5	85.0
80°	21.3	23.4	29.8	27.6	31.9	40.4	44.6	55.3	65.9	65.9	57.4
82.5°	0.0	2.1	6.4	14.9	23.4	31.9	36.1	42.5	48.9	55.3	53.1
85°	0.0	2.1	6.4	10.6	17.0	19.1	21.3	14.9	12.8	12.8	10.6
87.5°	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.3	2.1	2.1
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°	2229.9	2229.9	2229.9	2229.9	2229.9	2229.9	2229.9	2229.9	2229.9	2229.9	2229.9
2.5°	2229.9	2227.8	2227.8	2221.4	2234.2	2227.8	2232.1	2229.9	2202.3	2223.6	2208.7
5°	2253.3	2268.2	2244.8	2240.6	2223.6	2229.9	2229.9	2208.7	2227.8	2225.7	2221.4
7.5°	2312.8	2287.3	2261.8	2236.3	2232.1	2225.7	2202.3	2193.8	2208.7	2191.7	2217.2
10°	2338.3	2342.6	2304.3	2270.3	2238.4	2193.8	2161.9	2142.8	2119.4	2144.9	2159.8
12.5°	2455.3	2412.7	2346.8	2293.7	2185.3	2140.6	2108.8	2100.3	2140.6	2149.2	2134.3
15°	2495.7	2489.3	2404.2	2285.2	2172.5	2119.4	2125.8	2108.8	2113.0	2091.8	2096.0
17.5°	2578.6	2506.3	2406.4	2257.6	2170.4	2157.7	2119.4	2051.4	2013.1	1996.1	2011.0
20°	2670.0	2599.8	2455.3	2268.2	2189.5	2155.5	2030.1	1947.2	1868.5	1826.0	1828.2
22.5°	2750.7	2663.6	2434.0	2272.4	2206.5	2066.2	1915.3	1751.6	1653.8	1587.9	1590.1
25°	2848.5	2725.2	2442.5	2280.9	2161.9	1923.8	1707.0	1547.6	1430.6	1386.0	1400.9
27.5°	2903.8	2763.5	2489.3	2300.1	2045.0	1721.9	1488.0	1339.2	1271.2	1250.0	1247.8
30°	3069.6	2848.5	2546.7	2261.8	1849.4	1505.0	1288.2	1196.8	1130.9	1111.8	1116.0
32.5°	3316.2	3003.7	2621.1	2161.9	1649.6	1311.6	1158.5	1090.5	1028.9	992.7	988.5
35°	3522.4	3269.4	2699.7	2006.7	1417.9	1162.8	1067.1	982.1	888.6	848.2	837.6
37.5°	3915.7	3569.2	2682.7	1772.9	1196.8	1052.3	969.3	865.2	784.4	729.1	722.8
40°	4438.6	3919.9	2599.8	1488.0	1033.1	954.5	865.2	765.3	665.4	618.6	614.3
42.5°	5074.2	4349.3	2448.9	1198.9	869.4	856.7	775.9	661.1	571.8	537.8	539.9
45°	5590.8	4717.1	2295.8	963.0	748.3	761.0	690.9	582.5	520.8	493.2	493.2
47.5°	6049.9	4965.8	2130.0	795.0	635.6	665.4	603.7	539.9	486.8	465.5	461.3
50°	6492.1	5218.8	1964.2	644.1	542.1	571.8	565.5	514.4	471.9	446.4	448.5
52.5°	6768.4	5259.1	1753.8	527.2	474.0	508.1	529.3	482.5	435.8	420.9	416.7
55°	6430.4	4738.3	1360.5	433.7	401.8	446.4	486.8	433.7	397.5	372.0	369.9
56°	5975.5	4236.7	1137.3	399.6	380.5	429.4	471.9	414.5	374.1	359.3	348.6
57.5°	5059.3	3467.1	839.7	355.0	352.9	399.6	448.5	395.4	348.6	335.9	335.9
60°	3154.6	1951.5	508.1	297.6	306.1	355.0	403.9	352.9	310.4	310.4	316.7
62.5°	1437.0	812.0	308.2	253.0	263.6	306.1	359.3	318.9	295.5	318.9	323.1
65°	488.9	350.8	223.2	201.9	208.3	253.0	308.2	323.1	321.0	335.9	344.4
67.5°	274.2	225.3	187.1	167.9	163.7	187.1	253.0	323.1	310.4	304.0	308.2
70°	231.7	191.3	165.8	148.8	142.4	150.9	195.6	244.5	219.0	212.6	208.3
72.5°	187.1	159.4	144.6	133.9	114.8	97.8	89.3	93.5	104.2	110.5	121.2
75°	131.8	121.2	121.2	108.4	82.9	61.6	48.9	40.4	27.6	19.1	21.3
77.5°	74.4	74.4	76.5	65.9	53.1	40.4	29.8	21.3	10.6	4.3	2.1
80°	51.0	55.3	59.5	53.1	44.6	36.1	25.5	14.9	6.4	0.0	0.0
82.5°	51.0	57.4	61.6	53.1	44.6	34.0	25.5	14.9	6.4	2.1	0.0
85°	10.6	12.8	14.9	17.0	25.5	25.5	19.1	12.8	6.4	2.1	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	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)