

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: P532127

Luminaire Tested: **GALN-SA7C-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532127  
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-SA7C-727-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30549 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

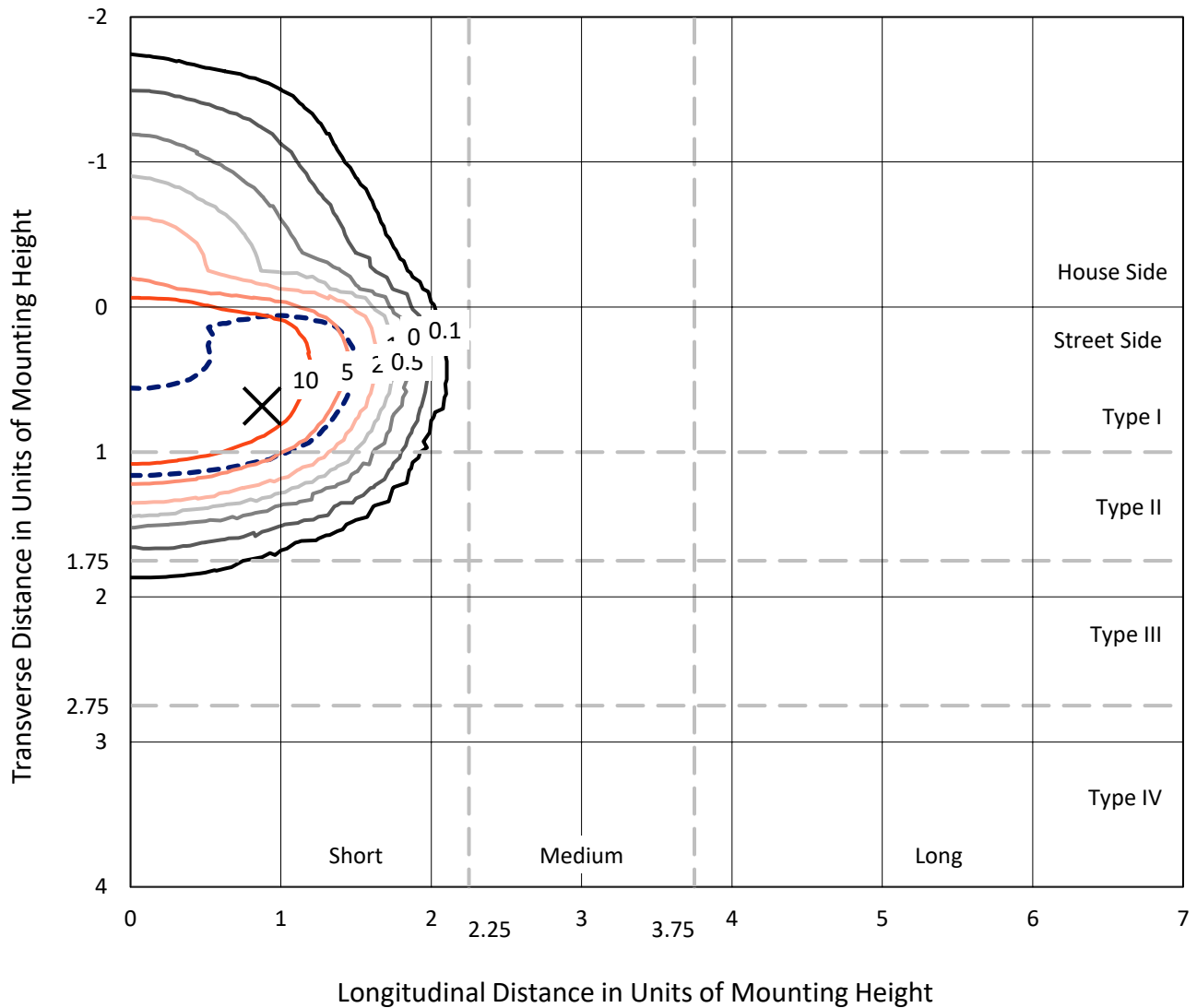
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

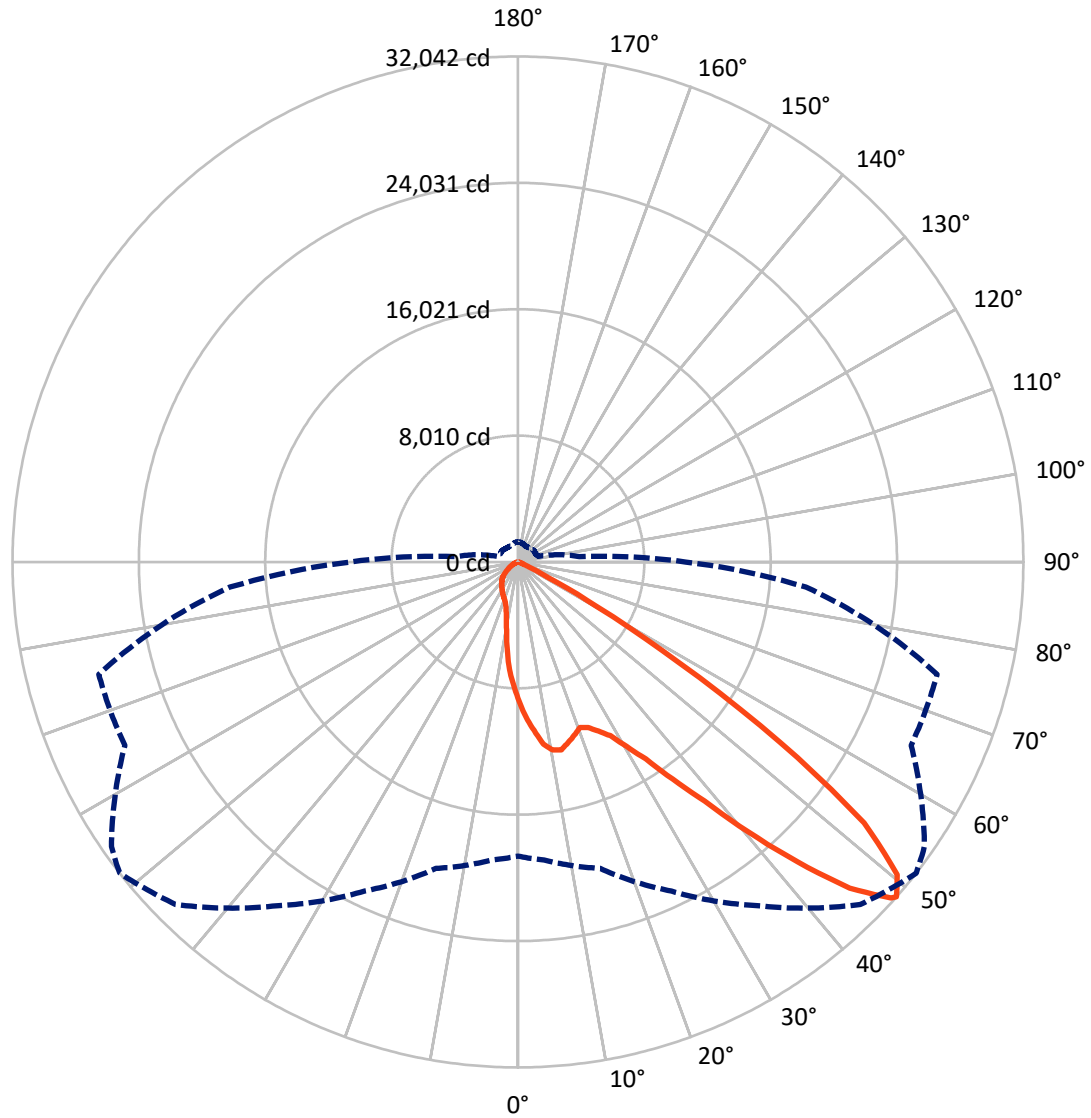
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 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	3719.6	0.0	3719.6
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	26829.4	0.0	26829.4
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	30549.0	0.0	30549.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	807.5	2.6
10°-20°	2110.2	6.9
20°-30°	3603.0	11.8
30°-40°	6634.9	21.7
40°-50°	10304.0	33.7
50°-60°	6201.3	20.3
60°-70°	717.2	2.3
70°-80°	138.8	0.5
80°-90°	32.1	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°	30549.0	100.0
0°-180°	30549.0	100.0

**Coefficient of Utilization**



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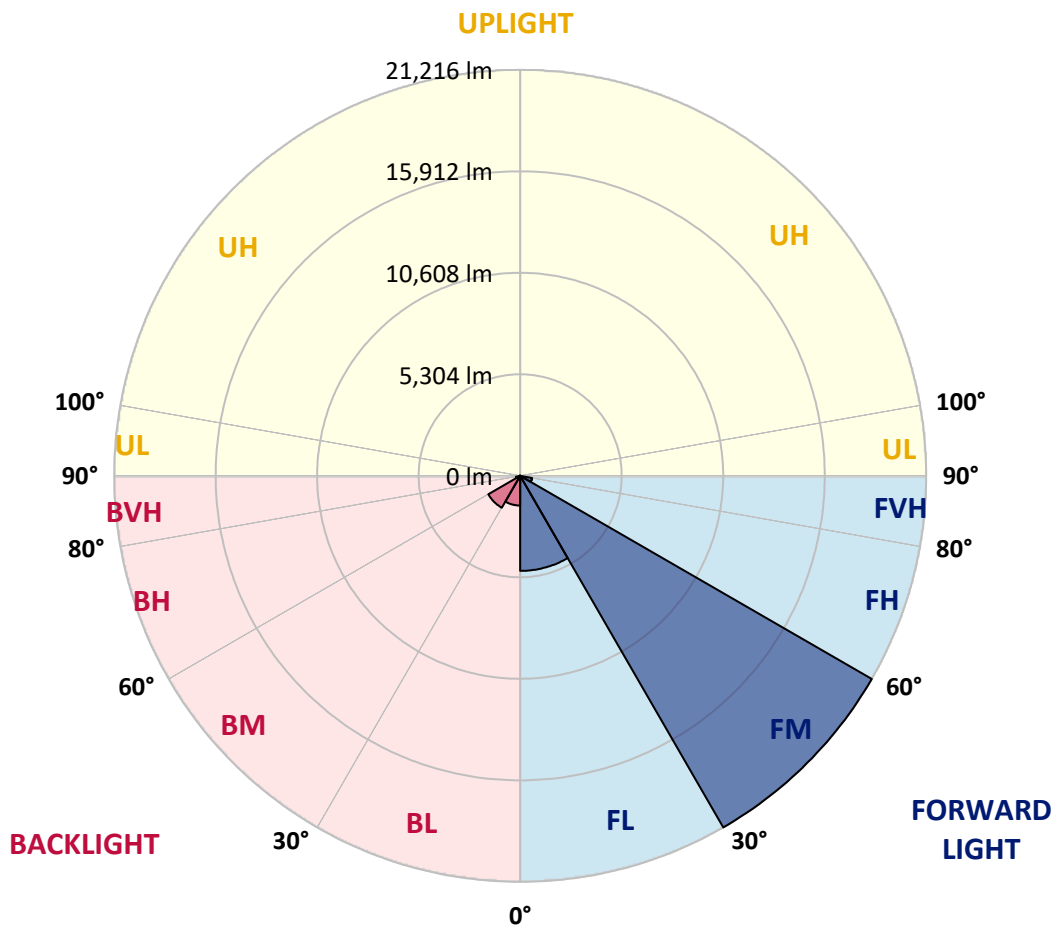
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4966.9	16.3			
FM (30°-60°)	21215.7	69.4			
FH (60°-80°)	631.6	2.1			G0/660
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	1553.8	5.1	B3/2500		
BM (30°-60°)	1924.5	6.3	B2/2500		
BH (60°-80°)	224.5	0.7	B1/500		G1/500
BVH (80°-90°)	16.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8822.0	8822.0	8822.0	8822.0	8822.0	8822.0	8822.0	8822.0	8822.0	8822.0	8822.0
2.5°	10692.4	10447.5	10469.8	10309.5	10215.9	10064.5	9859.7	9819.6	9596.9	9294.1	8986.8
5°	11654.4	11596.5	11672.2	11440.6	11449.5	11200.1	10719.2	10728.1	10215.9	9721.6	9245.1
7.5°	11716.7	11583.1	11658.8	11863.7	11983.9	11939.4	11667.7	11431.7	10946.3	10220.4	9525.7
10°	10492.0	10745.9	10826.0	11164.5	11645.5	12153.1	12122.0	12135.3	11730.1	10781.5	9766.1
12.5°	9757.2	9588.0	9859.7	10064.5	10790.4	11774.6	12224.4	12322.4	12353.5	11324.8	10006.6
15°	9423.2	9423.2	9467.8	9525.7	10051.2	10959.6	11877.0	12162.0	12834.5	12037.3	10385.2
17.5°	9632.5	9623.6	9686.0	9565.7	9761.7	10460.9	11556.4	11881.5	13373.3	12736.5	10683.5
20°	10269.4	10300.5	10260.5	9913.1	9926.5	10452.0	11200.1	11712.3	13738.5	13342.2	11079.9
22.5°	11155.6	11173.4	10946.3	10567.7	10456.4	10714.7	11405.0	11796.9	14032.4	14068.1	11200.1
25°	12179.9	12108.6	12064.1	11529.7	11191.2	11413.9	11868.1	12095.2	14215.0	14691.5	11543.0
27.5°	13600.5	13458.0	13186.3	12709.8	12460.4	12144.2	12469.3	12843.4	14736.1	15564.4	11917.1
30°	15698.0	15573.3	15043.3	14428.8	13774.1	13462.4	13564.8	13769.7	15675.7	16575.3	12411.4
32.5°	18855.4	18592.6	17826.7	16655.4	15764.8	14905.3	14878.6	15096.8	16517.4	17973.6	12999.3
35°	22333.4	22253.3	21126.6	19919.7	18196.3	16869.2	16891.5	17007.3	18129.5	19808.4	13769.7
37.5°	24644.7	25085.6	24368.6	23072.7	21625.4	19728.2	19247.3	19287.4	20342.8	21981.6	15159.1
40°	26430.5	26056.4	26141.0	25838.2	24849.6	23558.1	22493.8	22284.5	22903.5	24386.4	16539.7
42.5°	25651.2	25669.0	26190.0	26907.0	27151.9	27058.4	25971.8	25575.5	25094.5	26354.8	17853.4
45°	23451.2	23909.9	24586.8	26483.9	28149.5	29712.6	29498.8	28839.8	26608.6	27913.5	18610.5
47.5°	19942.0	19924.2	21033.1	23500.2	27200.9	30861.6	31832.4	31369.2	27681.9	27739.8	18454.6
48°	18646.1	18966.7	20111.2	23014.8	26599.7	30692.3	32041.7	31458.3	27499.3	27508.2	18321.0
50°	13783.1	13725.2	15150.2	18712.9	23758.5	28839.8	31159.9	31614.2	27494.9	26337.0	17385.8
52.5°	7281.2	7530.6	8568.2	11765.7	16798.0	23602.6	27485.9	28194.0	26524.0	24422.1	16040.9
55°	3095.1	2796.7	3593.8	5312.8	9450.0	15769.2	20164.7	21741.1	22427.0	21612.0	14032.4
57.5°	1104.4	1206.9	1389.4	1999.5	3972.4	8630.6	12024.0	13248.7	15537.7	15858.3	9561.3
60°	708.1	721.4	779.3	917.4	1491.9	3326.6	5704.7	6680.0	7717.6	7967.0	4462.2
62.5°	547.8	552.2	578.9	601.2	708.1	1291.5	2142.1	2538.4	2636.4	2266.7	1171.2
65°	458.7	463.1	472.1	472.1	503.2	605.7	748.2	823.9	801.6	792.7	663.5
67.5°	351.8	360.7	378.5	378.5	396.3	369.6	414.2	440.9	498.8	605.7	565.6
70°	276.1	280.6	293.9	302.8	302.8	267.2	298.4	325.1	365.2	449.8	445.3
72.5°	213.8	222.7	231.6	231.6	218.2	182.6	213.8	236.0	262.7	311.7	302.8
75°	164.8	164.8	169.2	138.1	106.9	93.5	129.1	155.9	195.9	204.9	169.2
77.5°	44.5	49.0	44.5	40.1	44.5	66.8	84.6	98.0	124.7	124.7	111.3
80°	0.0	4.5	13.4	26.7	44.5	62.3	75.7	84.6	98.0	106.9	102.4
82.5°	0.0	4.5	13.4	26.7	40.1	49.0	66.8	71.3	80.2	93.5	93.5
85°	0.0	4.5	8.9	17.8	26.7	31.2	31.2	26.7	26.7	22.3	17.8
87.5°	0.0	0.0	4.5	8.9	8.9	13.4	13.4	13.4	13.4	13.4	13.4
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°	8822.0	8822.0	8822.0	8822.0	8822.0	8822.0	8822.0	8822.0	8822.0	8822.0	8822.0
2.5°	8866.6	8728.5	8519.2	8189.7	7873.5	7668.6	7472.7	7254.5	7134.2	7125.3	7058.5
5°	8973.5	8661.7	8163.0	7597.4	6991.7	6470.7	5945.2	5602.3	5295.0	5125.8	5094.6
7.5°	9031.4	8626.1	7820.0	6871.5	5838.3	4987.7	4399.9	3967.9	3798.7	3674.0	3669.5
10°	9151.6	8563.8	7307.9	5909.6	4631.5	3772.0	3366.7	3170.8	3077.3	3041.6	2988.2
12.5°	9240.7	8448.0	6782.4	4920.9	3660.6	3126.2	2948.1	2903.6	2908.0	2925.8	2903.6
15°	9365.3	8345.5	6074.3	4039.2	3072.8	2814.5	2814.5	2823.4	2885.8	2894.7	2890.2
17.5°	9356.4	8145.1	5344.0	3326.6	2716.5	2680.9	2694.3	2778.9	2819.0	2832.3	2801.1
20°	9463.3	7958.1	4591.4	2841.2	2516.1	2569.6	2658.6	2680.9	2729.9	2738.8	2703.2
22.5°	9432.1	7490.5	3892.2	2458.2	2364.7	2467.1	2556.2	2582.9	2569.6	2542.9	2538.4
25°	9374.3	7089.7	3250.9	2204.4	2253.4	2364.7	2449.3	2400.3	2373.6	2378.1	2382.5
27.5°	9271.8	6582.0	2721.0	2026.3	2102.0	2266.7	2262.3	2244.5	2271.2	2248.9	2271.2
30°	9254.0	6074.3	2284.6	1865.9	1990.6	2110.9	2119.8	2151.0	2182.1	2142.1	2182.1
32.5°	9280.7	5517.7	1972.8	1768.0	1923.8	1928.3	2026.3	2057.4	2035.2	1946.1	1955.0
35°	9485.6	5090.2	1745.7	1714.5	1817.0	1821.4	1914.9	1874.9	1776.9	1723.4	1754.6
37.5°	9917.6	4733.9	1638.8	1665.5	1674.5	1732.3	1736.8	1656.6	1665.5	1661.1	1678.9
40°	10469.8	4462.2	1563.1	1621.0	1612.1	1652.2	1491.9	1536.4	1576.5	1589.8	1598.7
42.5°	10848.3	4266.3	1514.1	1549.8	1531.9	1460.7	1371.6	1416.2	1447.3	1496.3	1505.2
45°	11017.5	4110.4	1456.2	1425.1	1425.1	1295.9	1260.3	1269.2	1340.5	1393.9	1385.0
47.5°	10741.4	3959.0	1353.8	1260.3	1291.5	1184.6	1144.5	1144.5	1220.2	1287.0	1273.7
48°	10634.5	3896.7	1358.3	1224.7	1246.9	1166.8	1126.7	1117.8	1202.4	1264.7	1264.7
50°	10104.6	3665.1	1242.5	1126.7	1082.2	1073.3	1046.5	1055.4	1108.9	1166.8	1166.8
52.5°	9071.4	3166.3	1051.0	966.4	886.2	939.7	953.0	935.2	961.9	1015.4	1010.9
55°	7570.7	2431.5	841.7	801.6	739.3	797.1	823.9	801.6	774.9	815.0	815.0
57.5°	4849.7	1309.3	672.5	681.4	619.0	676.9	699.2	645.7	596.7	627.9	623.5
60°	2186.6	783.8	552.2	538.9	498.8	565.6	601.2	538.9	472.1	494.3	516.6
62.5°	819.4	556.7	418.6	409.7	400.8	463.1	481.0	432.0	365.2	378.5	383.0
65°	601.2	489.9	334.0	302.8	320.6	365.2	356.3	307.3	262.7	262.7	271.7
67.5°	512.1	427.5	271.7	236.0	236.0	240.5	222.7	195.9	182.6	191.5	200.4
70°	400.8	338.5	213.8	182.6	164.8	147.0	129.1	124.7	111.3	124.7	120.2
72.5°	258.3	227.1	164.8	138.1	124.7	102.4	84.6	80.2	66.8	62.3	62.3
75°	138.1	138.1	129.1	111.3	98.0	80.2	66.8	53.4	35.6	26.7	26.7
77.5°	98.0	106.9	115.8	106.9	89.1	66.8	53.4	35.6	17.8	8.9	8.9
80°	93.5	106.9	115.8	102.4	89.1	66.8	49.0	26.7	13.4	4.5	4.5
82.5°	84.6	98.0	106.9	93.5	80.2	57.9	44.5	26.7	13.4	4.5	4.5
85°	17.8	22.3	26.7	26.7	31.2	40.1	31.2	22.3	8.9	4.5	4.5
87.5°	13.4	13.4	13.4	13.4	13.4	13.4	8.9	8.9	4.5	4.5	4.5
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)