

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: P532223

Luminaire Tested: **GALN-SA7C-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29781 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

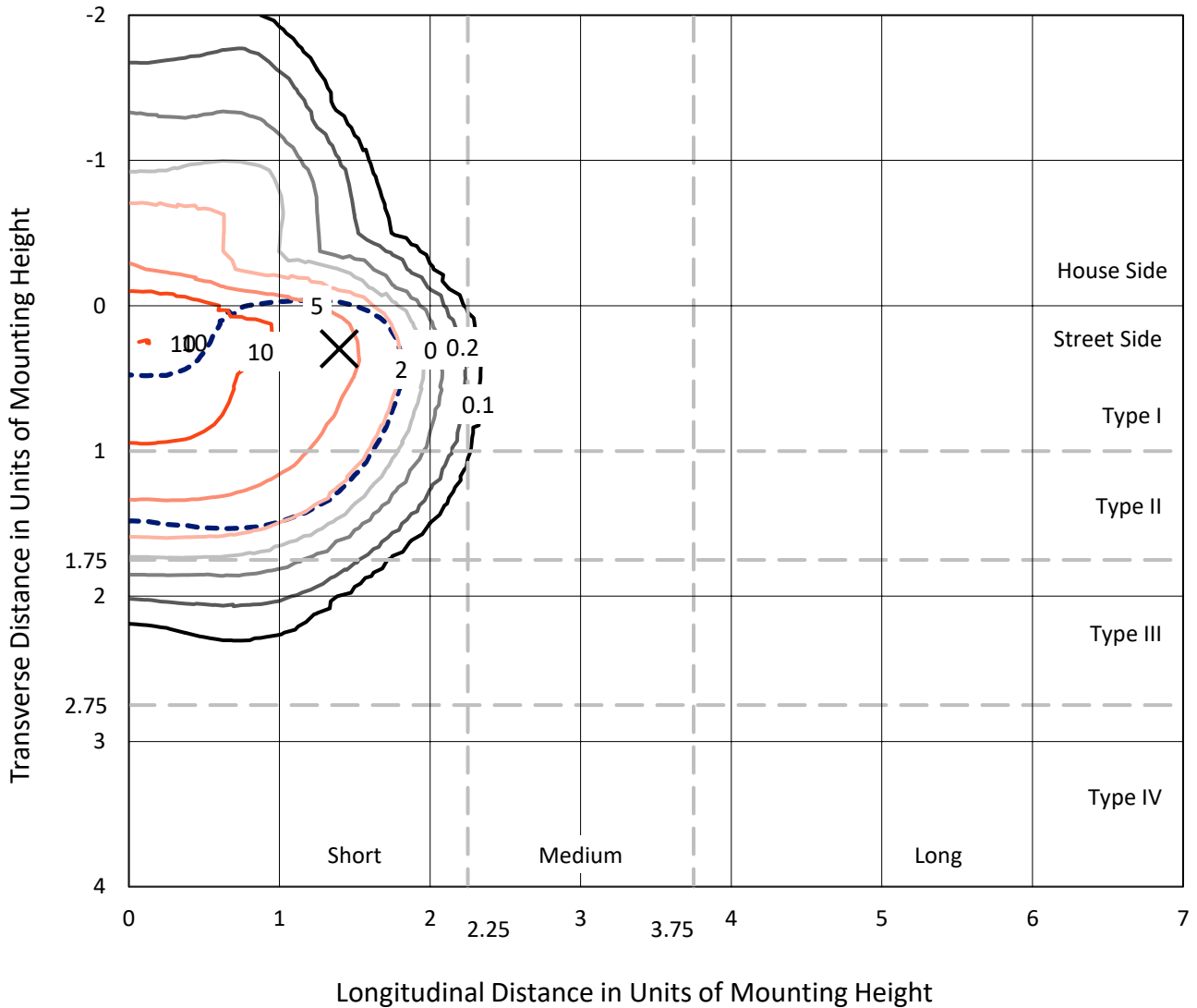
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

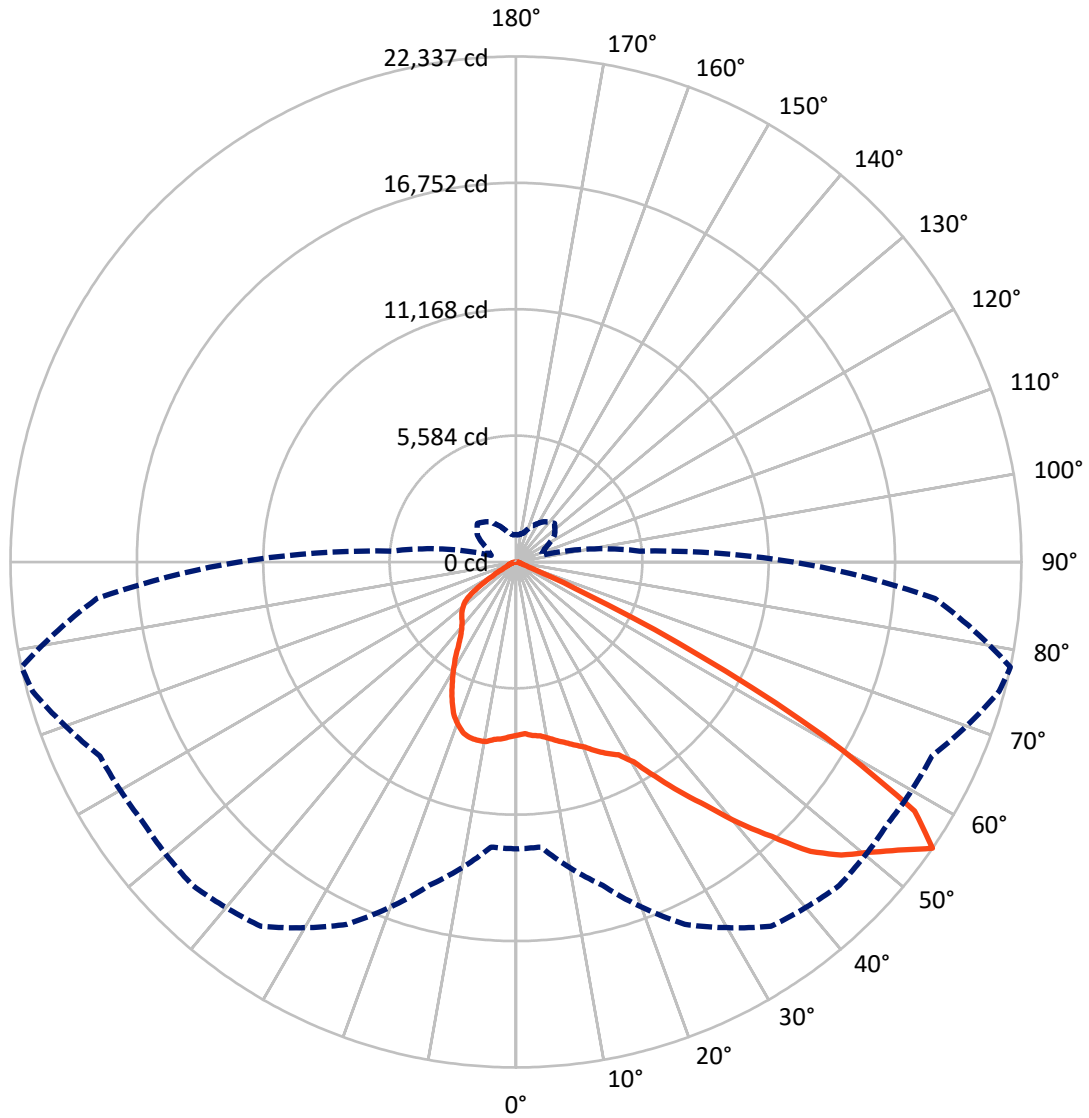
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5531.5	0.0	5531.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	24249.5	0.0	24249.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	29781.0	0.0	29781.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.7	2.3
10°-20°	1806.9	6.1
20°-30°	3167.1	10.6
30°-40°	5222.2	17.5
40°-50°	7598.9	25.5
50°-60°	8610.4	28.9
60°-70°	2461.9	8.3
70°-80°	191.2	0.6
80°-90°	39.8	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°	29781.0	100.0
0°-180°	29781.0	100.0

Coefficient of Utilization



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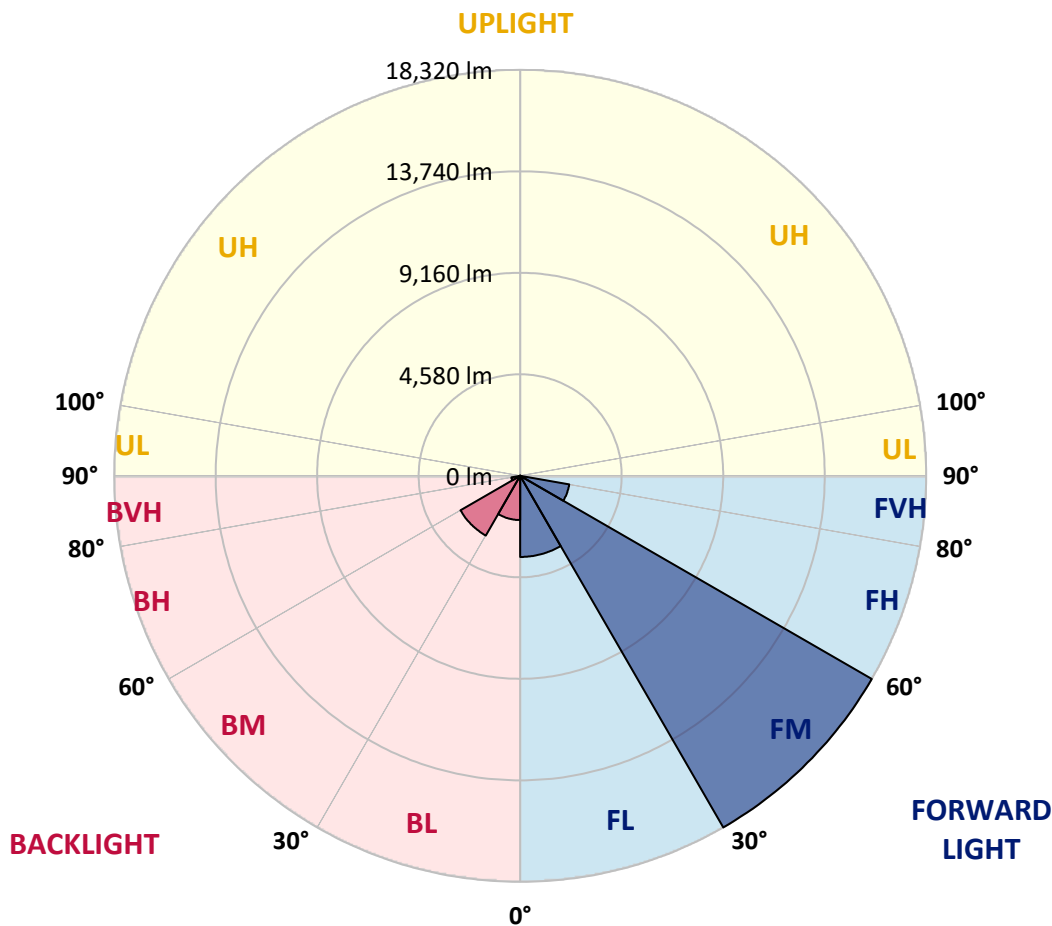
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3660.9	12.3			
FM (30°-60°)	18320.0	61.5			
FH (60°-80°)	2249.2	7.6			G2/5000
FVH (80°-90°)	19.4	0.1			G1/100
BL (0°-30°)	1995.8	6.7	B3/2500		
BM (30°-60°)	3111.5	10.4	B3/5000		
BH (60°-80°)	403.8	1.4	B1/500		G1/500
BVH (80°-90°)	20.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7
2.5°	7198.8	7268.0	7278.7	7363.9	7358.5	7502.3	7544.9	7550.2	7646.1	7598.1	7720.6
5°	6996.5	6959.2	6943.2	7092.3	7134.9	7262.7	7369.2	7433.1	7630.1	7699.3	7827.1
7.5°	6815.4	6815.4	6826.1	6959.2	6943.2	7108.3	7220.1	7417.1	7704.6	7763.2	7917.6
10°	6639.7	6575.8	6655.7	6794.1	6911.3	6985.8	7220.1	7406.5	7741.9	7912.3	8125.3
12.5°	6549.2	6581.2	6591.8	6693.0	6820.8	7044.4	7172.2	7481.0	8008.1	8109.3	8338.3
15°	7118.9	7055.0	6900.6	6810.1	6916.6	7023.1	7342.6	7656.7	8146.6	8290.3	8545.9
17.5°	7779.2	7725.9	7598.1	7353.2	7113.6	7310.6	7560.9	7848.4	8295.7	8508.6	8886.7
20°	8641.8	8556.6	8428.8	7949.6	7741.9	7528.9	7795.2	8135.9	8540.6	8732.3	9121.0
22.5°	9669.4	9669.4	9381.9	8801.5	8370.2	8167.9	8279.7	8476.7	8812.1	9073.0	9456.4
25°	10739.6	10707.7	10446.8	9845.1	9115.6	8876.0	9003.8	9142.3	9232.8	9376.5	9632.1
27.5°	11964.3	11777.9	11447.8	10782.2	10138.0	9674.7	9813.2	9690.7	9578.9	9653.4	10020.8
30°	12794.9	12912.1	12491.4	11852.5	11245.5	10729.0	10755.6	10649.1	10138.0	10244.4	10462.8
32.5°	13657.5	13732.0	13497.8	13146.3	12539.3	11937.7	11719.3	11628.8	11245.5	11293.4	11080.4
35°	14376.3	14520.1	14312.4	14158.0	13982.3	13497.8	12896.1	13188.9	12571.3	12454.1	11900.4
37.5°	15036.5	14994.0	15238.9	15079.1	15041.9	14701.1	14040.9	14099.4	13684.1	13657.5	13018.5
40°	15627.6	15638.2	15973.7	16048.2	15899.1	15292.1	14333.7	14796.9	15132.4	15164.3	14344.4
42.5°	16117.4	16261.2	16548.7	17150.4	16926.8	15915.1	14637.2	15143.0	16389.0	16586.0	15601.0
45°	16543.4	16836.2	17193.0	17730.8	17603.0	16799.0	15393.3	15856.5	17730.8	18247.3	16783.0
47.5°	16570.0	16953.4	17342.1	18140.8	18300.5	17272.9	16176.0	16985.3	18795.7	19354.8	17645.6
50°	16463.5	16665.9	17443.2	18311.2	18673.2	18044.9	17272.9	17933.1	19828.6	20180.1	18082.2
52.5°	15201.6	15356.0	16916.1	18470.9	19344.1	18918.2	18726.5	19253.6	20882.9	21143.8	18492.2
55°	12672.4	12645.8	14791.6	17666.9	19652.9	20212.0	20094.9	20281.2	22102.2	22336.5	18593.4
57.5°	8668.4	9152.9	11005.9	14711.8	17762.7	19908.5	20031.0	19722.2	20680.6	20771.1	16208.0
60°	4675.0	4877.3	6368.2	9818.5	13524.4	16223.9	16543.4	15984.3	15909.8	15654.2	11570.3
62.5°	1858.3	1959.4	2806.0	4861.3	7369.2	9861.1	10547.9	10319.0	9829.1	9158.2	5990.1
65°	883.9	947.8	1395.0	2273.6	3269.3	4110.6	4797.4	5010.4	3695.2	3327.8	1975.4
67.5°	601.7	649.6	1017.0	1299.2	1166.1	1219.3	1586.7	1474.9	867.9	740.1	548.4
70°	457.9	489.9	814.7	883.9	521.8	367.4	410.0	383.4	356.7	362.1	356.7
72.5°	324.8	351.4	596.4	521.8	229.0	170.4	218.3	260.9	260.9	260.9	255.6
75°	197.0	223.6	346.1	202.3	90.5	90.5	138.4	175.7	186.4	191.7	181.0
77.5°	101.2	127.8	117.1	58.6	58.6	69.2	101.2	122.5	133.1	133.1	127.8
80°	21.3	21.3	21.3	31.9	58.6	74.5	101.2	111.8	127.8	127.8	117.1
82.5°	0.0	5.3	16.0	31.9	53.2	69.2	95.8	111.8	127.8	133.1	122.5
85°	0.0	5.3	10.6	21.3	37.3	42.6	37.3	31.9	31.9	31.9	31.9
87.5°	0.0	0.0	5.3	5.3	5.3	10.6	10.6	10.6	10.6	10.6	10.6
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°	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7
2.5°	7731.3	7747.2	7720.6	7715.3	7694.0	7757.9	7603.5	7566.2	7662.0	7571.5	7592.8
5°	7832.4	7869.7	7821.8	7741.9	7624.8	7443.7	7289.3	7087.0	6991.1	6921.9	6911.3
7.5°	7907.0	7933.6	7885.7	7630.1	7278.7	6820.8	6480.0	6229.7	6032.7	5974.2	5878.3
10°	8210.5	8215.8	7976.2	7411.8	6724.9	6123.2	5601.4	5218.1	5021.1	4898.6	4845.3
12.5°	8412.8	8402.2	7917.6	6980.5	6064.7	5266.0	4669.6	4206.4	4025.4	3966.8	3929.5
15°	8668.4	8609.8	7779.2	6538.6	5212.7	4350.2	3812.4	3492.9	3476.9	3439.7	3476.9
17.5°	8870.7	8705.7	7576.8	5734.5	4398.1	3583.4	3232.0	3253.3	3295.9	3333.2	3338.5
20°	9200.8	8860.1	7113.6	5031.7	3642.0	3072.3	3066.9	3162.8	3269.3	3311.9	3354.5
22.5°	9451.1	8924.0	6618.4	4280.9	3024.3	2864.6	2955.1	3098.9	3178.8	3221.4	3285.3
25°	9541.6	8748.2	5958.2	3530.2	2726.2	2768.8	2907.2	3003.1	3104.2	3152.1	3125.5
27.5°	9632.1	8657.7	5170.1	2907.2	2566.4	2704.9	2822.0	2917.9	2949.8	3013.7	3056.3
30°	9850.4	8343.6	4462.0	2513.2	2486.6	2662.3	2747.5	2779.4	2864.6	2901.9	2901.9
32.5°	10026.1	8221.1	3711.2	2326.8	2475.9	2683.6	2694.2	2694.2	2704.9	2678.3	2667.6
35°	10388.2	7800.5	3040.3	2215.0	2470.6	2688.9	2715.5	2625.0	2380.1	2284.2	2257.6
37.5°	10835.5	7528.9	2545.1	2188.4	2507.9	2752.8	2795.4	2454.6	2135.1	1980.7	1954.1
40°	11378.6	7337.2	2220.3	2177.7	2593.1	2901.9	2774.1	2321.5	1906.2	1682.6	1671.9
42.5°	12012.2	7161.5	2002.0	2172.4	2699.6	3056.3	2752.8	2209.7	1671.9	1522.8	1544.1
45°	12518.0	7065.7	1852.9	2135.1	2736.8	3146.8	2768.8	2012.7	1576.1	1480.2	1490.9
47.5°	12912.1	6863.4	1730.5	2071.3	2731.5	3178.8	2625.0	1932.8	1528.1	1554.8	1581.4
50°	12922.7	6591.8	1576.1	1932.8	2651.6	3120.2	2459.9	1858.3	1517.5	1629.3	1682.6
52.5°	12778.9	6208.4	1411.0	1735.8	2465.3	2917.9	2310.9	1826.3	1469.6	1458.9	1522.8
55°	12267.8	5489.6	1134.1	1405.7	2081.9	2406.7	2177.7	1767.8	1325.8	1203.3	1214.0
57.5°	9914.3	3934.8	836.0	1006.3	1474.9	1762.4	1964.8	1741.1	1192.7	1022.3	1027.6
60°	6139.2	2231.0	612.3	686.9	910.5	1070.2	1592.0	1618.7	1064.9	862.6	851.9
62.5°	3152.1	1102.2	473.9	484.5	559.1	628.3	1091.5	1357.8	963.7	820.0	820.0
65°	1054.3	543.1	415.3	372.7	372.7	388.7	660.2	942.4	814.7	686.9	686.9
67.5°	452.6	404.7	362.1	324.8	298.2	282.2	372.7	548.4	607.0	521.8	500.5
70°	351.4	340.8	314.1	271.6	234.3	213.0	218.3	282.2	346.1	335.4	324.8
72.5°	260.9	260.9	250.3	213.0	181.0	154.4	143.8	149.1	165.1	170.4	175.7
75°	181.0	186.4	186.4	165.1	133.1	111.8	95.8	79.9	63.9	53.2	47.9
77.5°	122.5	127.8	138.4	122.5	101.2	74.5	58.6	42.6	26.6	10.6	10.6
80°	106.5	122.5	133.1	122.5	106.5	79.9	58.6	31.9	16.0	0.0	0.0
82.5°	111.8	122.5	138.4	117.1	101.2	74.5	58.6	37.3	16.0	5.3	0.0
85°	26.6	26.6	31.9	37.3	47.9	53.2	42.6	26.6	16.0	5.3	0.0
87.5°	10.6	10.6	10.6	10.6	10.6	5.3	5.3	5.3	5.3	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)