

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: P530801

Luminaire Tested: **GALN-SA6A-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530801  
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-SA6A-740-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA 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: 20230 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

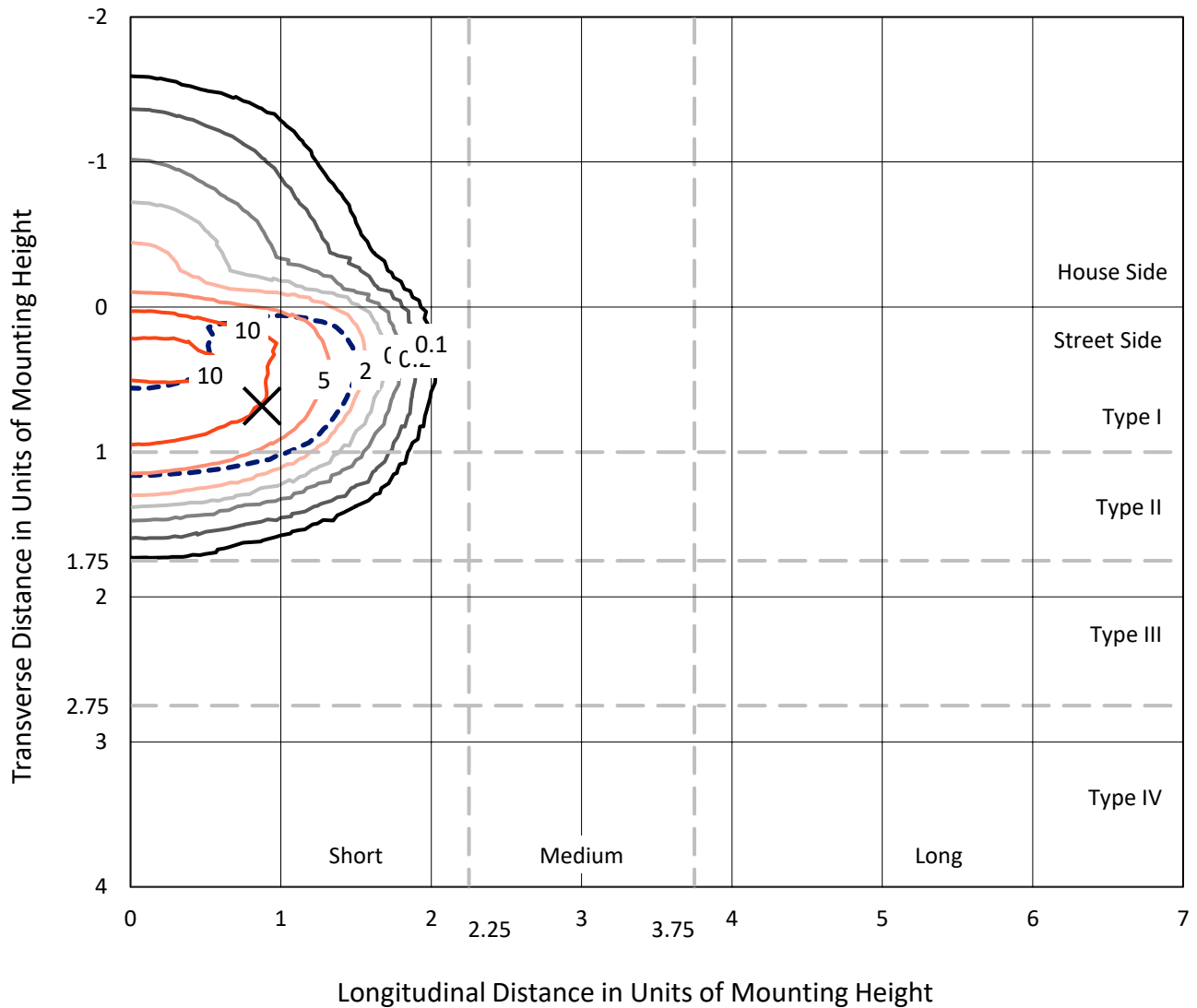
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

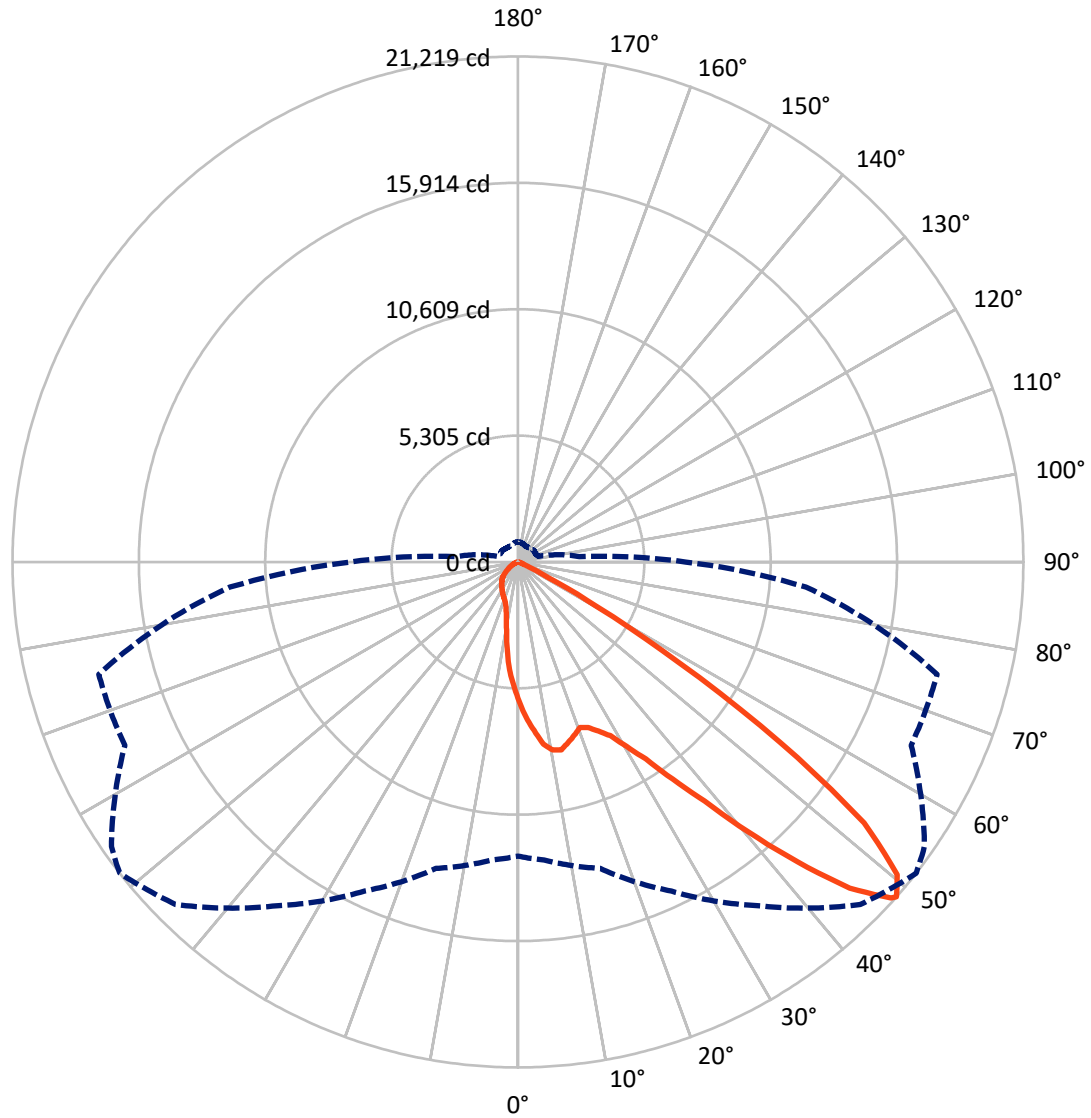
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	2463.1	0.0	2463.1
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	17766.8	0.0	17766.8
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	20230.0	0.0	20230.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	534.7	2.6
10°-20°	1397.4	6.9
20°-30°	2386.0	11.8
30°-40°	4393.7	21.7
40°-50°	6823.5	33.7
50°-60°	4106.6	20.3
60°-70°	475.0	2.3
70°-80°	91.9	0.5
80°-90°	21.2	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°	20230.0	100.0
0°-180°	20230.0	100.0

**Coefficient of Utilization**



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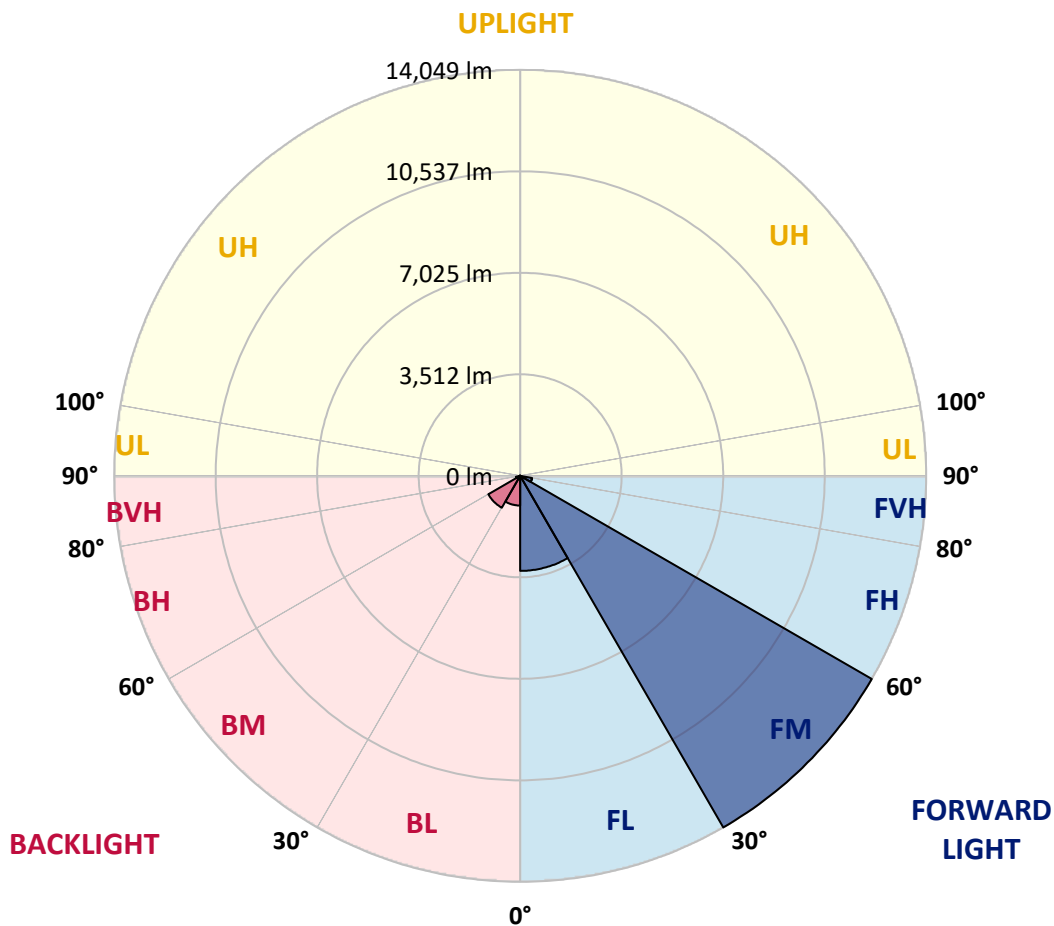
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3289.1	16.3			
FM (30°-60°)	14049.3	69.4			
FH (60°-80°)	418.2	2.1			G0/660
FVH (80°-90°)	10.1	0.0			G1/100
BL (0°-30°)	1028.9	5.1	B3/2500		
BM (30°-60°)	1274.4	6.3	B2/2500		
BH (60°-80°)	148.7	0.7	B1/500		G1/500
BVH (80°-90°)	11.1	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°	5842.1	5842.1	5842.1	5842.1	5842.1	5842.1	5842.1	5842.1	5842.1	5842.1	5842.1
2.5°	7080.7	6918.5	6933.2	6827.1	6765.1	6664.9	6529.2	6502.7	6355.2	6154.7	5951.2
5°	7717.7	7679.4	7729.5	7576.1	7582.0	7416.9	7098.4	7104.3	6765.1	6437.8	6122.2
7.5°	7759.0	7670.5	7720.6	7856.3	7935.9	7906.4	7726.5	7570.2	7248.8	6768.1	6308.0
10°	6948.0	7116.1	7169.2	7393.3	7711.8	8048.0	8027.3	8036.2	7767.8	7139.7	6467.3
12.5°	6461.4	6349.3	6529.2	6664.9	7145.6	7797.3	8095.2	8160.0	8180.7	7499.5	6626.5
15°	6240.2	6240.2	6269.7	6308.0	6656.0	7257.6	7865.1	8053.9	8499.2	7971.3	6877.2
17.5°	6378.8	6372.9	6414.2	6334.6	6464.3	6927.3	7652.8	7868.1	8856.0	8434.3	7074.8
20°	6800.5	6821.2	6794.6	6564.6	6573.5	6921.4	7416.9	7756.0	9097.9	8835.4	7337.3
22.5°	7387.4	7399.2	7248.8	6998.1	6924.4	7095.4	7552.5	7812.1	9292.5	9316.1	7416.9
25°	8065.7	8018.5	7989.0	7635.1	7411.0	7558.4	7859.2	8009.6	9413.4	9728.9	7644.0
27.5°	9006.4	8912.1	8732.2	8416.6	8251.5	8042.1	8257.4	8505.1	9758.4	10307.0	7891.7
30°	10395.4	10312.9	9961.9	9555.0	9121.4	8915.0	8982.8	9118.5	10380.7	10976.4	8219.0
32.5°	12486.3	12312.3	11805.1	11029.5	10439.7	9870.5	9852.8	9997.3	10938.1	11902.4	8608.3
35°	14789.5	14736.5	13990.3	13191.1	12049.9	11171.0	11185.8	11262.5	12005.6	13117.4	9118.5
37.5°	16320.1	16612.1	16137.3	15279.1	14320.6	13064.3	12745.8	12772.4	13471.3	14556.6	10038.6
40°	17502.7	17255.0	17311.0	17110.4	16455.8	15600.5	14895.7	14757.1	15167.0	16149.1	10952.8
42.5°	16986.6	16998.4	17343.4	17818.2	17980.4	17918.5	17198.9	16936.5	16618.0	17452.5	11822.8
45°	15529.8	15833.5	16281.8	17538.1	18641.0	19676.1	19534.6	19098.1	17620.6	18484.7	12324.1
47.5°	13205.9	13194.1	13928.4	15562.2	18012.9	20437.0	21079.9	20773.2	18331.4	18369.7	12220.9
48°	12347.7	12560.0	13318.0	15240.7	17614.7	20324.9	21218.5	20832.2	18210.4	18216.3	12132.4
50°	9127.3	9089.0	10032.7	12392.0	15733.2	19098.1	20634.6	20935.4	18207.5	17440.7	11513.1
52.5°	4821.7	4986.9	5674.0	7791.4	11123.9	15630.0	18201.6	18670.5	17564.6	16172.6	10622.5
55°	2049.6	1852.0	2379.9	3518.2	6257.9	10442.6	13353.3	14397.3	14851.5	14311.8	9292.5
57.5°	731.4	799.2	920.1	1324.1	2630.6	5715.3	7962.5	8773.5	10289.3	10501.6	6331.6
60°	468.9	477.7	516.1	607.5	987.9	2202.9	3777.7	4423.6	5110.7	5275.9	2955.0
62.5°	362.7	365.7	383.4	398.1	468.9	855.2	1418.5	1681.0	1745.8	1501.1	775.6
65°	303.8	306.7	312.6	312.6	333.2	401.1	495.4	545.6	530.8	524.9	439.4
67.5°	233.0	238.9	250.7	250.7	262.5	244.8	274.3	292.0	330.3	401.1	374.5
70°	182.8	185.8	194.6	200.5	200.5	176.9	197.6	215.3	241.8	297.9	294.9
72.5°	141.6	147.5	153.4	153.4	144.5	120.9	141.6	156.3	174.0	206.4	200.5
75°	109.1	109.1	112.1	91.4	70.8	61.9	85.5	103.2	129.8	135.7	112.1
77.5°	29.5	32.4	29.5	26.5	29.5	44.2	56.0	64.9	82.6	82.6	73.7
80°	0.0	2.9	8.8	17.7	29.5	41.3	50.1	56.0	64.9	70.8	67.8
82.5°	0.0	2.9	8.8	17.7	26.5	32.4	44.2	47.2	53.1	61.9	61.9
85°	0.0	2.9	5.9	11.8	17.7	20.6	20.6	17.7	17.7	14.7	11.8
87.5°	0.0	0.0	2.9	5.9	5.9	8.8	8.8	8.8	8.8	8.8	8.8
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°	5842.1	5842.1	5842.1	5842.1	5842.1	5842.1	5842.1	5842.1	5842.1	5842.1	5842.1
2.5°	5871.6	5780.2	5641.6	5423.3	5213.9	5078.3	4948.5	4804.0	4724.4	4718.5	4674.3
5°	5942.4	5735.9	5405.6	5031.1	4630.0	4285.0	3937.0	3709.9	3506.4	3394.4	3373.7
7.5°	5980.7	5712.3	5178.5	4550.4	3866.2	3302.9	2913.7	2627.6	2515.5	2433.0	2430.0
10°	6060.3	5671.0	4839.4	3913.4	3067.0	2497.9	2229.5	2099.7	2037.8	2014.2	1978.8
12.5°	6119.3	5594.4	4491.4	3258.7	2424.1	2070.2	1952.3	1922.8	1925.7	1937.5	1922.8
15°	6201.9	5526.5	4022.5	2674.8	2034.9	1863.8	1863.8	1869.7	1911.0	1916.9	1913.9
17.5°	6196.0	5393.8	3538.9	2202.9	1798.9	1775.3	1784.2	1840.2	1866.8	1875.6	1855.0
20°	6266.8	5270.0	3040.5	1881.5	1666.2	1701.6	1760.6	1775.3	1807.8	1813.7	1790.1
22.5°	6246.1	4960.3	2577.5	1627.9	1566.0	1633.8	1692.8	1710.5	1701.6	1683.9	1681.0
25°	6207.8	4694.9	2152.8	1459.8	1492.2	1566.0	1622.0	1589.5	1571.8	1574.8	1577.7
27.5°	6139.9	4358.7	1801.9	1341.8	1392.0	1501.1	1498.1	1486.3	1504.0	1489.3	1504.0
30°	6128.1	4022.5	1512.9	1235.7	1318.2	1397.9	1403.8	1424.4	1445.0	1418.5	1445.0
32.5°	6145.8	3653.9	1306.4	1170.8	1274.0	1276.9	1341.8	1362.5	1347.7	1288.7	1294.6
35°	6281.5	3370.8	1156.0	1135.4	1203.2	1206.2	1268.1	1241.6	1176.7	1141.3	1161.9
37.5°	6567.6	3134.9	1085.3	1102.9	1108.8	1147.2	1150.1	1097.1	1102.9	1100.0	1111.8
40°	6933.2	2955.0	1035.1	1073.5	1067.6	1094.1	987.9	1017.4	1044.0	1052.8	1058.7
42.5°	7183.9	2825.2	1002.7	1026.3	1014.5	967.3	908.3	937.8	958.4	990.9	996.8
45°	7296.0	2722.0	964.3	943.7	943.7	858.2	834.6	840.5	887.7	923.1	917.2
47.5°	7113.1	2621.7	896.5	834.6	855.2	784.4	757.9	757.9	808.0	852.3	843.4
48°	7042.4	2580.4	899.5	811.0	825.7	772.7	746.1	740.2	796.2	837.5	837.5
50°	6691.4	2427.1	822.8	746.1	716.6	710.7	693.0	698.9	734.3	772.7	772.7
52.5°	6007.2	2096.8	696.0	639.9	586.9	622.3	631.1	619.3	637.0	672.4	669.4
55°	5013.4	1610.2	557.4	530.8	489.5	527.9	545.6	530.8	513.1	539.7	539.7
57.5°	3211.5	867.0	445.3	451.2	409.9	448.3	463.0	427.6	395.2	415.8	412.9
60°	1448.0	519.0	365.7	356.8	330.3	374.5	398.1	356.8	312.6	327.3	342.1
62.5°	542.6	368.6	277.2	271.3	265.4	306.7	318.5	286.1	241.8	250.7	253.6
65°	398.1	324.4	221.2	200.5	212.3	241.8	235.9	203.5	174.0	174.0	179.9
67.5°	339.1	283.1	179.9	156.3	156.3	159.2	147.5	129.8	120.9	126.8	132.7
70°	265.4	224.1	141.6	120.9	109.1	97.3	85.5	82.6	73.7	82.6	79.6
72.5°	171.0	150.4	109.1	91.4	82.6	67.8	56.0	53.1	44.2	41.3	41.3
75°	91.4	91.4	85.5	73.7	64.9	53.1	44.2	35.4	23.6	17.7	17.7
77.5°	64.9	70.8	76.7	70.8	59.0	44.2	35.4	23.6	11.8	5.9	5.9
80°	61.9	70.8	76.7	67.8	59.0	44.2	32.4	17.7	8.8	2.9	2.9
82.5°	56.0	64.9	70.8	61.9	53.1	38.3	29.5	17.7	8.8	2.9	2.9
85°	11.8	14.7	17.7	17.7	20.6	26.5	20.6	14.7	5.9	2.9	2.9
87.5°	8.8	8.8	8.8	8.8	8.8	8.8	5.9	5.9	2.9	2.9	2.9
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)