

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: P533101

Luminaire Tested: **GALN-SA8C-730-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533101  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-730-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30499 lumens  
Efficiency: N/A  
Efficacy: 71.1 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

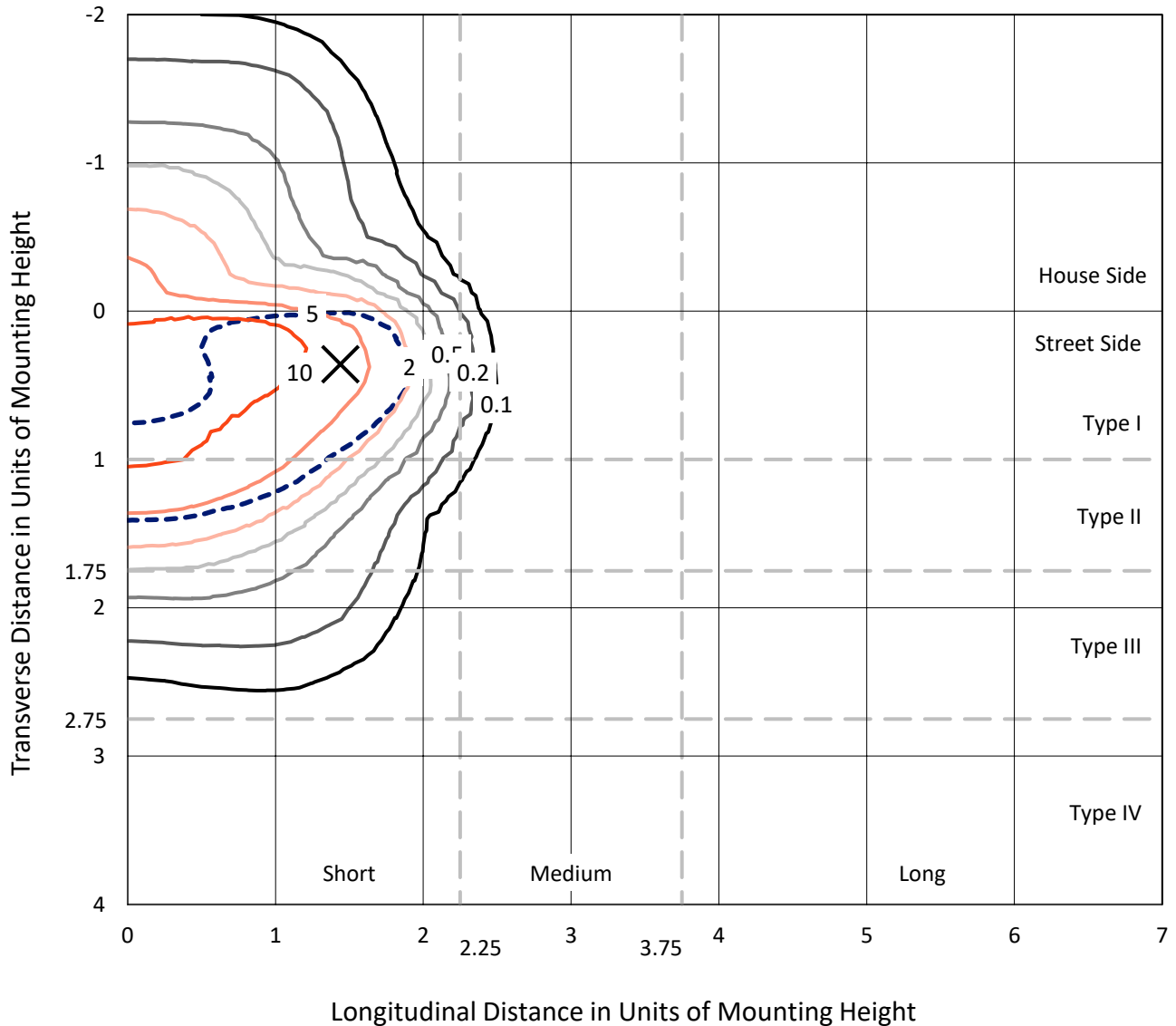
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

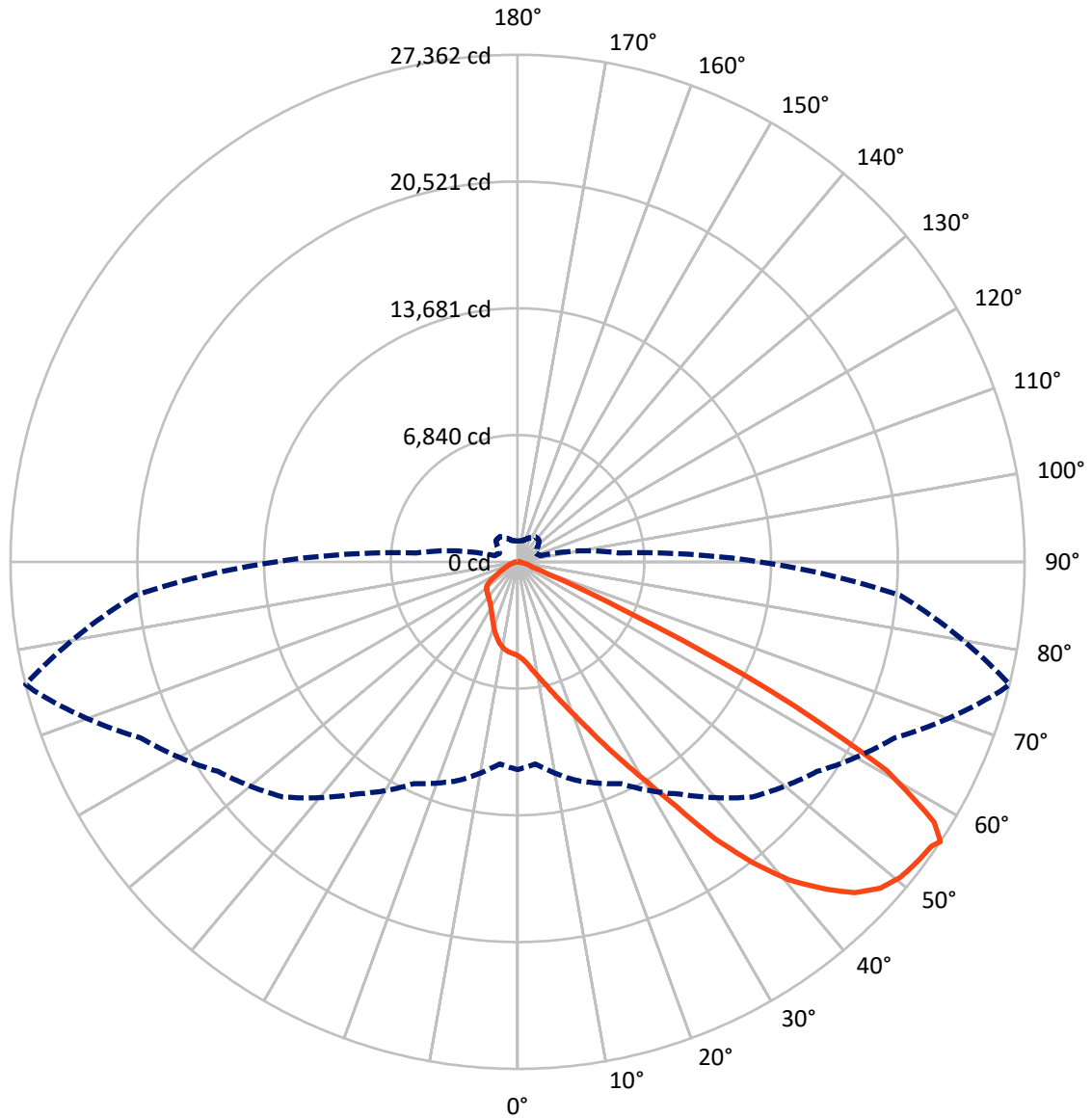
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4791.2	0.0	4791.2
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	25707.8	0.0	25707.8
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	30499.0	0.0	30499.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	511.4	1.7
10°-20°	1642.9	5.4
20°-30°	2979.1	9.8
30°-40°	5137.6	16.8
40°-50°	8346.1	27.4
50°-60°	8797.1	28.8
60°-70°	2687.9	8.8
70°-80°	344.6	1.1
80°-90°	52.4	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°	30499.0	100.0
0°-180°	30499.0	100.0

**Coefficient of Utilization**

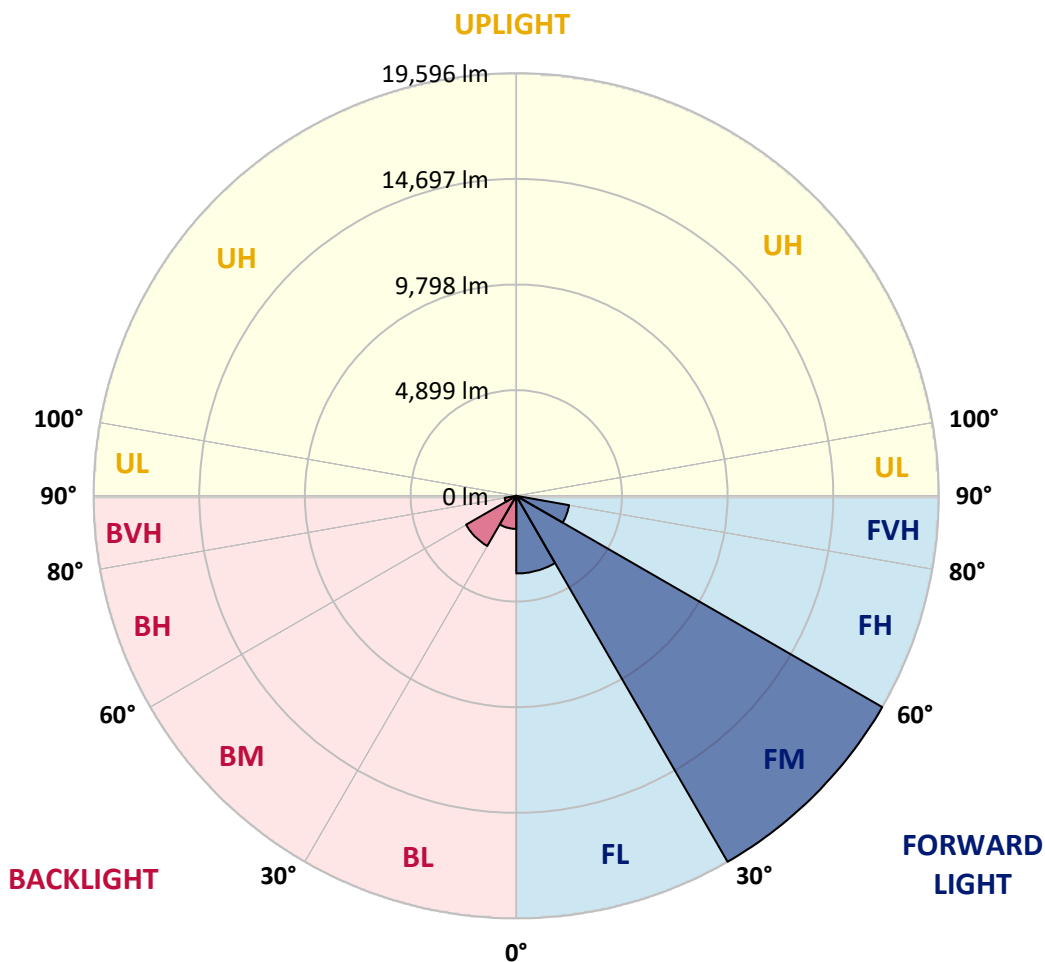


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3600.7	11.8			
FM (30°-60°)	19595.6	64.2			
FH (60°-80°)	2485.9	8.2			G2/5000
FVH (80°-90°)	25.7	0.1			G1/100
BL (0°-30°)	1532.7	5.0	B3/2500		
BM (30°-60°)	2685.2	8.8	B3/5000		
BH (60°-80°)	546.6	1.8	B2/1000		G2/1000
BVH (80°-90°)	26.7	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°	76°	85°
0°	5076.6	5076.6	5076.6	5076.6	5076.6	5076.6	5076.6	5076.6	5076.6	5076.6	5076.6
2.5°	5846.8	5711.9	5717.5	5706.3	5689.4	5627.6	5442.0	5413.9	5290.2	5256.5	5144.1
5°	6549.6	6431.5	6499.0	6397.8	6302.2	6246.0	5942.4	5801.8	5605.1	5532.0	5374.6
7.5°	6988.1	6931.8	6909.4	6915.0	6825.0	6684.5	6549.6	6240.3	5976.1	5919.9	5588.2
10°	7201.7	7168.0	7201.7	7184.8	7224.2	7241.0	7004.9	6819.4	6431.5	6335.9	5818.7
12.5°	7252.3	7319.8	7347.9	7420.9	7516.5	7679.6	7662.7	7409.7	6892.5	6830.6	6172.9
15°	7376.0	7432.2	7404.1	7522.1	7702.0	7977.5	8123.7	8084.3	7527.8	7415.3	6583.3
17.5°	7488.4	7387.2	7482.8	7718.9	7898.8	8320.5	8674.6	8837.7	8219.3	8090.0	6960.0
20°	7640.2	7612.1	7595.2	7713.3	8033.7	8595.9	9298.7	9596.6	8995.1	8860.2	7499.7
22.5°	8101.2	8106.8	8095.6	7921.3	8151.8	8787.1	9844.0	10580.5	9922.7	9810.3	8112.4
25°	8708.4	8635.3	8579.1	8438.5	8410.4	8961.4	10395.0	11783.6	11035.9	10957.1	8775.8
27.5°	9349.3	9349.3	9180.6	9051.3	8871.4	9394.2	10900.9	12952.9	12379.5	12272.7	9354.9
30°	10046.4	10085.7	10063.3	9787.8	9675.3	9866.5	11418.1	14448.4	13919.9	13785.0	10310.6
32.5°	11075.2	10990.9	11086.4	10856.0	10524.3	10692.9	12233.3	15786.4	15921.3	15730.2	11564.3
35°	12435.7	12385.1	12323.3	11946.6	11553.1	11688.0	13385.8	17433.6	18434.3	18338.7	12829.2
37.5°	13655.7	13627.6	13577.0	13318.4	12863.0	13026.0	14695.7	19148.3	20885.5	20570.6	14617.0
40°	14937.5	15089.3	14926.2	14695.7	14279.7	14639.5	16236.1	20165.9	22948.7	22566.4	15983.2
42.5°	16674.6	16556.6	16629.7	16208.0	15983.2	16376.7	17782.2	21183.4	24551.0	24095.6	17433.6
45°	18524.3	18529.9	18333.1	18198.2	17613.5	18040.8	18732.3	21745.6	25827.2	25473.0	18529.9
47.5°	19710.5	19704.9	19918.5	20132.1	19530.6	19108.9	19378.8	22279.7	26484.9	26321.9	18929.0
50°	19525.0	19581.2	19856.7	20655.0	20969.8	20402.0	19986.0	22122.3	26782.9	26766.0	19272.0
52.5°	16983.9	17169.4	17630.4	18782.9	20368.3	21071.0	20621.2	22414.6	26929.1	26957.2	19783.6
55°	12930.4	13031.6	13908.7	15308.5	17062.6	19468.7	20368.3	22645.1	27041.5	27092.1	20402.0
56°	11215.8	10945.9	12210.8	13205.9	15302.9	17934.0	19727.4	22465.2	26974.0	27361.9	20711.2
57.5°	8466.6	8286.7	9309.9	10552.4	12570.6	15347.9	17737.2	21616.3	26518.7	26513.0	20267.1
60°	5149.7	4969.8	5756.9	6487.7	7617.7	9450.5	11986.0	17214.4	22420.3	22892.5	16410.4
62.5°	3064.0	3176.4	3952.2	4396.4	4761.8	4952.9	6201.0	10231.9	14960.0	15297.3	10181.3
65°	2040.8	2080.1	2664.8	3395.6	3558.7	2833.5	2524.2	4143.4	6487.7	6279.7	4199.6
67.5°	1259.3	1349.3	1787.8	2552.4	2827.8	2068.9	1197.5	1546.0	1787.8	1787.8	1214.3
70°	764.6	809.6	1191.8	1737.2	1939.6	1332.4	871.4	871.4	860.2	843.3	725.2
72.5°	365.4	393.5	607.2	893.9	910.8	702.7	674.6	736.5	719.6	714.0	601.5
75°	157.4	168.7	213.6	281.1	320.5	298.0	410.4	528.5	545.3	528.5	432.9
77.5°	50.6	56.2	78.7	101.2	106.8	129.3	174.3	219.3	253.0	236.1	213.6
80°	5.6	11.2	22.5	50.6	78.7	101.2	129.3	146.2	163.0	163.0	151.8
82.5°	5.6	5.6	22.5	45.0	73.1	95.6	123.7	140.5	163.0	168.7	157.4
85°	0.0	5.6	16.9	39.4	61.8	61.8	56.2	56.2	39.4	39.4	39.4
87.5°	0.0	0.0	5.6	5.6	5.6	11.2	11.2	11.2	11.2	11.2	11.2
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°	5076.6	5076.6	5076.6	5076.6	5076.6	5076.6	5076.6	5076.6	5076.6	5076.6	5076.6
2.5°	5121.6	5110.3	4958.5	4863.0	4812.4	4711.2	4649.3	4604.4	4570.6	4531.3	4536.9
5°	5189.0	5149.7	4896.7	4722.4	4514.4	4402.0	4306.4	4227.7	4177.1	4165.9	4143.4
7.5°	5380.2	5172.2	4789.9	4475.1	4210.8	4098.4	4014.1	3963.5	3985.9	3935.4	3974.7
10°	5526.4	5217.2	4660.6	4205.2	3941.0	3856.6	3811.7	3851.0	3907.2	3884.8	3856.6
12.5°	5706.3	5262.1	4452.6	3946.6	3699.2	3637.4	3716.1	3789.2	3901.6	3946.6	3890.4
15°	5908.7	5312.7	4188.3	3648.6	3491.2	3541.8	3676.7	3806.0	3918.5	3974.7	4008.4
17.5°	6156.0	5295.9	3929.7	3412.5	3294.5	3440.6	3603.7	3721.7	3890.4	3974.7	3952.2
20°	6386.5	5239.6	3643.0	3176.4	3182.0	3316.9	3451.9	3643.0	3733.0	3845.4	3806.0
22.5°	6605.8	5138.4	3345.0	3013.4	3013.4	3221.4	3288.8	3412.5	3491.2	3547.4	3541.8
25°	6915.0	4947.3	3097.7	2855.9	2923.4	3058.3	3114.6	3153.9	3120.2	3165.1	3170.8
27.5°	7134.2	4750.5	2895.3	2715.4	2839.1	2940.3	2923.4	2900.9	2822.2	2760.4	2799.7
30°	7370.4	4520.0	2721.0	2619.8	2687.3	2777.2	2709.8	2642.3	2518.6	2417.4	2423.1
32.5°	7707.7	4413.2	2569.2	2507.4	2597.3	2608.6	2535.5	2434.3	2310.6	2215.0	2209.4
35°	8337.3	4345.8	2439.9	2434.3	2451.2	2456.8	2383.7	2260.0	2209.4	2130.7	2158.8
37.5°	8967.0	4312.0	2350.0	2327.5	2321.9	2327.5	2243.2	2125.1	2220.7	2215.0	2226.3
40°	9770.9	4463.8	2220.7	2192.6	2198.2	2198.2	2091.4	2057.6	2226.3	2243.2	2248.8
42.5°	10586.1	4655.0	2136.3	2046.4	2068.9	2068.9	2012.7	1973.3	2091.4	1978.9	1962.1
45°	11294.5	4936.1	2046.4	1900.2	1956.4	1984.5	1967.7	1900.2	1827.1	1636.0	1636.0
47.5°	11525.0	5183.4	1939.6	1759.7	1804.6	1928.3	1877.7	1737.2	1607.9	1450.5	1439.2
50°	11929.7	5453.3	1855.2	1596.6	1692.2	1844.0	1793.4	1652.8	1506.7	1394.2	1399.9
52.5°	12345.8	5762.5	1697.8	1405.5	1523.5	1776.5	1776.5	1619.1	1394.2	1315.5	1304.3
55°	12969.8	5751.2	1416.7	1152.5	1360.5	1675.3	1703.4	1450.5	1248.1	1186.2	1186.2
56°	13059.7	5492.6	1276.2	1079.4	1287.4	1647.2	1652.8	1405.5	1191.8	1124.4	1124.4
57.5°	12385.1	4958.5	1118.8	989.5	1197.5	1596.6	1602.3	1366.1	1146.9	1051.3	1040.1
60°	9529.2	3356.3	933.2	882.6	1085.0	1439.2	1467.3	1242.4	1006.3	933.2	927.6
62.5°	5380.2	1860.9	820.8	798.3	933.2	1225.6	1309.9	1085.0	854.5	815.2	826.4
65°	2456.8	1023.2	691.5	646.5	753.3	944.5	1056.9	893.9	702.7	657.8	657.8
67.5°	899.5	697.1	590.3	511.6	528.5	612.8	685.9	579.1	466.6	399.2	416.0
70°	640.9	584.7	517.2	444.1	410.4	399.2	393.5	326.1	230.5	179.9	191.1
72.5°	517.2	483.5	432.9	376.7	320.5	269.9	230.5	168.7	106.8	73.1	67.5
75°	371.0	354.2	314.8	269.9	224.9	191.1	157.4	106.8	56.2	28.1	28.1
77.5°	191.1	191.1	185.5	168.7	140.5	112.4	90.0	61.8	33.7	11.2	11.2
80°	146.2	157.4	163.0	146.2	129.3	101.2	73.1	45.0	22.5	5.6	5.6
82.5°	140.5	163.0	174.3	151.8	129.3	95.6	73.1	45.0	22.5	5.6	5.6
85°	33.7	33.7	50.6	56.2	73.1	78.7	61.8	39.4	16.9	5.6	5.6
87.5°	11.2	11.2	11.2	11.2	11.2	11.2	5.6	5.6	5.6	5.6	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)