

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: P534089

Luminaire Tested: **GALN-SA9C-740-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534089  
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-SA9C-740-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 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: 37597 lumens  
Efficiency: N/A  
Efficacy: 78.2 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

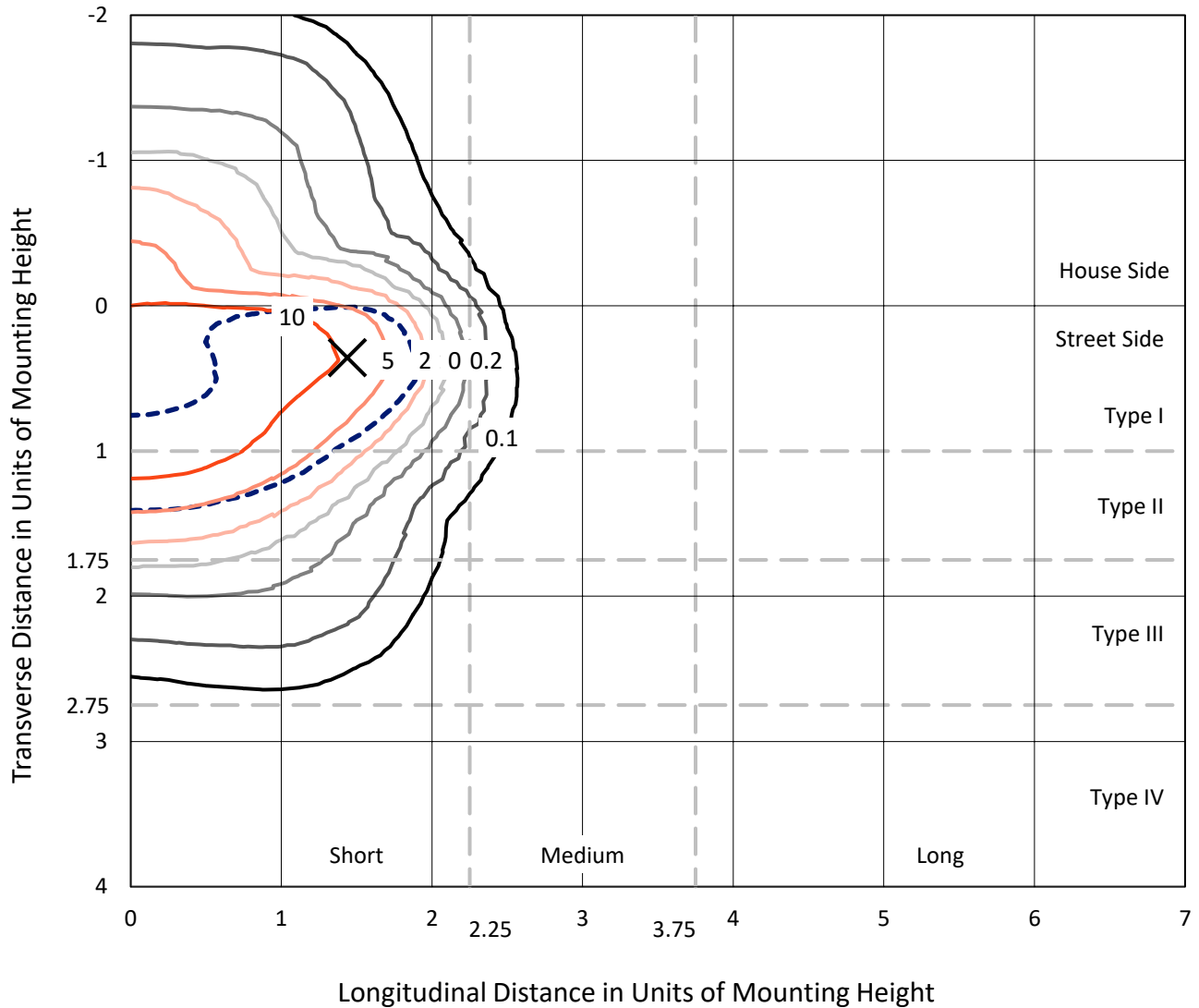
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

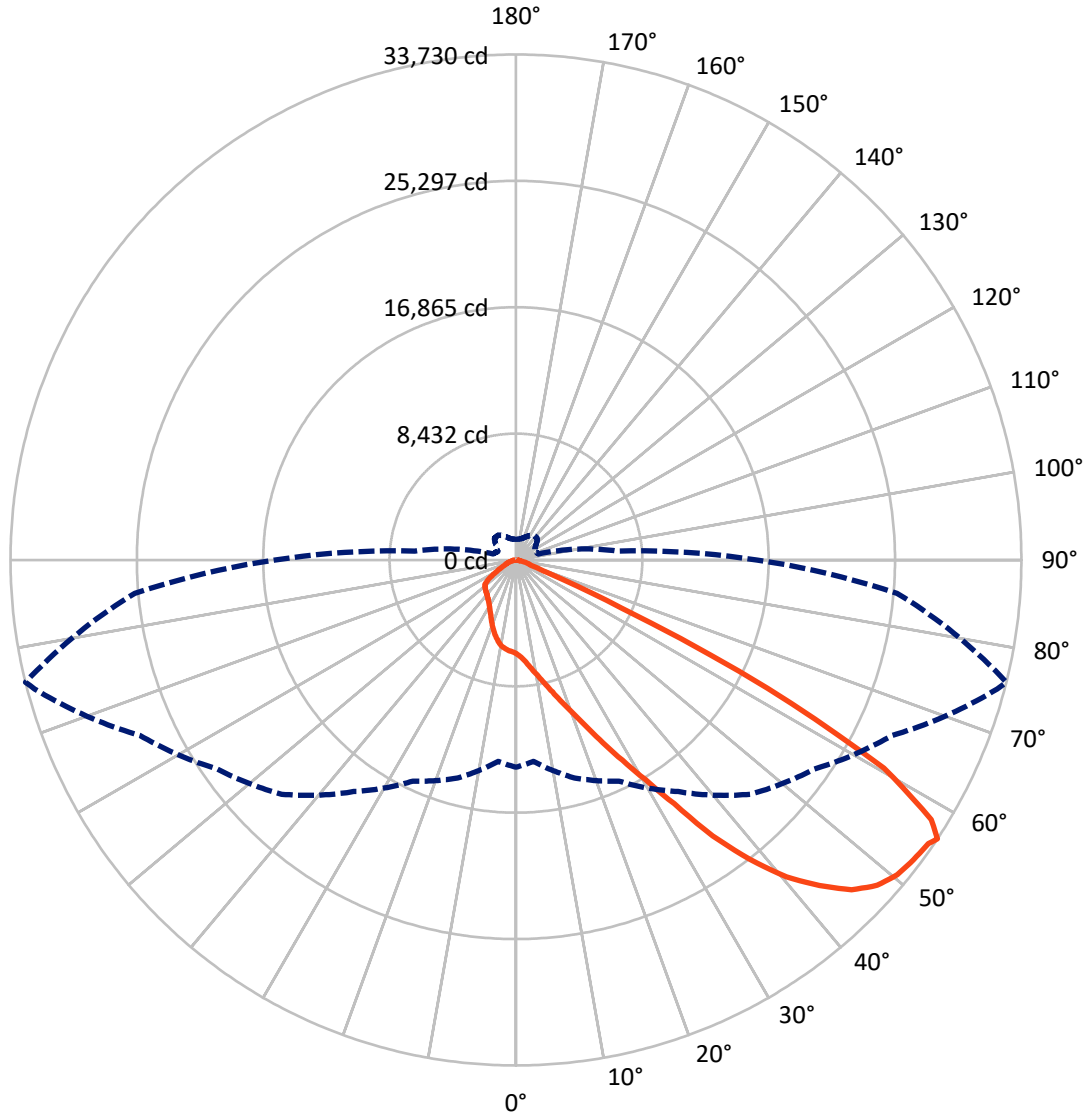
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 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	5906.3	0.0	5906.3
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	31690.7	0.0	31690.7
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	37597.0	0.0	37597.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	630.4	1.7
10°-20°	2025.3	5.4
20°-30°	3672.4	9.8
30°-40°	6333.2	16.8
40°-50°	10288.5	27.4
50°-60°	10844.4	28.8
60°-70°	3313.4	8.8
70°-80°	424.8	1.1
80°-90°	64.6	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°	37597.0	100.0
0°-180°	37597.0	100.0

**Coefficient of Utilization**

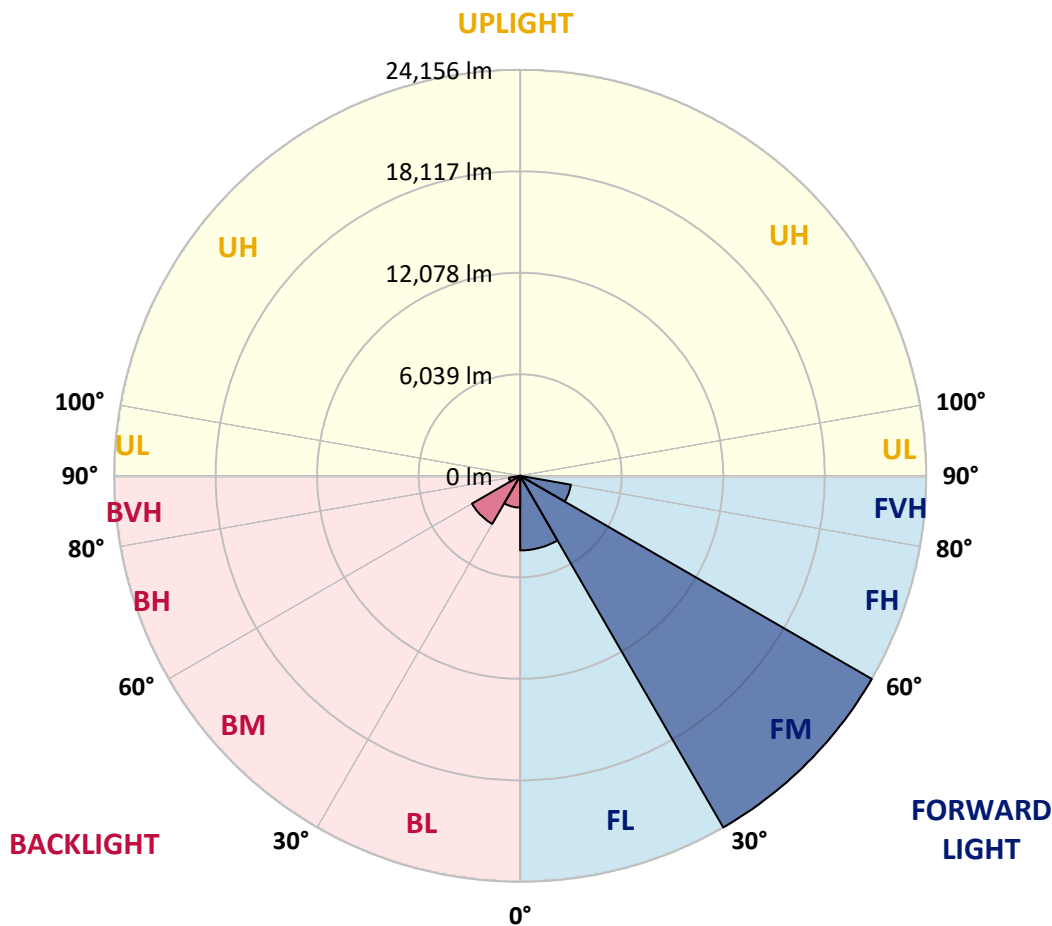


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4438.7	11.8			
FM (30°-60°)	24156.0	64.2			
FH (60°-80°)	3064.4	8.2			G2/5000
FVH (80°-90°)	31.6	0.1			G1/100
BL (0°-30°)	1889.4	5.0	B3/2500		
BM (30°-60°)	3310.1	8.8	B3/5000		
BH (60°-80°)	673.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	32.9	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°	6258.1	6258.1	6258.1	6258.1	6258.1	6258.1	6258.1	6258.1	6258.1	6258.1	6258.1
2.5°	7207.5	7041.2	7048.1	7034.3	7013.5	6937.2	6708.5	6673.9	6521.4	6479.8	6341.2
5°	8073.8	7928.3	8011.4	7886.7	7768.9	7699.6	7325.3	7152.1	6909.5	6819.4	6625.4
7.5°	8614.4	8545.1	8517.4	8524.3	8413.4	8240.1	8073.8	7692.7	7366.9	7297.6	6888.7
10°	8877.7	8836.2	8877.7	8856.9	8905.5	8926.2	8635.2	8406.5	7928.3	7810.5	7172.9
12.5°	8940.1	9023.3	9057.9	9148.0	9265.8	9466.8	9446.0	9134.2	8496.6	8420.3	7609.5
15°	9092.6	9161.9	9127.2	9272.8	9494.5	9834.1	10014.3	9965.8	9279.7	9141.1	8115.4
17.5°	9231.2	9106.4	9224.3	9515.3	9737.1	10256.9	10693.5	10894.5	10132.1	9972.7	8579.7
20°	9418.3	9383.7	9362.9	9508.4	9903.4	10596.5	11462.7	11830.1	11088.5	10922.2	9245.0
22.5°	9986.6	9993.5	9979.7	9764.8	10049.0	10832.1	12135.0	13042.9	12232.0	12093.4	10000.4
25°	10735.1	10645.0	10575.7	10402.4	10367.8	11046.9	12814.2	14525.9	13604.2	13507.2	10818.2
27.5°	11525.1	11525.1	11317.2	11157.8	10936.0	11580.6	13437.9	15967.5	15260.6	15128.9	11532.0
30°	12384.5	12433.0	12405.3	12065.7	11927.1	12162.7	14075.5	17810.9	17159.5	16993.1	12710.2
32.5°	13652.7	13548.8	13666.6	13382.4	12973.6	13181.5	15080.4	19460.3	19626.7	19391.0	14255.7
35°	15329.9	15267.5	15191.3	14726.9	14241.8	14408.1	16501.1	21490.9	22724.5	22606.7	15815.0
37.5°	16833.7	16799.1	16736.7	16417.9	15856.6	16057.5	18115.9	23604.7	25746.1	25358.0	18018.8
40°	18413.9	18601.0	18400.0	18115.9	17603.0	18046.5	20014.8	24859.1	28289.6	27818.3	19702.9
42.5°	20555.3	20409.8	20499.9	19980.1	19702.9	20188.0	21920.6	26113.4	30264.7	29703.3	21490.9
45°	22835.4	22842.3	22599.8	22433.4	21712.7	22239.4	23091.8	26806.5	31837.9	31401.3	22842.3
47.5°	24297.7	24290.8	24554.1	24817.5	24075.9	23556.2	23888.8	27464.9	32648.7	32447.7	23334.4
50°	24069.0	24138.3	24477.9	25462.0	25850.1	25150.1	24637.3	27270.8	33016.0	32995.2	23757.1
52.5°	20936.5	21165.2	21733.5	23154.2	25108.5	25974.8	25420.4	27631.2	33196.2	33230.9	24387.8
55°	15939.7	16064.5	17145.6	18871.3	21033.5	23999.7	25108.5	27915.3	33334.8	33397.2	25150.1
56°	13826.0	13493.3	15052.7	16279.3	18864.3	22107.7	24318.5	27693.6	33251.7	33729.9	25531.3
57.5°	10437.1	10215.3	11476.6	13008.2	15496.2	18919.8	21865.2	26647.1	32690.3	32683.4	24983.8
60°	6348.2	6126.4	7096.6	7997.6	9390.6	11649.9	14775.4	21220.6	27638.1	28220.3	20229.6
62.5°	3777.0	3915.6	4872.0	5419.5	5870.0	6105.6	7644.1	12613.2	18441.6	18857.4	12550.8
65°	2515.7	2564.2	3285.0	4185.9	4386.9	3492.9	3111.7	5107.6	7997.6	7741.2	5176.9
67.5°	1552.4	1663.3	2203.8	3146.4	3485.9	2550.4	1476.2	1905.8	2203.8	2203.8	1496.9
70°	942.5	998.0	1469.2	2141.5	2391.0	1642.5	1074.2	1074.2	1060.3	1039.5	894.0
72.5°	450.5	485.1	748.5	1101.9	1122.7	866.3	831.6	907.9	887.1	880.2	741.5
75°	194.0	207.9	263.4	346.5	395.0	367.3	505.9	651.4	672.2	651.4	533.6
77.5°	62.4	69.3	97.0	124.7	131.7	159.4	214.8	270.3	311.9	291.1	263.4
80°	6.9	13.9	27.7	62.4	97.0	124.7	159.4	180.2	201.0	201.0	187.1
82.5°	6.9	6.9	27.7	55.4	90.1	117.8	152.5	173.3	201.0	207.9	194.0
85°	0.0	6.9	20.8	48.5	76.2	76.2	69.3	69.3	48.5	48.5	48.5
87.5°	0.0	0.0	6.9	6.9	6.9	13.9	13.9	13.9	13.9	13.9	13.9
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°	6258.1	6258.1	6258.1	6258.1	6258.1	6258.1	6258.1	6258.1	6258.1	6258.1	6258.1
2.5°	6313.5	6299.7	6112.5	5994.7	5932.4	5807.6	5731.4	5675.9	5634.3	5585.8	5592.8
5°	6396.7	6348.2	6036.3	5821.5	5565.0	5426.4	5308.6	5211.6	5149.2	5135.4	5107.6
7.5°	6632.3	6375.9	5904.6	5516.5	5190.8	5052.2	4948.2	4885.9	4913.6	4851.2	4899.7
10°	6812.5	6431.3	5745.2	5183.9	4858.2	4754.2	4698.8	4747.3	4816.6	4788.8	4754.2
12.5°	7034.3	6486.8	5488.8	4865.1	4560.1	4483.9	4580.9	4671.0	4809.6	4865.1	4795.8
15°	7283.8	6549.2	5163.1	4497.8	4303.7	4366.1	4532.4	4691.8	4830.4	4899.7	4941.3
17.5°	7588.7	6528.4	4844.3	4206.7	4061.2	4241.4	4442.3	4587.9	4795.8	4899.7	4872.0
20°	7872.8	6459.1	4490.8	3915.6	3922.6	4088.9	4255.2	4490.8	4601.7	4740.3	4691.8
22.5°	8143.1	6334.3	4123.5	3714.7	3714.7	3971.1	4054.2	4206.7	4303.7	4373.0	4366.1
25°	8524.3	6098.7	3818.6	3520.6	3603.8	3770.1	3839.4	3887.9	3846.3	3901.8	3908.7
27.5°	8794.6	5856.1	3569.1	3347.3	3499.8	3624.6	3603.8	3576.0	3479.0	3402.8	3451.3
30°	9085.6	5572.0	3354.3	3229.5	3312.7	3423.6	3340.4	3257.2	3104.8	2980.0	2987.0
32.5°	9501.5	5440.3	3167.2	3090.9	3201.8	3215.7	3125.6	3000.8	2848.4	2730.5	2723.6
35°	10277.7	5357.1	3007.8	3000.8	3021.6	3028.5	2938.5	2786.0	2723.6	2626.6	2661.2
37.5°	11053.9	5315.6	2896.9	2869.2	2862.2	2869.2	2765.2	2619.7	2737.5	2730.5	2744.4
40°	12044.9	5502.7	2737.5	2702.8	2709.8	2709.8	2578.1	2536.5	2744.4	2765.2	2772.1
42.5°	13049.8	5738.3	2633.5	2522.6	2550.4	2550.4	2481.1	2432.5	2578.1	2439.5	2418.7
45°	13923.0	6084.8	2522.6	2342.4	2411.8	2446.4	2425.6	2342.4	2252.4	2016.7	2016.7
47.5°	14207.2	6389.8	2391.0	2169.2	2224.6	2377.1	2314.7	2141.5	1982.1	1788.0	1774.2
50°	14706.1	6722.4	2287.0	1968.2	2086.0	2273.1	2210.8	2037.5	1857.3	1718.7	1725.6
52.5°	15219.0	7103.6	2093.0	1732.6	1878.1	2190.0	2190.0	1995.9	1718.7	1621.7	1607.8
55°	15988.2	7089.7	1746.4	1420.7	1677.1	2065.2	2099.9	1788.0	1538.5	1462.3	1462.3
56°	16099.1	6770.9	1573.2	1330.6	1587.0	2030.6	2037.5	1732.6	1469.2	1386.1	1386.1
57.5°	15267.5	6112.5	1379.1	1219.7	1476.2	1968.2	1975.1	1684.1	1413.8	1296.0	1282.1
60°	11746.9	4137.4	1150.4	1088.1	1337.6	1774.2	1808.8	1531.6	1240.5	1150.4	1143.5
62.5°	6632.3	2293.9	1011.8	984.1	1150.4	1510.8	1614.8	1337.6	1053.4	1004.9	1018.8
65°	3028.5	1261.3	852.4	797.0	928.7	1164.3	1302.9	1101.9	866.3	810.8	810.8
67.5°	1108.9	859.4	727.7	630.7	651.4	755.4	845.5	713.8	575.2	492.1	512.8
70°	790.1	720.8	637.6	547.5	505.9	492.1	485.1	402.0	284.1	221.8	235.6
72.5°	637.6	596.0	533.6	464.3	395.0	332.7	284.1	207.9	131.7	90.1	83.2
75°	457.4	436.6	388.1	332.7	277.2	235.6	194.0	131.7	69.3	34.7	34.7
77.5°	235.6	235.6	228.7	207.9	173.3	138.6	110.9	76.2	41.6	13.9	13.9
80°	180.2	194.0	201.0	180.2	159.4	124.7	90.1	55.4	27.7	6.9	6.9
82.5°	173.3	201.0	214.8	187.1	159.4	117.8	90.1	55.4	27.7	6.9	6.9
85°	41.6	41.6	62.4	69.3	90.1	97.0	76.2	48.5	20.8	6.9	6.9
87.5°	13.9	13.9	13.9	13.9	13.9	13.9	6.9	6.9	6.9	6.9	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)