

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: P531248

Luminaire Tested: **GALN-SA6C-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32916 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

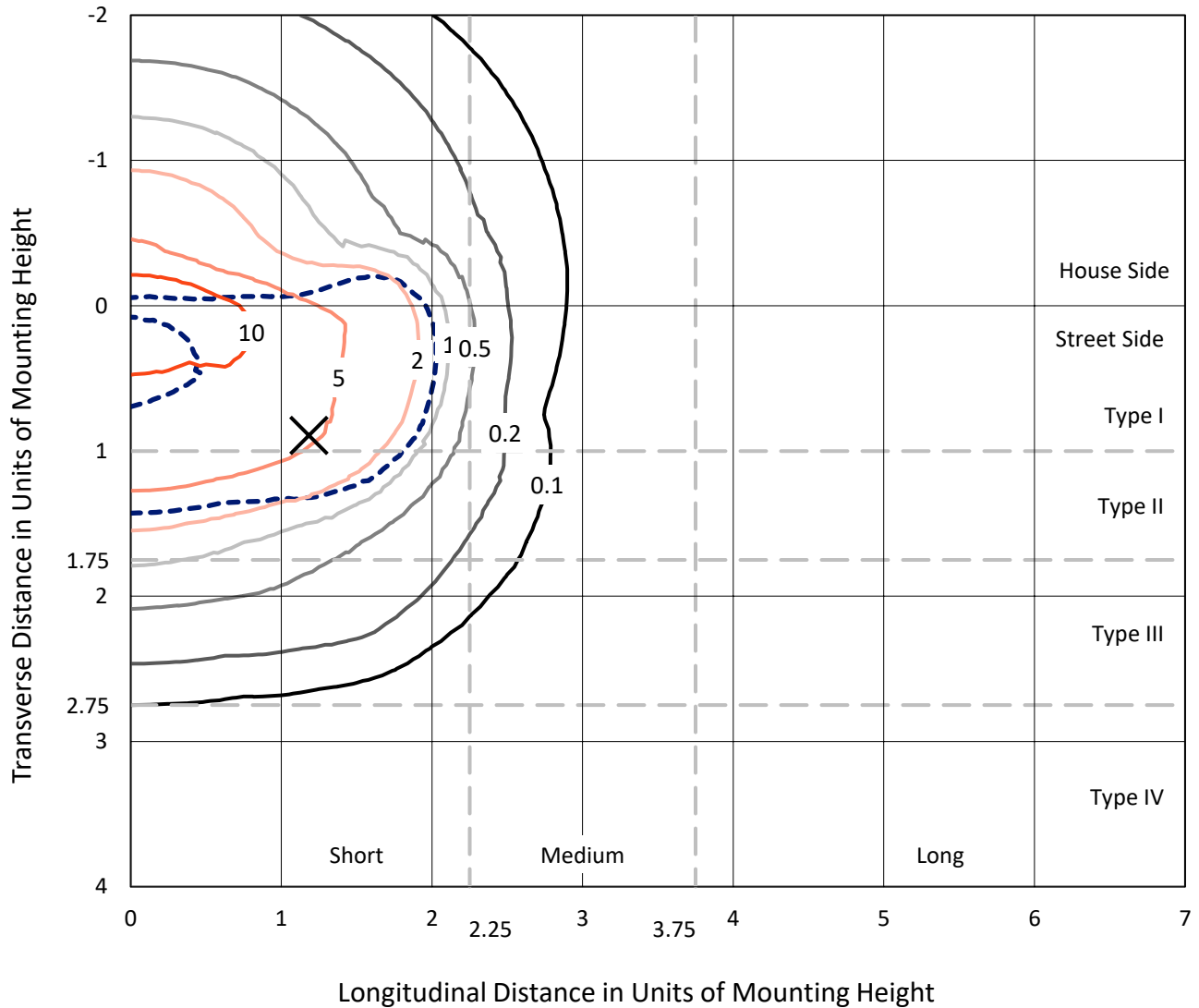
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

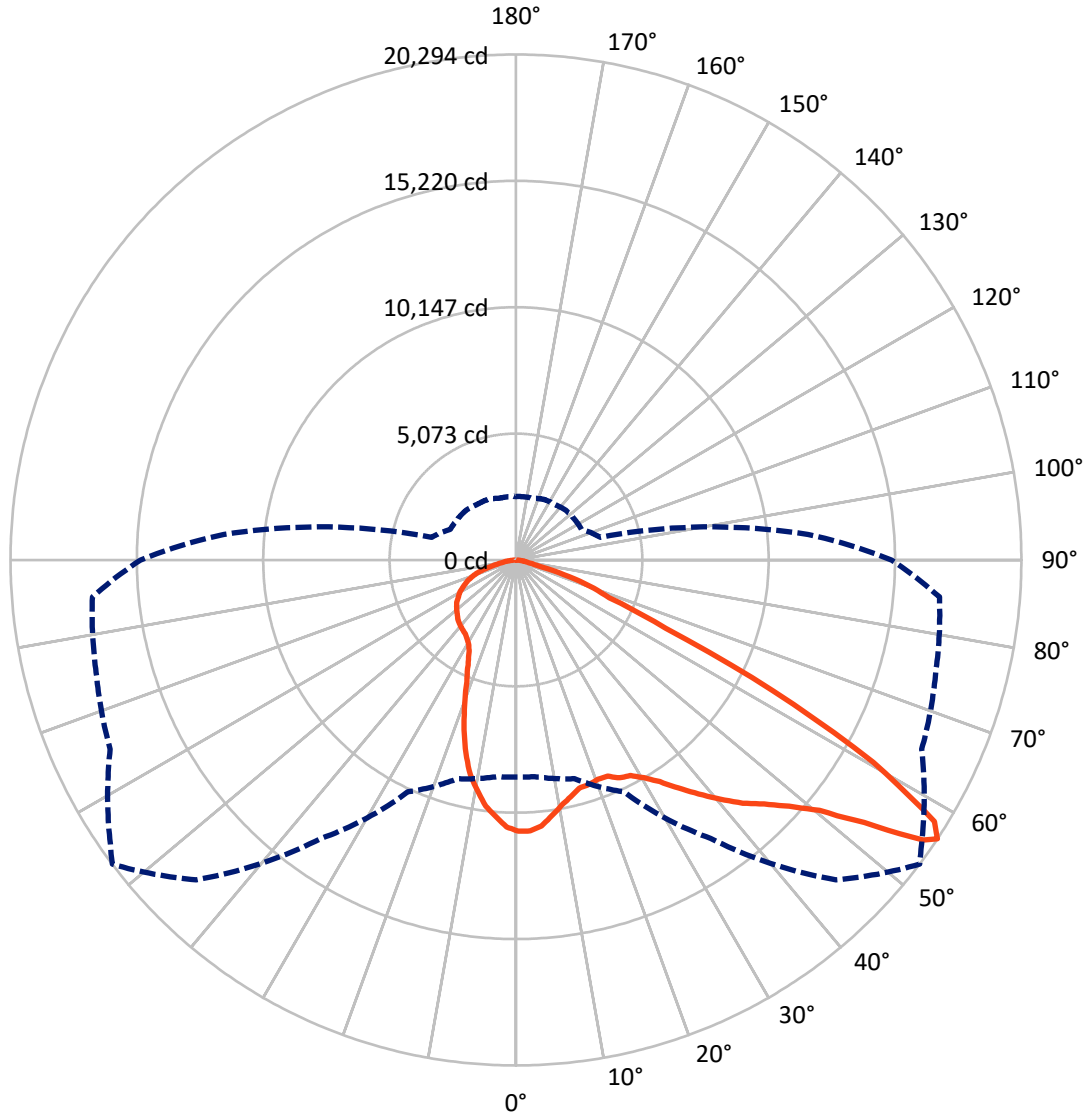
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9605.6	0.0	9605.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	23310.4	0.0	23310.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	32916.0	0.0	32916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	964.1	2.9
10°-20°	2407.8	7.3
20°-30°	3550.5	10.8
30°-40°	5073.0	15.4
40°-50°	6982.4	21.2
50°-60°	8251.3	25.1
60°-70°	4397.4	13.4
70°-80°	1115.6	3.4
80°-90°	174.0	0.5
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°	32916.0	100.0
0°-180°	32916.0	100.0

Coefficient of Utilization



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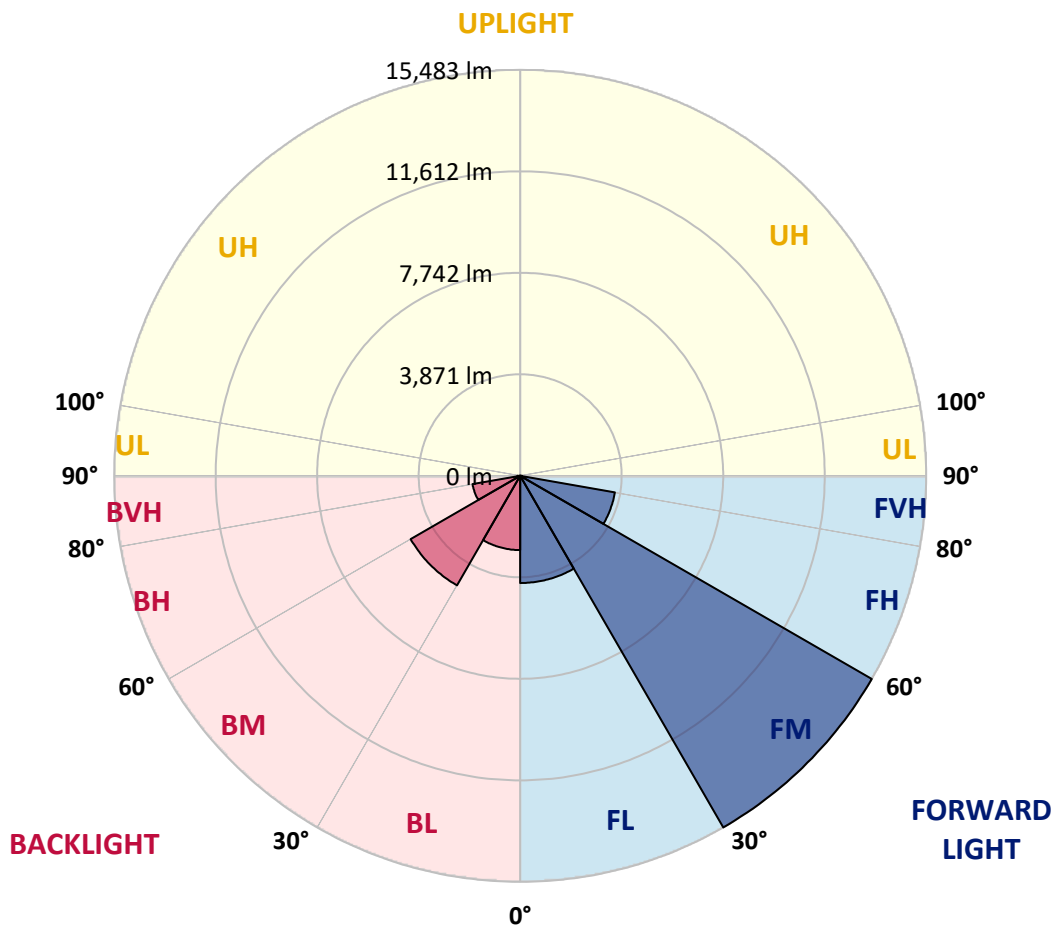
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4089.3	12.4			
FM (30°-60°)	15483.0	47.0			
FH (60°-80°)	3668.1	11.1			G2/5000
FVH (80°-90°)	69.9	0.2			G1/100
BL (0°-30°)	2833.1	8.6	B4/5000		
BM (30°-60°)	4823.6	14.7	B3/5000		
BH (60°-80°)	1844.9	5.6	B3/2500		G3/2500
BVH (80°-90°)	104.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10889.9	10889.9	10889.9	10889.9	10889.9	10889.9	10889.9	10889.9	10889.9	10889.9	10889.9
2.5°	10754.8	10661.9	10716.8	10695.7	10868.8	10919.5	10894.1	10915.2	11012.4	10965.9	10868.8
5°	10049.6	10180.5	10205.9	10269.2	10370.5	10569.0	10725.2	10767.5	10813.9	11029.3	11008.1
7.5°	9407.8	9496.5	9450.0	9635.8	9855.4	10176.3	10366.3	10400.1	10826.6	10944.8	11033.5
10°	9002.4	8913.8	9124.9	9175.6	9424.7	9792.1	10020.1	10159.4	10547.9	11016.6	11071.5
12.5°	8626.6	8597.1	8723.8	8867.3	9146.0	9526.0	9758.3	9813.2	10412.8	10906.8	11164.4
15°	8347.9	8314.2	8440.8	8546.4	8871.5	9209.3	9504.9	9661.2	10265.0	10843.5	11084.1
17.5°	8128.4	8124.2	8195.9	8385.9	8719.5	9002.4	9479.6	9488.0	10189.0	10940.6	11151.7
20°	8115.7	8111.5	8124.2	8335.3	8639.3	8985.5	9399.4	9475.4	10189.0	10873.0	11155.9
22.5°	8221.3	8153.7	8229.7	8364.8	8584.4	9015.1	9428.9	9597.8	10433.9	11206.6	11345.9
25°	8390.2	8407.1	8449.3	8495.7	8622.4	9082.7	9690.7	9830.1	10721.0	11493.7	11607.7
27.5°	8698.4	8690.0	8706.9	8732.2	8842.0	9146.0	9796.3	10155.2	11320.6	12004.7	11890.7
30°	9150.2	9120.7	9188.2	9276.9	9175.6	9348.7	10146.7	10417.0	11878.0	12519.8	12207.3
32.5°	9559.8	9669.6	9796.3	9834.3	9711.8	9745.6	10611.2	10885.7	12342.5	13153.2	12595.8
35°	10070.7	10159.4	10328.3	10446.5	10425.4	10324.1	11244.6	11607.7	13013.8	13617.7	13005.4
37.5°	10569.0	10674.6	10953.2	11303.7	11109.5	11063.0	11920.2	12220.0	13220.7	13866.8	13305.2
40°	11371.3	11367.1	11848.4	12030.0	12203.1	12122.9	12621.1	12722.5	13330.5	13811.9	13313.6
42.5°	12312.9	12253.8	12743.6	13026.5	13250.3	13258.8	13351.6	13317.9	13381.2	13533.2	13225.0
45°	13208.1	13334.8	13828.8	14335.5	14559.3	14584.6	13968.1	13904.8	13469.9	13453.0	13056.1
47.5°	14301.7	14331.3	14736.6	15403.8	15923.2	15745.8	14766.2	14626.9	13858.4	13989.2	13339.0
50°	14365.1	14584.6	14947.8	15733.2	17329.3	17282.8	15800.7	15538.9	14483.3	14749.3	14128.6
52.5°	13039.2	12988.5	13419.2	14702.9	17223.7	18811.4	17515.1	16890.1	15826.0	15623.4	15408.0
55°	9935.6	10053.8	10433.9	11730.2	14956.2	18832.5	19850.1	19339.2	17261.7	16915.5	16666.3
56°	8715.3	8732.2	9091.1	10273.4	13647.2	18161.1	20293.5	19879.7	17975.3	17447.5	17067.5
57.5°	7224.8	7127.6	7313.4	7959.5	11519.1	16742.3	19807.9	20213.3	18811.4	18021.8	17494.0
60°	5687.8	5666.6	5590.6	5708.9	7279.6	12612.7	16489.0	17401.1	18726.9	17481.3	16755.0
62.5°	4644.8	4539.2	4691.2	4860.1	5058.6	7824.4	11586.6	12122.9	14867.5	13955.5	12587.4
65°	3601.8	3551.1	3741.2	4290.1	4408.3	4969.9	6599.8	7013.6	8778.6	8622.4	7592.1
67.5°	2478.6	2487.1	2651.8	3487.8	4087.4	4036.7	4041.0	4256.3	4581.4	3403.4	2964.2
70°	1570.8	1566.6	1655.2	2246.4	3289.4	3323.1	3154.2	3090.9	2930.4	1773.5	1879.0
72.5°	1009.2	979.6	1026.1	1241.4	1701.7	1967.7	2026.8	2064.8	1697.5	1393.4	1511.7
75°	570.0	540.5	523.6	578.5	671.4	776.9	853.0	878.3	983.8	1055.6	1119.0
77.5°	173.1	156.2	190.0	253.4	333.6	447.6	544.7	561.6	662.9	747.4	810.7
80°	76.0	84.5	118.2	168.9	236.5	316.7	384.3	409.6	477.1	540.5	557.4
82.5°	46.4	50.7	80.2	114.0	164.7	223.8	274.5	282.9	350.5	401.1	413.8
85°	16.9	21.1	42.2	67.6	105.6	143.6	143.6	156.2	143.6	143.6	156.2
87.5°	0.0	0.0	4.2	8.4	8.4	12.7	16.9	16.9	21.1	25.3	29.6
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°	10889.9	10889.9	10889.9	10889.9	10889.9	10889.9	10889.9	10889.9	10889.9	10889.9	10889.9
2.5°	10919.5	10898.4	10864.6	10742.1	10729.5	10691.5	10480.3	10446.5	10480.3	10379.0	10387.4
5°	10898.4	10961.7	10708.3	10585.9	10357.9	10193.2	10003.2	9906.1	9732.9	9623.2	9745.6
7.5°	10991.3	10965.9	10649.2	10383.2	10041.2	9623.2	9289.6	9099.6	8795.5	8711.1	8774.4
10°	10957.5	10822.3	10450.8	10100.3	9454.2	9086.9	8546.4	8022.8	7735.7	7587.9	7566.8
12.5°	10911.0	10873.0	10252.3	9648.5	8968.7	8195.9	7435.9	6941.8	6473.1	6270.5	6300.0
15°	10965.9	10645.0	9880.7	9116.4	8212.8	7199.4	6380.2	5742.6	5417.5	5286.6	5286.6
17.5°	10940.6	10535.2	9703.4	8521.1	7376.8	6177.6	5278.2	4893.9	4758.8	4758.8	4796.8
20°	10953.2	10607.0	9344.5	7925.7	6388.7	5202.2	4547.7	4408.3	4467.4	4488.6	4509.7
22.5°	11025.0	10370.5	8994.0	7271.2	5472.4	4450.5	4129.6	4133.9	4239.4	4353.4	4332.3
25°	11113.7	10277.6	8567.5	6620.9	4771.5	4083.2	3981.8	3969.2	4049.4	4108.5	4117.0
27.5°	11037.7	10117.2	8132.6	5810.2	4197.2	3838.3	3817.2	3825.6	3850.9	3969.2	3931.2
30°	11286.8	10163.6	7587.9	5130.4	3880.5	3758.1	3732.7	3720.1	3758.1	3791.8	3762.3
32.5°	11595.1	9999.0	7182.5	4475.9	3724.3	3698.9	3648.3	3631.4	3652.5	3618.7	3635.6
35°	11730.2	9969.4	6654.7	4007.2	3601.8	3580.7	3551.1	3546.9	3551.1	3521.6	3496.3
37.5°	11806.2	10108.7	6050.9	3791.8	3525.8	3546.9	3479.4	3470.9	3394.9	3411.8	3424.5
40°	11937.1	9893.4	5561.1	3584.9	3479.4	3437.1	3378.0	3365.4	3314.7	3285.1	3314.7
42.5°	11747.1	9830.1	5079.7	3496.3	3411.8	3365.4	3323.1	3251.3	3234.5	3209.1	3192.2
45°	11595.1	9466.9	4649.0	3386.5	3331.6	3306.2	3226.0	3150.0	3086.7	3112.0	3074.0
47.5°	11709.1	9340.2	4222.5	3293.6	3221.8	3192.2	3112.0	3052.9	2989.6	2960.0	2951.5
50°	12165.1	9576.7	3863.6	3226.0	3128.9	3112.0	3006.4	2938.9	2879.8	2858.7	2867.1
52.5°	13254.5	10222.7	3618.7	3086.7	3040.2	2964.2	2905.1	2820.7	2782.6	2715.1	2757.3
55°	14635.3	11274.2	3555.4	2955.8	2930.4	2862.9	2782.6	2719.3	2647.5	2592.6	2580.0
56°	15078.7	11776.6	3504.7	2905.1	2862.9	2824.9	2719.3	2681.3	2567.3	2554.6	2546.2
57.5°	15437.6	12220.0	3513.1	2808.0	2765.8	2732.0	2668.6	2575.7	2499.7	2453.3	2474.4
60°	14626.9	11438.8	3352.7	2660.2	2651.8	2588.4	2499.7	2457.5	2364.6	2309.7	2297.1
62.5°	10873.0	7765.2	2719.3	2470.2	2466.0	2398.4	2297.1	2250.6	2233.7	2157.7	2157.7
65°	6262.0	4868.6	2352.0	2313.9	2280.2	2212.6	2111.3	2073.3	2031.0	2005.7	1984.6
67.5°	2672.9	2525.1	2136.6	2132.4	2094.4	2009.9	1908.6	1849.5	1794.6	1743.9	1769.2
70°	1938.1	1967.7	1929.7	1908.6	1862.1	1756.6	1667.9	1596.1	1511.7	1477.9	1503.2
72.5°	1537.0	1600.3	1655.2	1659.5	1604.6	1482.1	1385.0	1287.9	1195.0	1148.5	1169.6
75°	1165.4	1207.6	1262.5	1275.2	1195.0	1110.5	1017.6	916.3	844.5	789.6	798.1
77.5°	840.3	831.8	882.5	874.1	836.1	776.9	692.5	599.6	519.4	468.7	472.9
80°	574.3	586.9	616.5	612.3	565.8	527.8	464.5	388.5	329.4	287.1	278.7
82.5°	401.1	422.3	447.6	426.5	388.5	350.5	304.0	249.1	202.7	168.9	160.5
85°	143.6	164.7	190.0	202.7	215.3	206.9	173.1	139.3	101.3	84.5	80.2
87.5°	29.6	33.8	38.0	38.0	38.0	33.8	29.6	29.6	25.3	12.7	12.7
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)