

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: P646994

Luminaire Tested: **GALN-SA6C-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19053.5 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

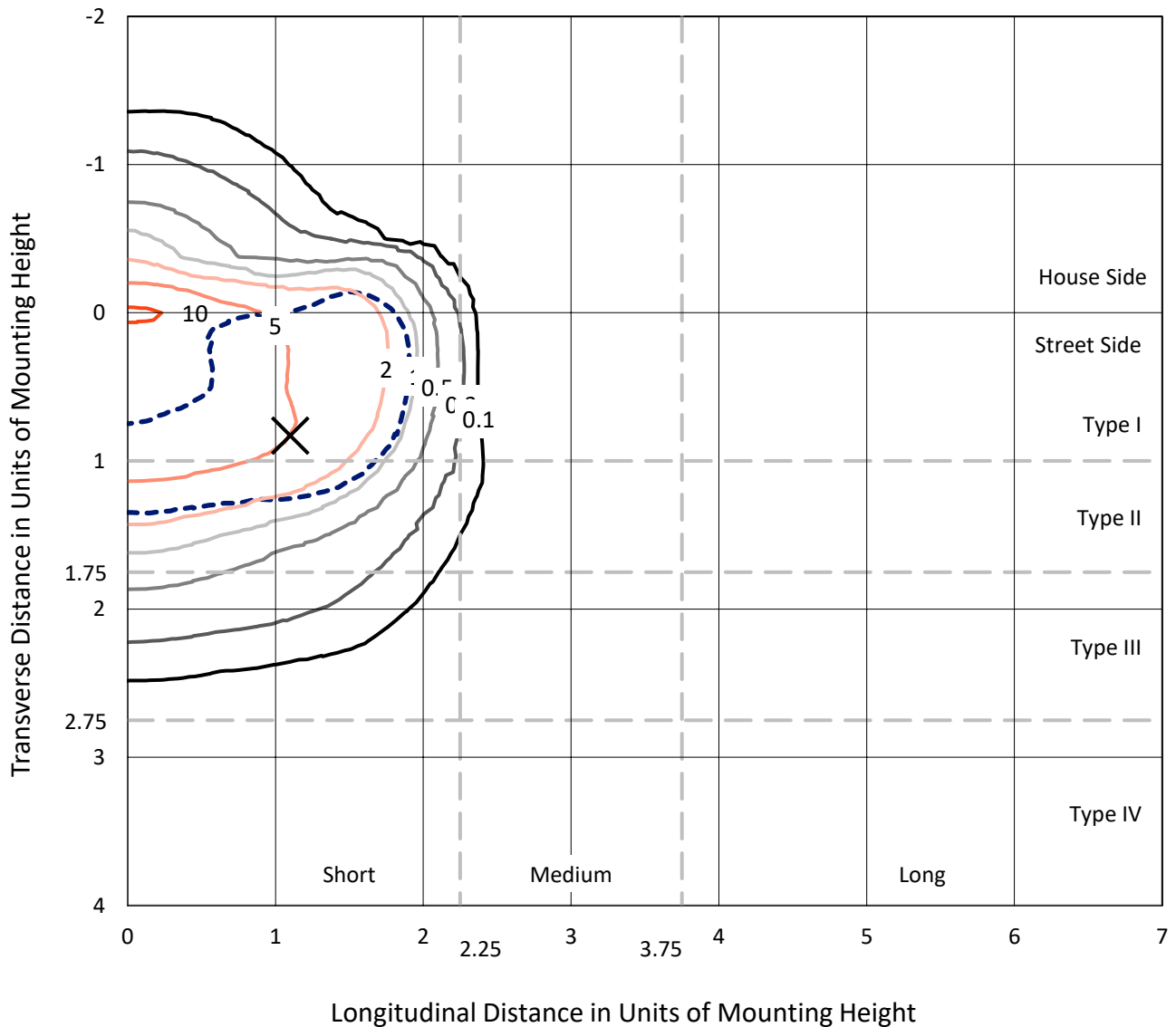
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

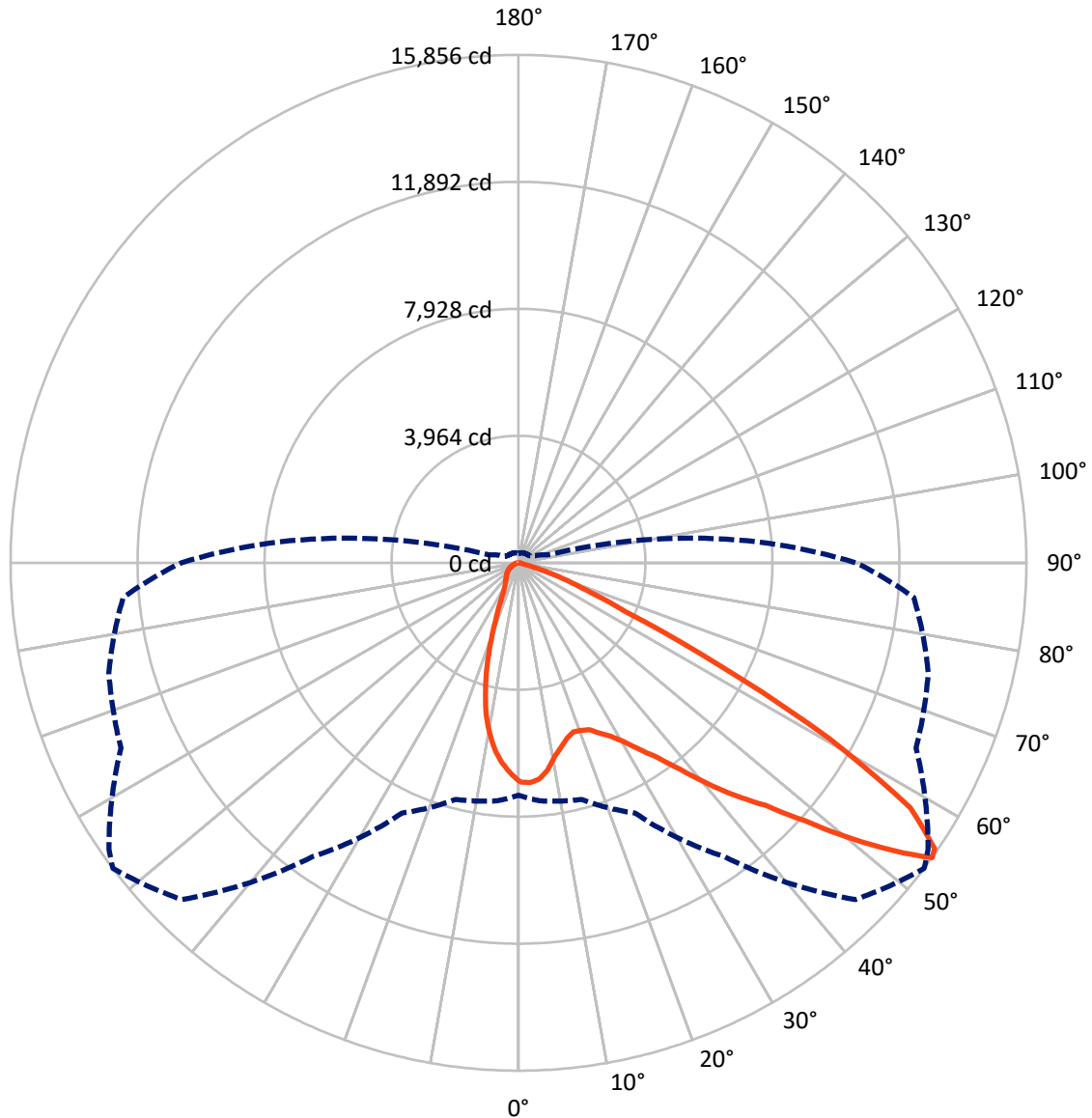
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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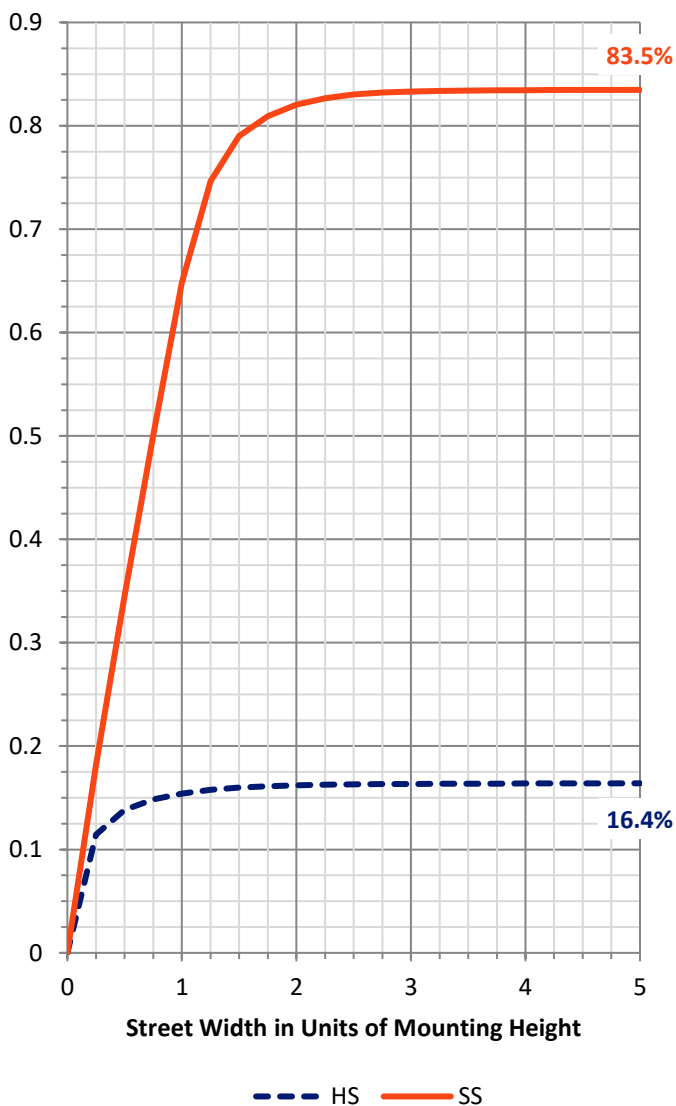
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3152.4	0.0	3152.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	15901.1	0.0	15901.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	19053.5	0.0	19053.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.2	3.1
10°-20°	1346.2	7.1
20°-30°	1913.3	10.0
30°-40°	2952.6	15.5
40°-50°	4629.5	24.3
50°-60°	5377.8	28.2
60°-70°	2032.0	10.7
70°-80°	193.2	1.0
80°-90°	21.7	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°	19053.5	100.0
0°-180°	19053.5	100.0

Coefficient of Utilization

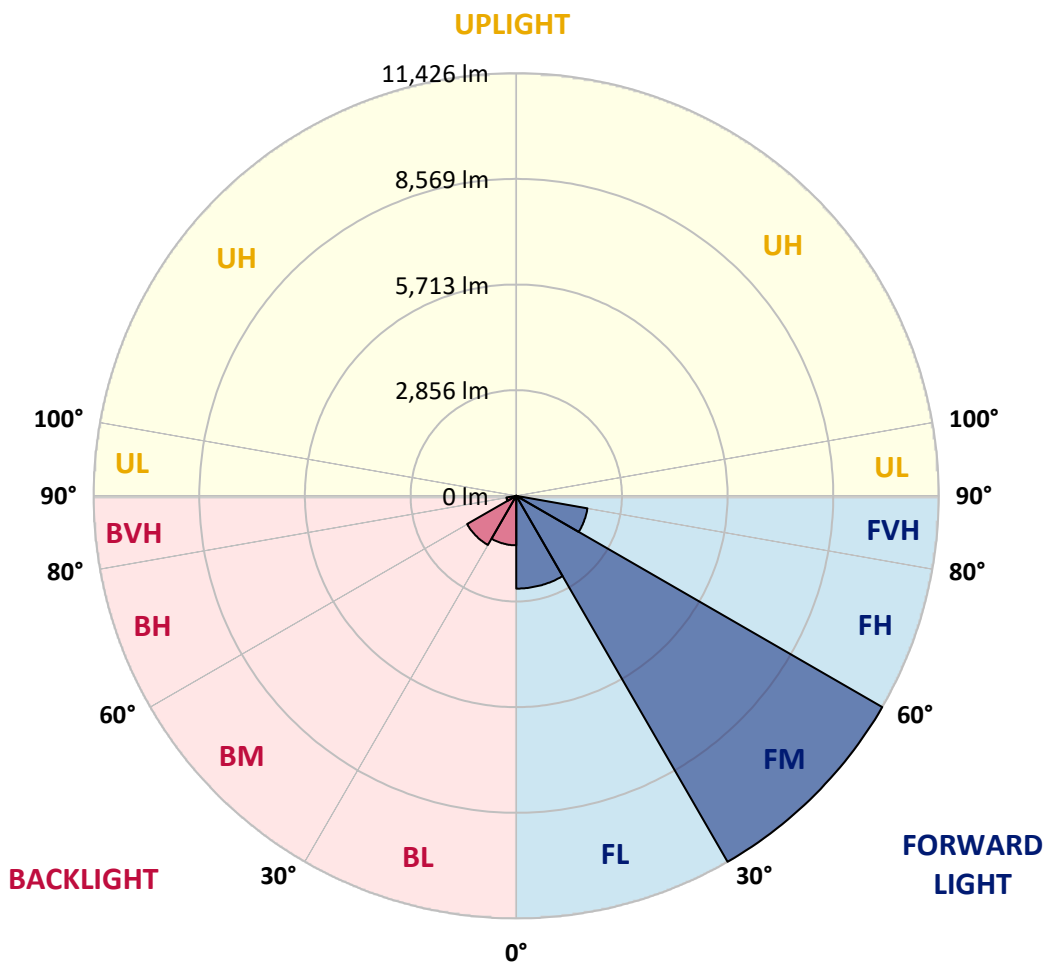


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2508.9	13.2			
FM (30°-60°)	11425.8	60.0			
FH (60°-80°)	1955.2	10.3			G2/5000
FVH (80°-90°)	11.2	0.1			G1/100
BL (0°-30°)	1337.8	7.0	B3/2500		
BM (30°-60°)	1534.1	8.1	B2/2500		
BH (60°-80°)	270.1	1.4	B1/500		G1/500
BVH (80°-90°)	10.5	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°	53°	55°	65°	75°	85°
0°	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7
2.5°	6808.2	6747.9	6808.2	6815.3	6857.9	6897.0	6872.1	6928.9	6897.0	6861.4	6850.8
5°	6258.0	6339.6	6343.2	6471.0	6442.6	6676.9	6779.8	6751.4	6925.3	6914.7	6889.9
7.5°	5764.6	5732.7	5775.3	5924.3	6112.5	6382.2	6531.3	6527.8	6776.2	6953.7	6936.0
10°	5306.7	5303.2	5391.9	5509.0	5668.8	5952.8	6158.6	6261.6	6648.5	6918.3	6957.3
12.5°	4997.9	4983.7	5079.6	5175.4	5427.4	5647.5	5910.2	5959.9	6403.5	6794.0	6857.9
15°	4795.6	4827.5	4834.6	5019.2	5178.9	5470.0	5675.9	5778.8	6290.0	6694.6	6939.6
17.5°	4760.1	4802.7	4806.2	4958.8	5129.2	5374.1	5555.2	5693.6	6194.2	6744.3	6943.1
20°	4831.0	4806.2	4827.5	4923.3	5090.2	5324.5	5587.1	5633.3	6162.2	6769.2	6982.2
22.5°	5033.4	5026.3	4973.1	5051.1	5168.3	5413.2	5661.6	5732.7	6254.4	6897.0	7014.1
25°	5257.0	5296.1	5246.3	5235.7	5317.4	5558.8	5888.9	5981.2	6563.3	7127.6	7113.5
27.5°	5675.9	5636.8	5636.8	5587.1	5565.8	5682.9	6133.8	6286.4	6907.6	7425.8	7227.1
30°	6077.0	6119.6	6087.7	6105.4	5963.4	5952.8	6481.7	6669.8	7518.1	7880.2	7468.4
32.5°	6712.3	6655.6	6708.8	6662.7	6474.5	6282.9	6953.7	7148.9	8256.4	8402.0	7830.5
35°	7241.3	7216.4	7443.6	7436.5	7131.3	6943.1	7454.2	7745.3	8771.2	9026.7	8256.4
37.5°	7993.8	7947.6	8206.8	8331.0	8057.7	7777.2	8171.2	8508.5	9250.4	9527.2	8693.1
40°	8767.6	8884.8	9232.6	9438.5	9147.4	8774.7	9048.0	9151.0	9569.8	9853.8	8991.3
42.5°	9747.3	9917.7	10272.6	10450.2	10425.3	10020.6	9939.0	9935.4	9800.6	9761.5	9211.3
45°	10688.0	10624.1	11170.7	11557.6	11870.0	11752.8	10798.0	10691.5	10166.2	9899.9	9268.1
47.5°	11099.7	11078.4	11451.1	12139.8	13204.7	13350.2	12047.5	11635.7	10783.8	10482.1	9577.0
50°	10567.3	10677.3	11046.5	11809.7	13442.5	14553.5	13580.9	13027.2	11504.4	11192.0	10308.1
52.5°	8827.9	8902.5	9253.9	10222.9	12633.2	15263.4	15050.4	14731.0	12828.4	12310.2	11582.4
54°	7259.0	7457.8	7649.4	8622.1	11192.0	14869.4	15856.2	15611.3	13691.0	13240.1	12384.7
55°	6321.9	6439.1	6577.5	7546.6	10194.6	14202.1	15764.0	15785.3	14269.5	13531.3	12924.2
57.5°	4618.1	4699.7	4557.8	4987.2	6999.9	11532.8	14418.6	14993.7	15050.4	13967.9	13254.4
60°	3528.4	3563.8	3404.1	3471.5	4351.8	7915.7	11153.0	11845.1	13577.4	12207.2	11227.5
62.5°	2736.7	2743.9	2740.3	2857.5	2999.4	4657.1	6975.0	7589.1	9360.4	8668.2	7624.6
65°	2016.2	1984.3	2041.0	2396.0	2559.3	2928.4	3673.9	4121.2	5086.6	4295.1	3070.5
67.5°	1306.3	1316.9	1373.7	1782.0	2193.7	2246.9	2261.1	2225.6	2229.2	1228.2	770.2
70°	784.5	802.2	784.5	1008.1	1569.0	1611.6	1473.1	1437.6	1121.6	291.0	287.5
72.5°	465.0	440.1	394.0	433.1	653.1	780.9	702.8	699.3	440.1	170.4	170.4
75°	195.2	177.5	145.6	131.3	173.9	166.9	166.9	149.1	117.1	113.6	106.5
77.5°	39.1	39.1	28.4	31.9	42.6	49.7	60.4	60.4	71.0	71.0	67.4
80°	0.0	3.5	10.6	21.3	31.9	46.1	53.2	53.2	60.4	60.4	49.7
82.5°	0.0	3.5	10.6	21.3	28.4	42.6	53.2	53.2	60.4	63.9	53.2
85°	0.0	3.5	10.6	17.8	28.4	35.5	35.5	31.9	24.8	21.3	14.2
87.5°	0.0	0.0	3.5	7.1	3.5	7.1	7.1	7.1	7.1	7.1	7.1
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°	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7
2.5°	6875.7	6872.1	6786.9	6648.5	6616.5	6499.4	6485.2	6414.2	6453.3	6321.9	6307.7
5°	6818.8	6776.2	6673.4	6584.6	6325.5	6140.9	5995.4	5817.8	5714.9	5732.7	5665.2
7.5°	6900.5	6790.5	6609.5	6300.6	5984.7	5661.6	5487.7	5125.7	4994.4	4799.1	4770.7
10°	6815.3	6733.6	6453.3	5942.1	5505.5	5040.5	4632.3	4231.2	3925.9	3794.6	3766.2
12.5°	6808.2	6666.2	6197.7	5629.7	4997.9	4330.5	3737.8	3237.2	2935.5	2765.2	2726.1
15°	6698.2	6527.8	5910.2	5147.0	4273.8	3443.2	2797.1	2314.4	2083.6	1984.3	2012.6
17.5°	6708.8	6453.3	5622.6	4635.8	3560.3	2527.4	1909.7	1661.2	1600.9	1625.7	1625.7
20°	6698.2	6286.4	5274.8	4046.6	2726.1	1753.5	1402.1	1313.4	1352.4	1430.5	1412.8
22.5°	6641.4	6208.3	4955.3	3425.4	2005.6	1299.2	1125.2	1128.8	1189.1	1285.0	1306.3
25°	6684.0	6034.4	4550.6	2797.1	1462.5	1036.5	976.2	1001.0	1064.9	1135.9	1150.1
27.5°	6652.1	5910.2	4128.2	2172.4	1068.4	891.0	887.4	915.8	944.2	997.5	997.5
30°	6687.5	5796.5	3712.9	1615.1	880.3	816.4	802.2	823.5	851.9	862.6	859.0
32.5°	6818.8	5711.4	3233.7	1206.9	777.4	745.4	745.4	745.4	741.9	756.1	759.6
35°	7106.4	5725.5	2811.3	933.6	709.9	685.0	674.4	660.2	653.1	660.2	663.7
37.5°	7418.8	5718.5	2374.7	795.1	660.2	638.9	614.1	592.8	589.2	596.3	585.7
40°	7557.2	5785.9	1970.0	713.5	614.1	589.2	550.2	532.4	536.0	543.1	536.0
42.5°	7745.3	5807.2	1707.4	649.6	571.5	532.4	507.6	486.3	482.7	493.4	489.8
45°	7741.8	5686.5	1430.5	614.1	532.4	489.8	457.9	440.1	440.1	447.2	450.8
47.5°	7968.9	5668.8	1228.2	582.2	504.0	461.4	422.4	408.2	404.7	404.7	397.5
50°	8497.8	5917.2	1072.0	546.6	468.5	429.5	397.5	379.8	365.6	358.5	354.9
52.5°	9530.8	6691.0	951.3	504.0	429.5	397.5	369.2	354.9	337.2	319.5	315.9
54°	10531.7	7489.7	944.2	468.5	397.5	376.2	351.4	344.3	323.0	298.2	291.0
55°	10982.6	7954.7	969.0	440.1	376.2	362.1	340.8	333.6	312.3	284.0	280.4
57.5°	11355.3	8135.8	954.9	365.6	340.8	337.2	319.5	308.8	284.0	244.9	237.8
60°	9140.4	6151.6	685.0	323.0	312.3	305.3	291.0	284.0	252.0	209.5	205.9
62.5°	5775.3	3539.0	436.6	284.0	273.3	262.7	244.9	237.8	209.5	166.9	156.2
65°	2459.9	1466.0	294.6	252.0	234.3	216.5	202.3	191.7	166.9	124.3	120.7
67.5°	638.9	521.8	244.9	220.1	195.2	170.4	159.7	142.0	113.6	85.2	81.7
70°	287.5	262.7	205.9	184.6	156.2	131.3	117.1	99.4	74.5	56.8	53.2
72.5°	170.4	166.9	156.2	138.4	117.1	99.4	85.2	67.4	49.7	31.9	31.9
75°	106.5	103.0	106.5	95.8	81.7	74.5	63.9	46.1	28.4	14.2	14.2
77.5°	63.9	63.9	63.9	60.4	56.8	56.8	46.1	28.4	14.2	3.5	3.5
80°	49.7	49.7	53.2	49.7	49.7	49.7	39.1	21.3	7.1	0.0	0.0
82.5°	49.7	53.2	60.4	56.8	49.7	42.6	35.5	21.3	7.1	0.0	0.0
85°	14.2	10.6	17.8	24.8	35.5	31.9	24.8	17.8	7.1	0.0	0.0
87.5°	7.1	7.1	7.1	7.1	3.5	3.5	3.5	3.5	3.5	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)