

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: P646959

Luminaire Tested: **GALN-SA5C-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23123.6 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

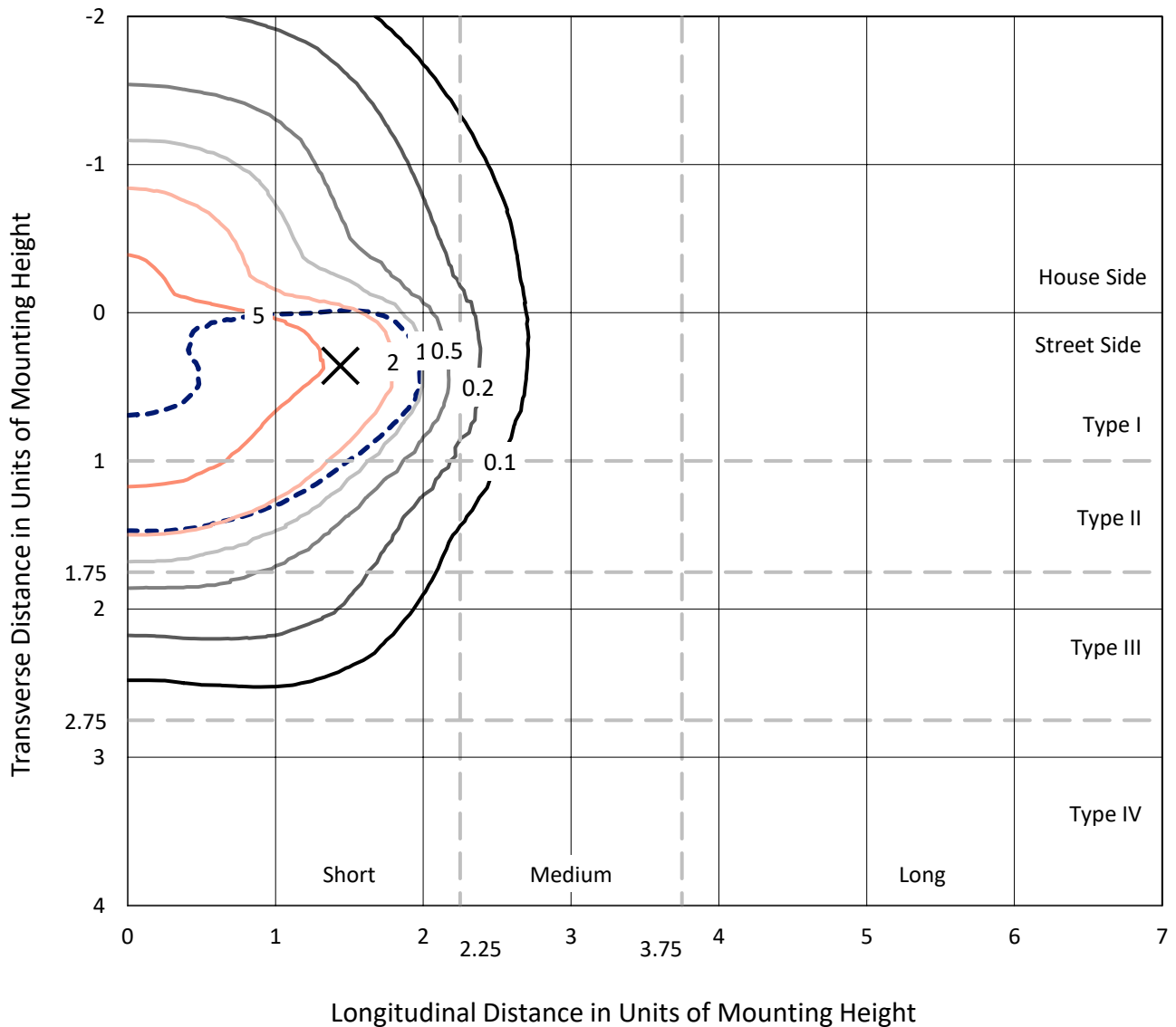
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

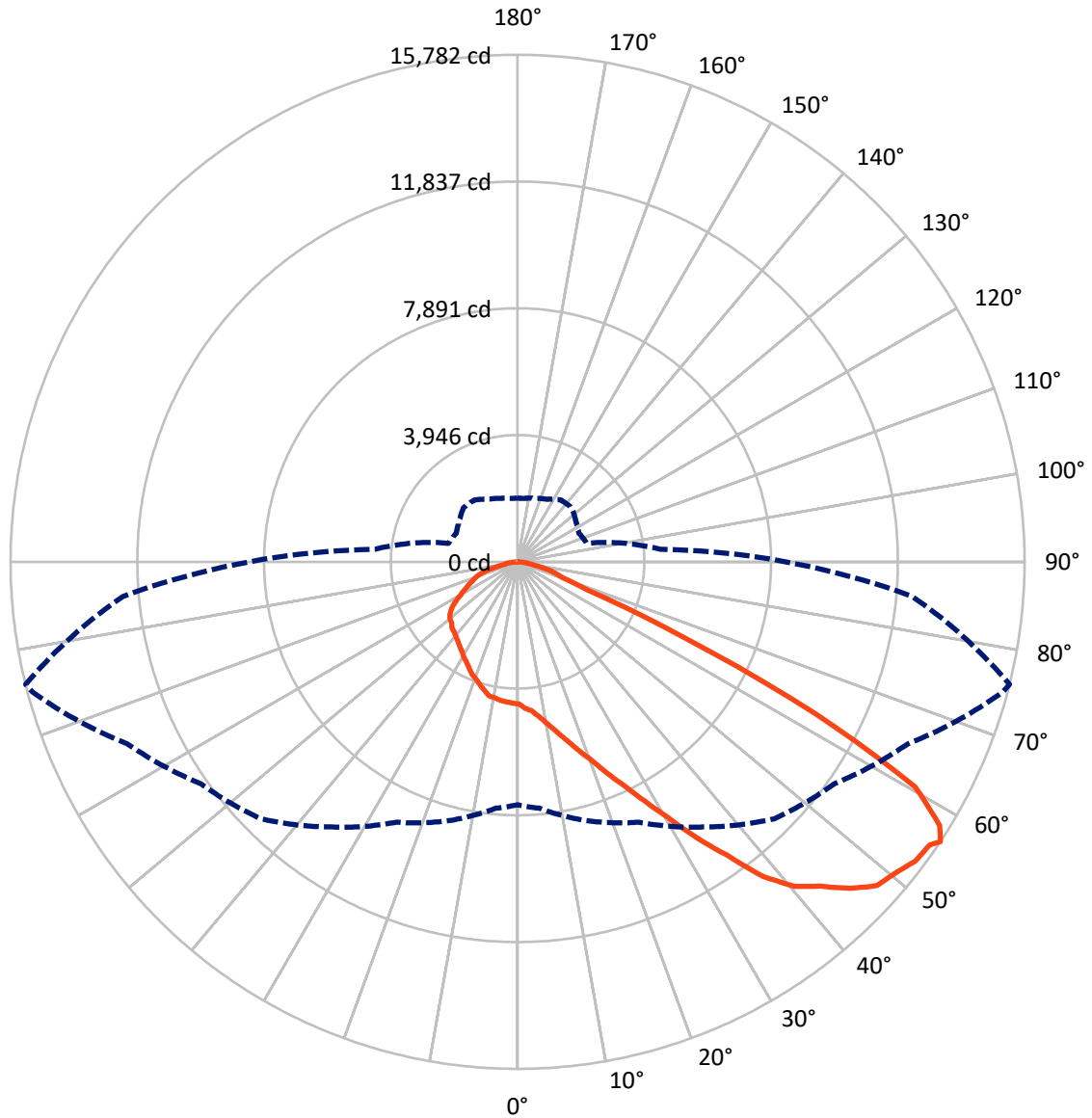
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA5C-835-U-T2-GRSWH

Luminous Intensity Polar Plot



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

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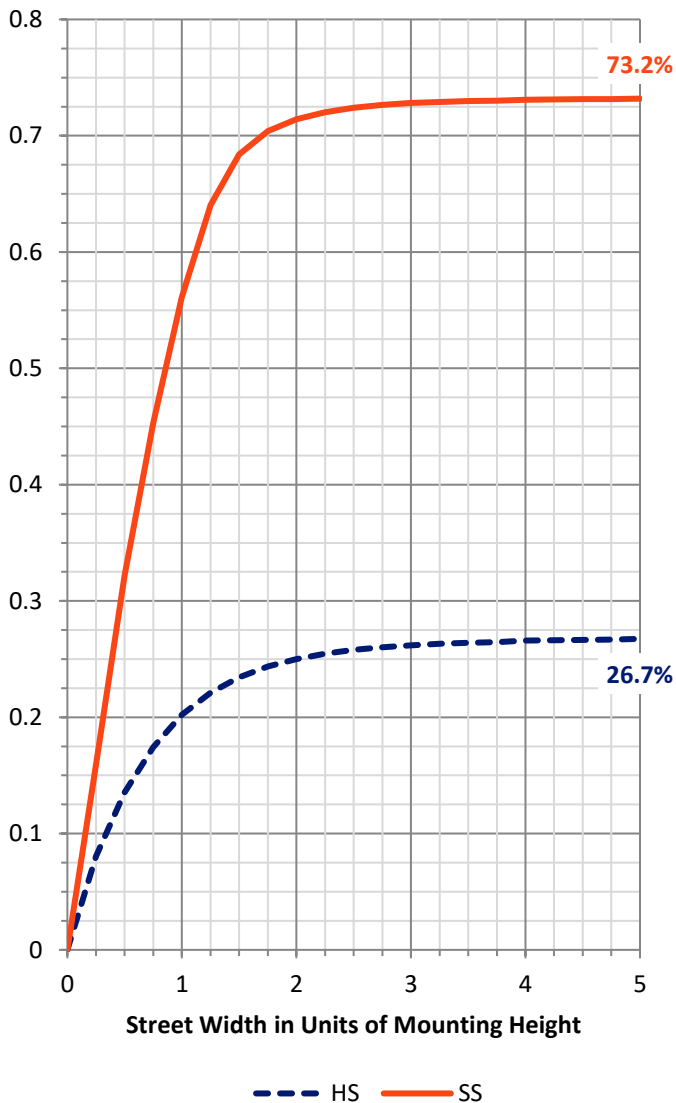
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6217.2	0.0	6217.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	16906.3	0.0	16906.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	23123.6	0.0	23123.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.8	1.9
10°-20°	1378.3	6.0
20°-30°	2410.5	10.4
30°-40°	3774.1	16.3
40°-50°	5490.3	23.7
50°-60°	6034.1	26.1
60°-70°	2693.4	11.6
70°-80°	778.0	3.4
80°-90°	126.2	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°	23123.6	100.0
0°-180°	23123.6	100.0

Coefficient of Utilization

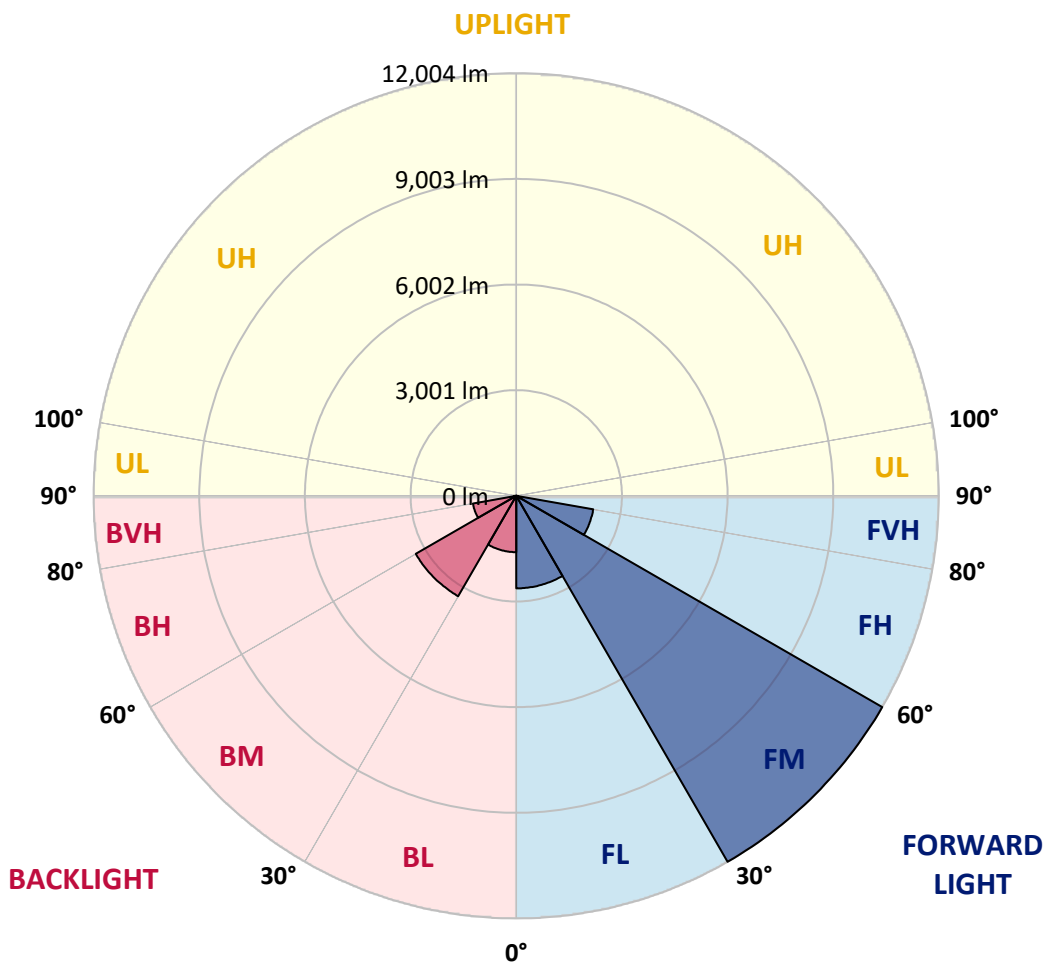


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2627.7	11.4			
FM (30°-60°)	12003.9	51.9			
FH (60°-80°)	2220.4	9.6			G2/5000
FVH (80°-90°)	54.3	0.2			G1/100
BL (0°-30°)	1599.8	6.9	B3/2500		
BM (30°-60°)	3294.6	14.2	B3/5000		
BH (60°-80°)	1250.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	71.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4424.4	4424.4	4424.4	4424.4	4424.4	4424.4	4424.4	4424.4	4424.4	4424.4	4424.4
2.5°	4874.0	4796.1	4790.1	4769.1	4781.1	4727.1	4670.2	4595.3	4517.3	4565.3	4451.4
5°	5215.7	5110.8	5152.8	5080.9	5089.9	5017.9	4901.0	4814.0	4718.1	4661.2	4580.2
7.5°	5335.7	5344.7	5374.6	5362.6	5302.7	5302.7	5224.7	5071.9	4904.0	4871.0	4736.1
10°	5497.5	5500.5	5467.5	5476.5	5560.5	5521.5	5452.6	5386.6	5170.8	5131.8	4892.0
12.5°	5554.4	5500.5	5554.4	5602.4	5701.3	5755.3	5740.3	5692.3	5461.6	5434.6	5083.9
15°	5563.4	5530.5	5575.4	5683.4	5770.3	5998.1	6112.0	6079.1	5773.3	5776.3	5299.7
17.5°	5521.5	5566.5	5584.4	5677.4	5878.2	6091.0	6420.8	6465.7	6214.0	6175.0	5572.5
20°	5578.5	5545.5	5569.5	5653.4	5920.2	6252.9	6684.5	6981.3	6627.6	6600.6	5854.3
22.5°	5797.3	5752.3	5746.3	5800.3	5992.1	6336.8	6963.3	7496.9	7131.2	7146.2	6205.0
25°	5968.1	5992.1	5971.2	5968.1	6088.1	6462.7	7332.0	8111.4	7814.7	7727.7	6618.6
27.5°	6261.9	6318.9	6276.9	6333.8	6306.8	6651.6	7595.8	8791.8	8552.0	8435.1	6993.3
30°	6669.6	6699.5	6660.6	6660.6	6579.6	6915.4	7835.6	9502.3	9403.4	9244.5	7434.0
32.5°	7206.1	7251.1	7173.1	7128.2	7116.2	7308.1	8267.2	10203.7	10371.5	10236.6	8018.5
35°	7916.5	7889.6	7796.6	7754.7	7592.8	7910.6	8908.7	11010.0	11450.7	11210.8	8725.9
37.5°	8543.1	8501.1	8495.1	8261.3	8300.3	8561.0	9454.3	11621.5	12496.8	12427.9	9472.3
40°	9127.6	9166.5	9229.5	9097.6	9037.6	9325.4	10089.8	12089.1	13309.1	13282.2	10047.8
42.5°	9754.1	9718.0	9829.0	9718.0	9628.2	10035.8	10779.2	12412.9	14022.6	13800.8	10650.3
45°	10662.3	10548.4	10587.4	10596.3	10530.4	10680.3	11064.0	12646.7	14523.2	14499.2	11091.0
47.5°	11420.7	11423.7	11357.7	11306.8	11105.9	11255.9	11381.8	12793.6	15098.7	15059.8	11261.8
50°	11702.5	11663.5	11855.3	11966.3	11978.3	11672.5	11630.5	12874.5	15401.5	15230.6	11432.7
52.5°	10689.3	10725.3	11028.0	11687.4	12068.1	12101.1	11921.3	13042.4	15524.4	15488.4	11570.5
55°	8603.0	8776.9	9274.5	10035.8	10938.1	11930.3	12236.0	13216.3	15590.3	15560.3	12182.1
56°	7562.8	7697.8	8345.2	8941.7	10074.8	11309.8	12038.2	13402.1	15641.3	15782.1	12326.0
57.5°	6088.1	6243.9	6708.5	7386.0	8722.9	10128.7	11492.6	13174.3	15443.4	15497.4	12430.9
60°	3806.9	3821.9	4379.4	4826.1	5767.3	7140.2	8770.9	11462.7	14292.3	14214.4	11165.9
62.5°	2497.0	2500.0	3006.6	3372.2	3800.9	4115.7	5161.8	7601.8	10545.4	10407.6	7949.5
65°	1753.6	1792.5	2185.2	2673.8	2847.7	2682.8	2649.8	4007.7	5890.2	5692.3	4271.5
67.5°	1282.9	1285.9	1633.7	2158.3	2410.1	2041.4	1657.6	1957.4	2332.1	2326.1	1978.4
70°	848.3	884.2	1151.1	1612.7	1900.4	1639.7	1354.9	1399.8	1483.8	1483.8	1471.8
72.5°	494.6	527.6	704.5	1022.1	1067.2	1025.2	1073.1	1199.0	1253.0	1250.0	1235.0
75°	281.8	296.8	335.8	425.6	530.6	626.5	788.3	908.3	962.2	995.2	956.2
77.5°	164.9	173.8	197.9	242.8	275.8	338.7	428.6	512.6	584.5	575.5	581.5
80°	86.9	86.9	110.9	143.9	191.8	239.8	284.8	332.7	371.7	380.7	389.7
82.5°	51.0	53.9	72.0	104.9	137.9	170.9	218.8	251.8	287.8	290.7	296.8
85°	27.0	30.0	44.9	69.0	92.9	104.9	107.9	101.9	110.9	104.9	119.9
87.5°	9.0	9.0	15.0	12.0	12.0	15.0	18.0	18.0	24.0	24.0	24.0
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°	4424.4	4424.4	4424.4	4424.4	4424.4	4424.4	4424.4	4424.4	4424.4	4424.4	4424.4
2.5°	4448.4	4448.4	4397.4	4301.5	4286.5	4247.5	4211.6	4208.5	4181.6	4157.7	4145.6
5°	4532.3	4439.4	4364.4	4277.5	4175.6	4127.7	4073.7	4013.7	3989.8	4013.7	4010.8
7.5°	4628.2	4550.3	4325.4	4163.6	4046.7	3998.8	3938.8	3875.8	3881.8	3881.8	3839.9
10°	4721.2	4616.3	4256.5	4049.7	3878.8	3842.9	3809.9	3833.9	3863.9	3869.8	3842.9
12.5°	4877.0	4640.2	4223.6	3935.8	3827.9	3749.9	3770.9	3836.9	3899.8	3881.8	3902.8
15°	4993.9	4661.2	4073.7	3818.9	3684.0	3720.0	3794.9	3839.9	3944.8	3932.8	3953.8
17.5°	5107.8	4673.2	3926.8	3663.0	3606.0	3705.0	3761.9	3890.8	3923.8	3995.7	4022.7
20°	5341.6	4697.1	3777.0	3567.1	3549.1	3663.0	3761.9	3821.9	3893.9	3956.8	3956.8
22.5°	5461.6	4685.2	3678.0	3441.2	3498.1	3570.1	3660.1	3761.9	3761.9	3821.9	3824.9
25°	5611.4	4637.2	3522.2	3381.2	3423.2	3492.2	3594.0	3558.1	3597.1	3597.1	3645.0
27.5°	5782.3	4535.3	3387.3	3273.3	3357.3	3432.2	3447.2	3423.2	3378.3	3372.2	3354.3
30°	5920.2	4409.4	3288.3	3237.4	3306.3	3348.3	3300.3	3249.4	3171.4	3165.4	3123.5
32.5°	6109.0	4253.6	3165.4	3147.4	3225.3	3228.4	3213.4	3135.4	3021.5	2973.6	2925.6
35°	6426.8	4163.6	3072.5	3099.5	3123.5	3114.5	3087.4	3003.6	2889.7	2868.7	2850.7
37.5°	6660.6	4097.7	2976.6	3009.5	3030.5	3042.5	2961.6	2868.7	2871.7	2829.7	2817.7
40°	6924.4	4055.7	2898.7	2913.6	2916.6	2955.6	2856.7	2811.7	2832.7	2805.7	2823.7
42.5°	7263.1	4067.7	2817.7	2805.7	2862.6	2847.7	2799.7	2739.8	2751.8	2670.8	2682.8
45°	7443.0	4148.6	2769.7	2715.8	2778.7	2775.7	2712.8	2655.9	2583.9	2428.0	2434.0
47.5°	7562.8	4169.6	2655.9	2619.8	2685.8	2724.8	2652.8	2520.9	2419.0	2308.1	2281.1
50°	7685.8	4208.5	2601.9	2527.0	2553.9	2646.9	2556.9	2431.1	2332.1	2233.2	2248.1
52.5°	7793.7	4283.5	2497.0	2386.0	2434.0	2535.9	2488.0	2335.1	2227.2	2146.3	2122.2
55°	8273.3	4451.4	2320.1	2176.2	2290.1	2419.0	2392.1	2206.2	2089.3	2047.3	2041.4
56°	8348.2	4457.4	2227.2	2104.3	2209.2	2380.1	2347.1	2149.3	2044.3	1978.4	1981.4
57.5°	8360.2	4385.4	2095.3	2038.3	2128.3	2323.1	2281.1	2104.3	1960.4	1900.4	1882.5
60°	7356.0	3423.2	1930.4	1894.5	1999.4	2149.3	2134.2	1981.4	1819.5	1750.6	1783.5
62.5°	5014.9	2509.0	1801.5	1795.6	1849.5	1996.3	1957.4	1819.5	1684.6	1639.7	1618.7
65°	2919.7	1903.5	1675.6	1651.7	1696.6	1774.6	1801.5	1657.6	1516.7	1486.8	1477.8
67.5°	1723.6	1573.8	1513.8	1474.8	1459.8	1507.7	1528.7	1444.8	1303.9	1262.0	1298.0
70°	1441.8	1399.8	1402.8	1336.9	1301.0	1268.0	1250.0	1175.0	1058.1	1004.2	989.2
72.5°	1244.0	1226.0	1214.0	1154.1	1121.1	1046.2	968.2	893.2	806.3	761.4	764.4
75°	950.2	944.2	950.2	920.3	863.3	803.4	731.4	635.5	569.6	512.6	524.6
77.5°	566.5	584.5	593.5	581.5	557.6	503.6	458.6	395.6	332.7	287.8	281.8
80°	389.7	404.7	419.7	404.7	380.7	341.7	293.8	245.8	200.8	176.9	170.9
82.5°	296.8	311.7	320.7	305.8	275.8	233.8	200.8	167.9	131.9	107.9	101.9
85°	107.9	122.9	119.9	143.9	155.9	149.9	128.9	98.9	74.9	53.9	51.0
87.5°	30.0	27.0	30.0	30.0	30.0	27.0	24.0	24.0	24.0	15.0	12.0
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)