

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: P646970

Luminaire Tested: **GALN-SA5C-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
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-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24064.7 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

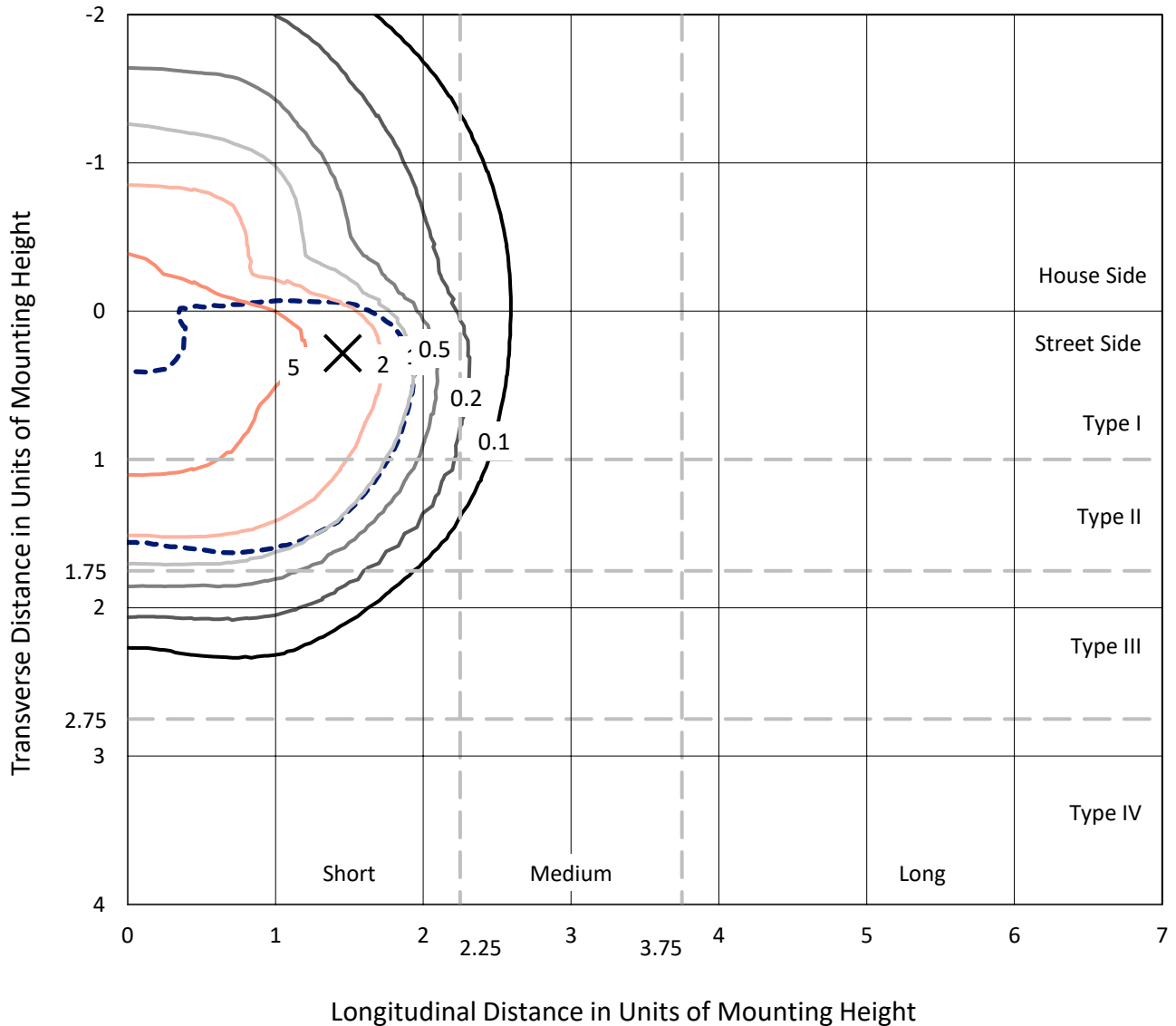
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

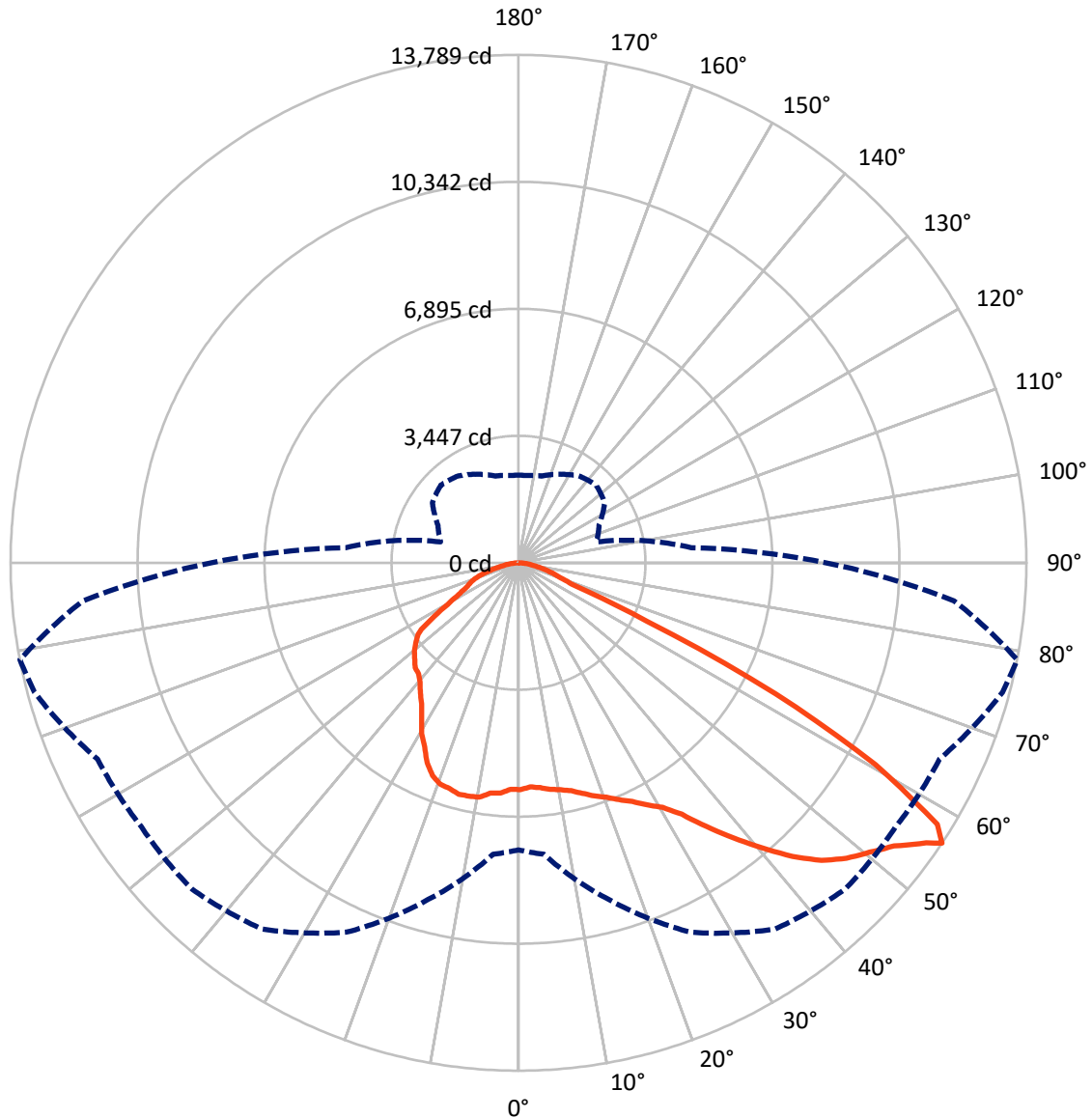
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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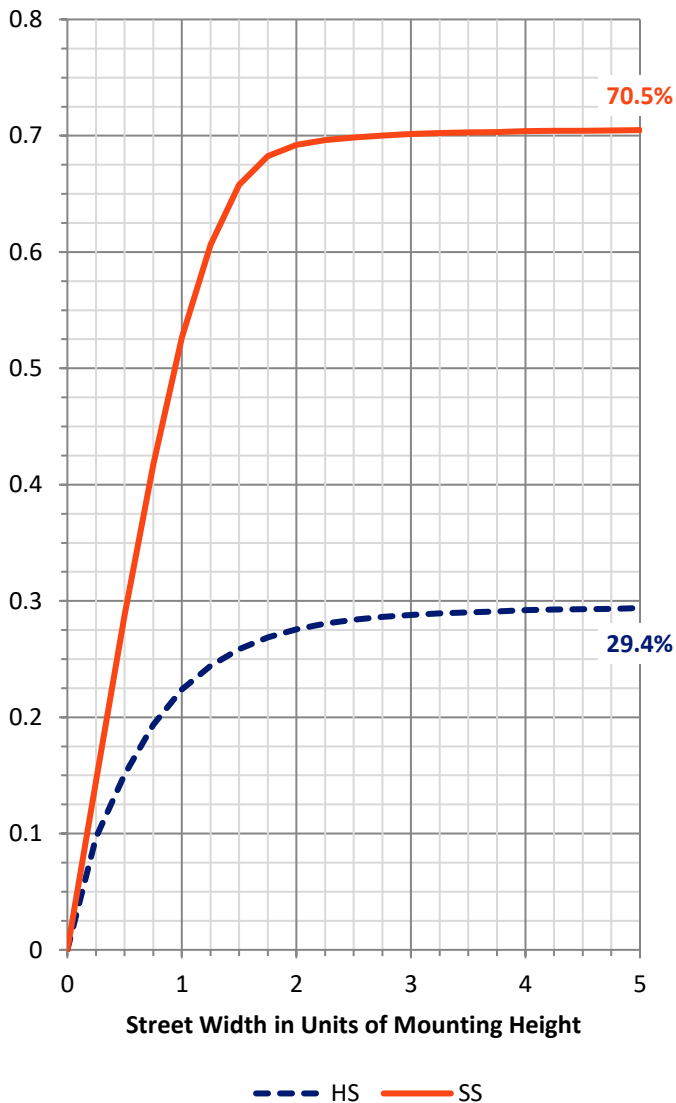
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7106.9	0.0	7106.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	16957.9	0.0	16957.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	24064.7	0.0	24064.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.8	2.3
10°-20°	1532.0	6.4
20°-30°	2621.0	10.9
30°-40°	4017.0	16.7
40°-50°	5429.0	22.6
50°-60°	6235.4	25.9
60°-70°	2842.3	11.8
70°-80°	700.8	2.9
80°-90°	127.4	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°	24064.7	100.0
0°-180°	24064.7	100.0



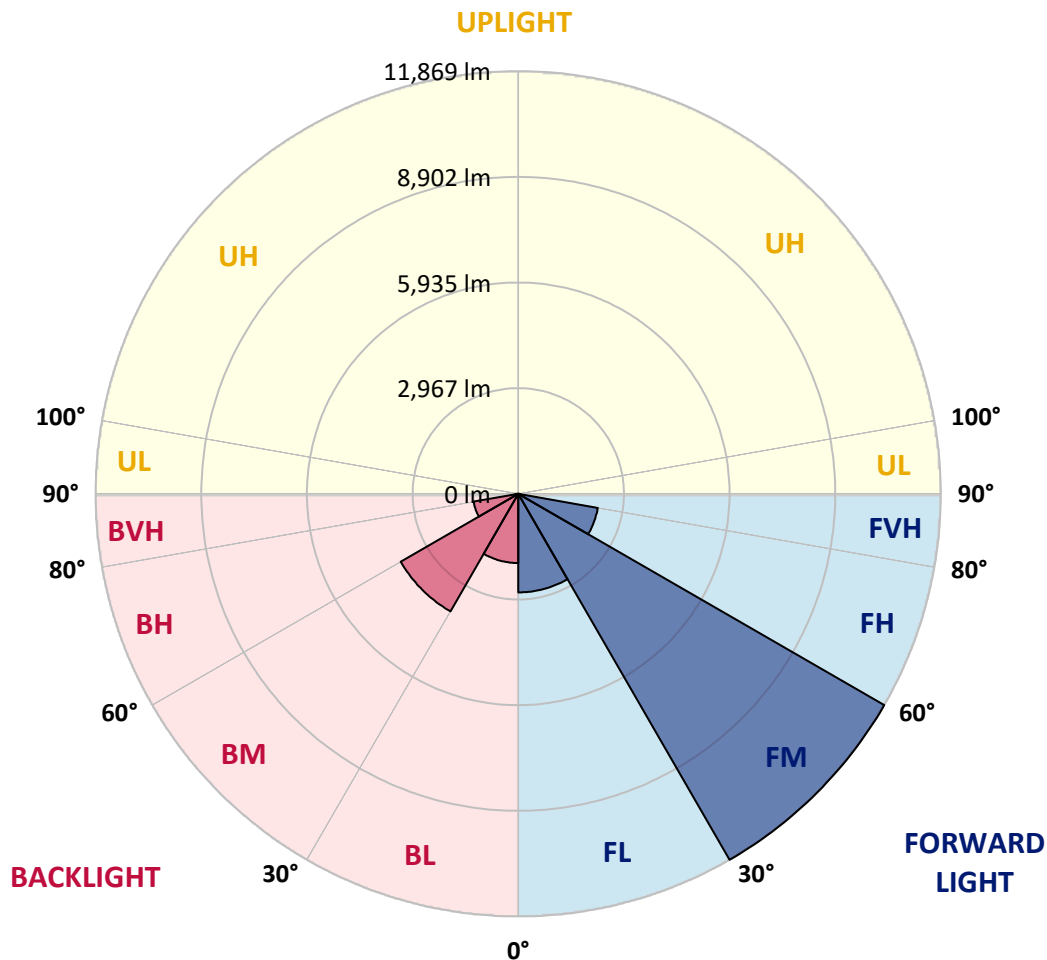
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2768.8	11.5			
FM (30°-60°)	11869.4	49.3			
FH (60°-80°)	2268.8	9.4			G2/5000
FVH (80°-90°)	50.9	0.2			G1/100
BL (0°-30°)	1944.0	8.1	B3/2500		
BM (30°-60°)	3812.0	15.8	B3/5000		
BH (60°-80°)	1274.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	76.5	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°	79°	85°
0°	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2
2.5°	5857.5	5842.4	5878.5	5905.4	5938.4	5980.3	6001.3	6013.3	6118.2	6091.3	6172.2
5°	5731.6	5692.6	5719.6	5740.6	5797.5	5848.5	5905.4	5995.4	6091.3	6133.2	6232.1
7.5°	5620.6	5599.6	5593.7	5608.6	5686.5	5752.5	5851.4	5983.4	6139.2	6208.2	6265.1
10°	5437.8	5407.8	5452.7	5551.7	5572.7	5710.6	5824.5	6013.3	6148.2	6268.1	6436.0
12.5°	5356.8	5326.8	5335.8	5392.8	5539.7	5671.6	5806.5	6019.3	6304.1	6352.1	6576.9
15°	5485.7	5455.8	5464.7	5449.8	5590.6	5659.6	5872.4	6139.2	6412.0	6492.9	6732.8
17.5°	5779.5	5782.5	5743.5	5710.6	5677.6	5824.5	5971.4	6211.1	6454.0	6657.8	6837.7
20°	6340.0	6241.1	6163.2	5977.3	5926.4	5989.3	6175.2	6406.0	6624.9	6792.7	6996.6
22.5°	6771.7	6780.7	6669.8	6364.1	6253.1	6280.1	6439.0	6627.9	6867.7	6987.6	7221.4
25°	7398.3	7335.3	7215.4	6972.5	6723.8	6744.8	6861.7	7032.5	7098.4	7182.4	7437.2
27.5°	7970.8	7988.8	7751.9	7524.2	7215.4	7155.4	7365.3	7395.3	7284.3	7443.2	7530.1
30°	8552.3	8537.4	8381.5	8114.7	7811.9	7823.9	7916.8	7769.9	7617.1	7704.0	7764.0
32.5°	9154.9	8984.0	8978.0	8738.2	8507.4	8396.5	8282.6	8354.5	8117.7	8135.7	8078.7
35°	9637.5	9661.5	9523.6	9352.7	9238.8	9044.0	8732.2	8861.1	8816.1	8795.1	8549.3
37.5°	9988.3	9895.3	9964.2	9907.3	9799.4	9556.6	9232.8	9355.8	9376.7	9478.6	9193.8
40°	10276.0	10237.0	10419.9	10449.8	10374.9	9850.4	9268.8	9634.5	9949.3	10171.1	9832.4
42.5°	10413.9	10497.8	10689.7	10920.5	10752.6	10192.1	9454.6	9847.3	10548.8	10899.5	10437.9
45°	10599.8	10491.8	10776.6	11199.2	11202.3	10479.8	9634.5	10135.2	11016.4	11526.0	10851.5
47.5°	10410.9	10464.9	10758.7	11295.2	11433.1	10782.6	10120.1	10542.8	11532.0	11984.7	11235.3
50°	9988.3	10096.2	10632.7	11190.3	11607.0	11103.3	10677.7	10983.5	12008.6	12353.4	11298.2
52.5°	9547.6	9607.5	10446.9	11271.2	11684.9	11517.1	11424.1	11592.0	12590.2	12770.0	11376.1
55°	8348.5	8633.3	9832.4	11235.3	12065.6	12263.4	12191.5	12437.3	13249.7	13429.5	11801.8
56°	7793.9	7943.8	9463.7	11067.4	12140.6	12536.2	12500.3	12611.2	13600.4	13789.3	11867.8
57.5°	6768.7	6780.7	8069.8	10323.9	11858.8	12617.2	12581.2	12668.2	13531.5	13402.6	11289.2
60°	4235.7	4421.5	5491.7	7940.8	10084.2	11705.9	11909.7	11211.3	11409.1	11136.4	8783.1
62.5°	2194.3	2167.3	2877.8	4643.4	6693.8	8381.5	8570.3	8537.4	8231.6	7832.9	5737.5
65°	1094.2	1100.1	1504.8	2299.2	3429.3	4388.6	4916.1	4973.1	4160.8	3828.0	2721.9
67.5°	794.4	824.3	1082.2	1405.9	1615.7	1807.6	2215.3	2173.3	1645.7	1564.7	1450.9
70°	617.6	644.5	878.3	1073.2	974.2	974.2	1061.2	1097.1	1172.1	1205.0	1244.0
72.5°	449.7	470.7	671.5	740.4	638.5	686.5	794.4	878.3	956.3	968.3	1013.2
75°	308.7	326.7	440.7	407.7	383.7	473.6	581.5	659.5	716.4	746.4	773.4
77.5°	200.8	206.9	251.8	212.8	245.8	305.8	377.7	443.6	500.6	524.6	530.6
80°	90.0	98.9	107.9	134.9	170.9	218.8	269.8	323.8	359.7	368.7	386.7
82.5°	51.0	51.0	65.9	95.9	125.9	158.9	194.8	233.8	275.8	284.8	281.8
85°	27.0	27.0	39.0	56.9	77.9	92.9	90.0	92.9	98.9	113.9	111.0
87.5°	9.0	9.0	12.0	12.0	15.0	18.0	15.0	21.0	27.0	27.0	27.0
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°	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2
2.5°	6148.2	6175.2	6139.2	6217.2	6217.2	6202.1	6127.2	6151.2	6169.2	6169.2	6184.2
5°	6265.1	6256.2	6280.1	6187.2	6130.3	6109.3	5986.3	5926.4	5875.4	5872.4	5827.5
7.5°	6331.1	6307.1	6298.1	6229.2	5977.3	5824.5	5560.7	5407.8	5374.8	5257.9	5302.9
10°	6436.0	6481.0	6436.0	6061.3	5710.6	5359.8	5102.0	4865.2	4772.3	4697.4	4652.4
12.5°	6651.8	6630.8	6370.0	5863.4	5371.8	4955.1	4571.5	4322.6	4229.7	4163.8	4157.7
15°	6834.7	6729.7	6331.1	5551.7	4844.3	4400.5	4085.9	3909.0	3867.0	3873.0	3900.0
17.5°	6897.6	6825.7	6127.2	5227.9	4451.5	3930.0	3783.1	3756.1	3795.0	3840.0	3852.0
20°	6996.6	6882.6	6043.3	4787.3	3965.9	3636.2	3627.2	3723.1	3795.0	3861.0	3870.0
22.5°	7203.4	6915.6	5770.5	4370.6	3633.2	3549.3	3636.2	3717.1	3828.0	3882.0	3834.0
25°	7263.3	6843.7	5386.8	3870.0	3423.4	3495.3	3588.2	3699.1	3777.0	3807.0	3828.0
27.5°	7314.3	6732.8	4868.2	3537.3	3357.4	3492.3	3588.2	3681.1	3723.1	3750.1	3774.1
30°	7458.2	6699.8	4418.5	3315.5	3315.5	3432.4	3555.2	3579.2	3636.2	3669.1	3711.1
32.5°	7530.1	6472.0	3956.9	3174.5	3273.5	3462.3	3471.3	3516.3	3519.3	3546.2	3501.3
35°	7719.0	6310.1	3528.3	3072.6	3291.4	3432.4	3477.3	3450.3	3303.4	3231.5	3246.5
37.5°	7856.9	6229.2	3219.5	3060.6	3294.5	3465.3	3489.3	3285.5	3132.5	3012.7	3042.7
40°	8228.6	6028.3	2985.7	3039.6	3321.4	3501.3	3435.3	3213.5	2937.7	2814.8	2793.8
42.5°	8513.4	5884.4	2838.8	3015.6	3342.4	3552.2	3408.3	3069.6	2787.8	2673.9	2703.9
45°	8843.1	5851.4	2760.9	3021.7	3378.4	3579.2	3375.4	2958.7	2658.9	2614.0	2605.0
47.5°	8960.0	5614.7	2676.9	2970.7	3369.4	3570.2	3264.5	2874.8	2611.0	2616.9	2641.0
50°	8765.2	5371.8	2614.0	2865.8	3309.4	3489.3	3090.6	2763.8	2584.0	2658.9	2700.9
52.5°	8516.4	5123.0	2485.1	2724.9	3186.5	3363.4	3009.7	2757.9	2557.0	2533.0	2542.0
55°	8591.3	4919.2	2305.2	2533.0	2988.7	3129.6	2919.7	2700.9	2491.0	2401.1	2431.1
56°	8348.5	4709.4	2188.3	2413.1	2853.8	2979.7	2874.8	2649.9	2437.1	2377.2	2377.2
57.5°	7662.0	4004.9	2035.4	2221.3	2569.0	2718.9	2787.8	2620.0	2377.2	2272.3	2275.2
60°	5650.6	2847.8	1825.6	1957.5	2128.4	2248.2	2569.0	2536.1	2227.2	2155.3	2128.4
62.5°	3483.3	2080.4	1675.7	1726.7	1813.6	1912.5	2242.3	2296.2	2068.4	1990.5	1972.5
65°	1951.5	1591.8	1561.8	1582.8	1624.7	1675.7	1861.6	1981.5	1825.6	1705.7	1699.7
67.5°	1426.9	1423.9	1447.8	1465.9	1483.9	1483.9	1528.8	1576.8	1555.8	1459.8	1450.9
70°	1268.0	1277.0	1295.0	1298.0	1304.0	1283.0	1247.0	1232.1	1256.0	1196.0	1184.1
72.5°	1046.2	1076.2	1097.1	1100.1	1067.2	1040.2	992.2	941.2	923.3	911.3	908.3
75°	803.4	824.3	833.3	830.4	818.4	779.4	722.5	671.5	638.5	602.5	620.5
77.5°	542.5	572.5	587.6	587.6	569.6	509.6	482.6	443.6	410.7	371.7	377.7
80°	380.7	401.7	425.6	422.7	392.7	362.7	323.8	287.8	260.8	230.8	227.9
82.5°	284.8	296.8	308.7	302.8	281.8	251.8	224.8	191.8	161.8	140.9	140.9
85°	101.9	111.0	134.9	140.9	152.9	152.9	128.9	107.9	86.9	72.0	72.0
87.5°	30.0	30.0	33.0	33.0	30.0	33.0	27.0	30.0	33.0	21.0	21.0
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)