

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: P646944

Luminaire Tested: **GALN-SA5C-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
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-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23322.5 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

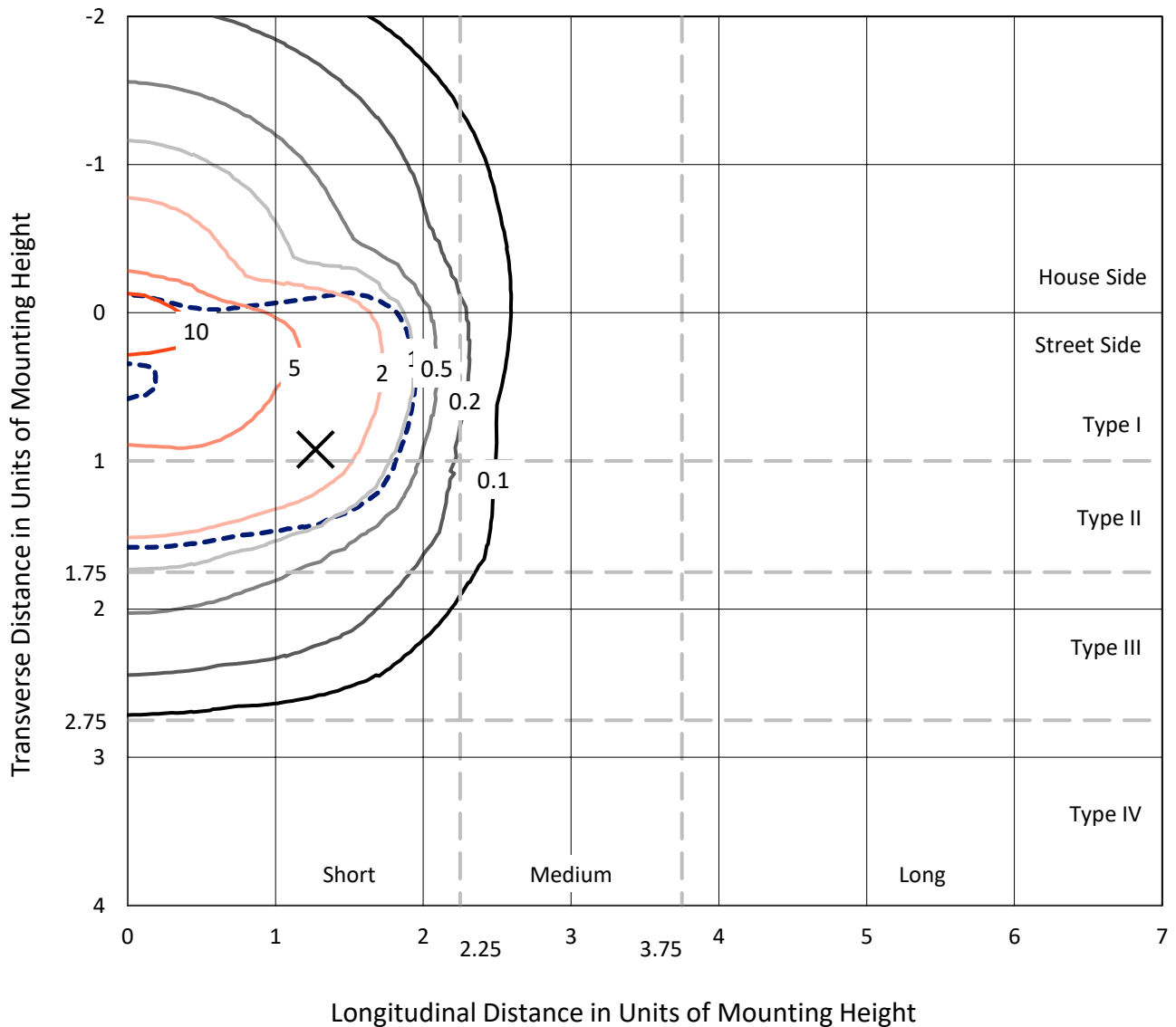
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

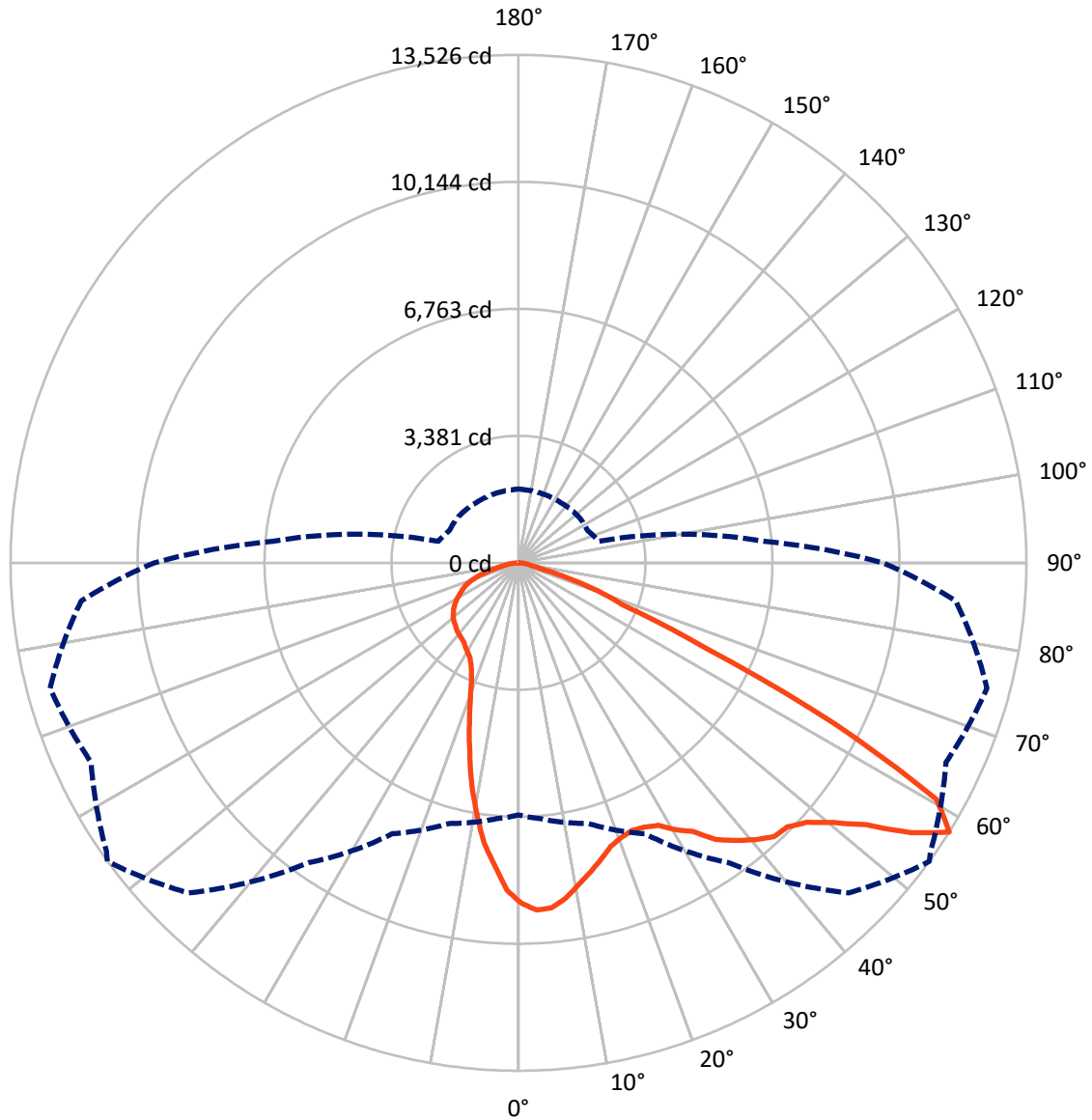
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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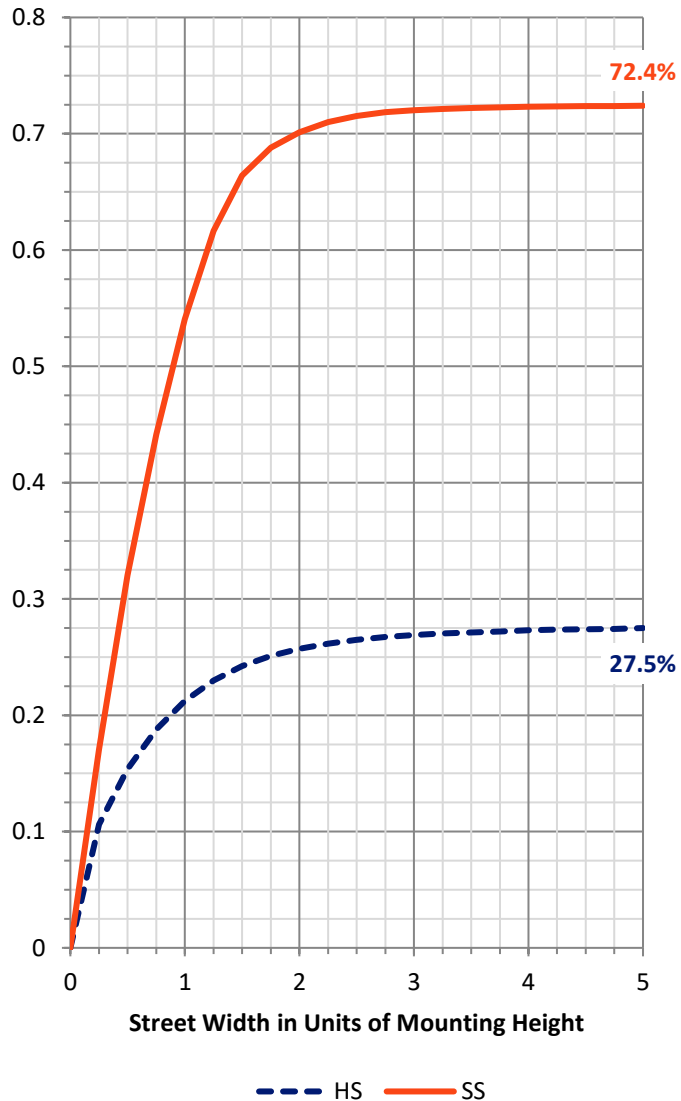
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6452.3	0.0	6452.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	16870.2	0.0	16870.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	23322.5	0.0	23322.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.8	3.4
10°-20°	1810.1	7.8
20°-30°	2543.2	10.9
30°-40°	3555.5	15.2
40°-50°	4813.4	20.6
50°-60°	5862.9	25.1
60°-70°	3053.7	13.1
70°-80°	782.5	3.4
80°-90°	119.4	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°	23322.5	100.0
0°-180°	23322.5	100.0

Coefficient of Utilization



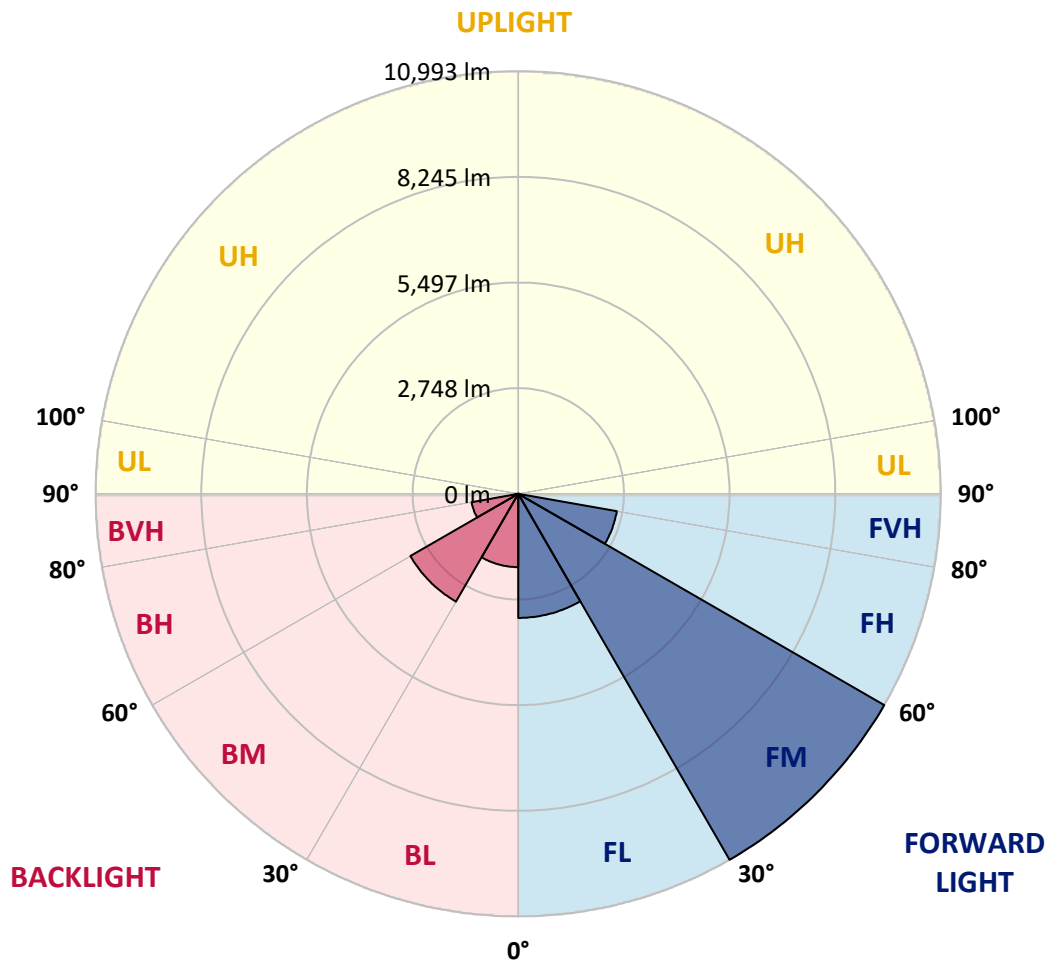
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3228.1	13.8			
FM (30°-60°)	10993.5	47.1			
FH (60°-80°)	2603.4	11.2			G2/5000
FVH (80°-90°)	45.1	0.2			G1/100
BL (0°-30°)	1907.0	8.2	B3/2500		
BM (30°-60°)	3238.3	13.9	B3/5000		
BH (60°-80°)	1232.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	74.3	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°	54°	55°	65°	75°	85°
0°	9065.2	9065.2	9065.2	9065.2	9065.2	9065.2	9065.2	9065.2	9065.2	9065.2	9065.2
2.5°	9322.9	9287.0	9293.0	9341.0	9281.0	9257.0	9257.0	9140.1	9149.1	9068.2	9047.2
5°	9107.2	9023.2	9080.1	9152.1	9164.1	9188.0	9227.0	9197.0	9113.1	9026.2	8885.3
7.5°	8543.5	8618.5	8639.5	8690.4	8798.3	8897.3	9020.2	8936.3	8933.2	8846.3	8762.4
10°	8048.9	8004.0	8117.9	8192.8	8372.7	8537.6	8726.5	8717.5	8762.4	8663.5	8519.6
12.5°	7557.3	7521.3	7575.3	7746.1	7998.0	8237.8	8462.6	8378.6	8618.5	8600.6	8291.7
15°	7035.7	7062.7	7140.6	7299.5	7629.2	7917.0	8201.8	8204.8	8417.6	8489.6	8075.9
17.5°	6670.0	6640.0	6738.9	6975.7	7269.5	7614.3	7938.0	8004.0	8330.7	8372.7	8009.9
20°	6397.2	6439.2	6568.0	6688.0	7026.7	7443.4	7809.1	7833.1	8312.7	8426.6	7905.0
22.5°	6331.3	6307.2	6349.2	6544.1	6822.8	7275.5	7740.2	7830.1	8309.7	8408.6	7707.2
25°	6262.3	6340.2	6337.2	6532.1	6735.9	7140.6	7797.1	7896.1	8468.6	8501.6	7734.2
27.5°	6418.2	6409.2	6493.1	6508.1	6759.9	7176.6	7917.0	7992.0	8732.4	8705.5	7755.1
30°	6574.1	6529.0	6580.0	6756.9	6873.8	7383.5	8246.8	8240.8	9074.2	9056.2	7821.1
32.5°	6765.9	6744.9	6777.9	6933.8	7131.6	7659.2	8525.5	8702.4	9421.9	9535.8	8048.9
35°	6801.8	6888.8	6966.7	7176.6	7458.4	8105.9	9050.1	9197.0	9823.6	10180.3	8483.6
37.5°	7029.7	7062.7	7245.6	7617.3	7875.1	8702.4	9382.9	9475.9	10189.3	10594.0	8942.3
40°	7272.5	7311.5	7587.3	7977.0	8330.7	9092.1	9694.7	9724.7	10306.2	10911.8	9242.1
42.5°	7602.3	7638.2	7911.0	8399.6	8873.3	9424.9	9970.5	10003.5	10297.2	11277.5	9718.7
45°	7944.0	8030.9	8351.7	8906.3	9332.0	9814.6	10033.4	10168.4	10381.2	11604.2	10105.4
47.5°	8423.7	8504.6	8768.4	9311.0	9808.6	10156.4	10324.2	10456.1	10582.0	11889.1	10354.2
50°	8933.2	8948.3	9269.0	9760.6	10126.4	10543.0	10866.8	10911.8	10845.8	12218.8	10776.9
52.5°	9308.0	9355.9	9604.7	10084.4	10630.0	11142.6	11586.3	11634.2	11505.3	12341.7	10920.7
55°	8687.5	8660.4	9065.2	9703.7	10968.7	12036.0	12680.5	12716.4	11985.0	12722.4	11391.4
57.5°	6714.9	6843.8	7188.6	7959.0	9745.7	12431.6	13525.8	13396.9	12560.5	12914.3	11691.2
60°	4880.3	4850.4	5081.2	5596.8	7344.5	10713.9	12788.3	12920.3	12089.9	11640.2	9640.8
62.5°	3975.0	3933.0	3951.0	3969.0	4739.4	7110.7	9466.9	9463.9	9311.0	8366.7	6502.1
65°	3177.6	3276.5	3285.5	3420.5	3519.4	4247.8	5485.9	5779.6	5033.2	4127.9	2994.7
67.5°	2395.2	2359.3	2479.1	2958.8	3144.6	3066.7	2994.7	3027.7	2152.4	1552.8	1462.9
70°	1411.9	1397.0	1540.9	2062.4	2590.1	2437.2	2257.3	2260.3	1477.9	1085.2	1208.1
72.5°	773.4	770.4	800.4	1046.2	1471.9	1528.9	1355.0	1397.0	881.3	878.4	944.3
75°	431.7	422.7	413.7	461.7	530.6	560.5	572.5	578.6	605.6	677.5	704.5
77.5°	158.9	152.9	152.9	176.9	224.8	281.8	356.7	362.8	428.7	491.6	518.6
80°	53.9	60.0	81.0	111.0	149.9	200.8	242.8	248.8	302.8	344.8	353.8
82.5°	33.0	35.9	53.9	77.9	107.9	140.9	179.9	182.8	224.8	251.8	263.8
85°	15.0	18.0	30.0	48.0	69.0	92.9	95.9	95.9	92.9	95.9	90.0
87.5°	0.0	0.0	6.0	6.0	6.0	9.0	12.0	9.0	15.0	18.0	18.0
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°	9065.2	9065.2	9065.2	9065.2	9065.2	9065.2	9065.2	9065.2	9065.2	9065.2	9065.2
2.5°	8984.2	8951.3	8849.3	8759.4	8732.4	8612.5	8435.7	8456.6	8327.8	8387.7	8324.7
5°	8861.3	8750.4	8489.6	8378.6	8087.9	7956.0	7866.1	7641.2	7536.3	7515.3	7425.4
7.5°	8546.5	8477.6	8150.9	7851.1	7542.3	7278.5	6939.7	6709.0	6544.1	6499.1	6367.2
10°	8297.8	8144.8	7692.2	7236.6	6795.9	6337.2	5896.5	5551.8	5383.9	5189.1	5123.2
12.5°	8051.9	7821.1	7209.6	6625.0	6055.4	5476.9	4943.2	4523.6	4157.9	4070.9	4041.0
15°	7899.1	7497.4	6777.9	6073.4	5264.0	4508.6	3975.0	3699.2	3474.4	3381.5	3447.4
17.5°	7698.2	7230.5	6364.2	5425.9	4535.6	3840.1	3393.4	3222.6	3141.6	3150.6	3123.6
20°	7446.4	6978.7	5821.6	4838.3	3885.1	3330.5	3075.7	3012.7	3024.7	3045.7	3036.7
22.5°	7266.6	6673.0	5428.9	4238.8	3357.5	3048.7	2943.8	2898.8	2937.8	2955.7	2940.8
25°	7128.6	6412.1	4952.2	3708.2	3051.7	2889.8	2841.8	2838.8	2898.8	2922.8	2907.8
27.5°	7002.7	6169.3	4478.6	3303.5	2847.8	2766.9	2751.9	2787.9	2826.9	2850.8	2871.8
30°	6927.7	5983.5	4035.0	2964.8	2745.9	2707.0	2680.0	2712.9	2733.9	2757.9	2745.9
32.5°	6999.7	5851.6	3606.3	2772.9	2662.0	2623.0	2659.0	2638.0	2673.9	2694.9	2662.0
35°	7224.6	5734.7	3300.5	2671.0	2566.0	2581.1	2587.0	2578.0	2593.1	2575.1	2614.0
37.5°	7446.4	5692.7	3018.7	2584.1	2521.1	2521.1	2515.1	2497.1	2527.1	2521.1	2539.1
40°	7728.2	5719.7	2778.9	2491.1	2479.1	2473.1	2449.1	2446.2	2434.2	2437.2	2443.2
42.5°	7974.0	5779.6	2641.0	2431.1	2440.1	2452.1	2407.2	2371.2	2386.2	2356.2	2356.2
45°	8234.8	5833.6	2518.1	2389.2	2380.2	2377.2	2341.2	2320.3	2308.3	2311.3	2338.3
47.5°	8645.5	5911.6	2425.2	2332.2	2338.3	2293.3	2284.2	2257.3	2269.3	2287.3	2290.3
50°	8936.3	6076.4	2353.2	2266.3	2287.3	2257.3	2203.4	2191.4	2191.4	2221.3	2215.3
52.5°	9140.1	6307.2	2284.2	2194.4	2203.4	2179.3	2161.4	2134.4	2116.4	2158.3	2179.3
55°	9763.6	6691.0	2266.3	2134.4	2131.4	2107.4	2074.4	2047.5	2038.5	2044.5	2086.5
57.5°	9703.7	6571.0	2209.3	2029.5	2023.5	1990.5	1957.5	1948.5	1945.5	1951.5	1963.5
60°	7878.1	4853.3	1972.5	1909.6	1900.6	1894.5	1861.6	1825.6	1807.6	1825.6	1810.6
62.5°	5213.1	3249.5	1738.7	1765.7	1771.7	1756.7	1702.7	1666.8	1672.7	1693.7	1660.7
65°	2560.1	1909.6	1576.8	1648.8	1654.7	1612.7	1561.9	1519.9	1498.9	1516.8	1501.9
67.5°	1462.9	1459.9	1444.9	1519.9	1516.8	1474.9	1394.0	1358.0	1322.0	1328.0	1319.0
70°	1241.1	1265.0	1295.0	1340.0	1337.0	1289.1	1193.1	1166.1	1115.1	1109.2	1094.2
72.5°	977.3	1019.2	1085.2	1118.1	1091.2	1031.2	968.3	923.3	878.4	851.4	860.4
75°	725.4	785.4	821.4	842.4	800.4	767.4	716.4	662.5	608.5	584.6	575.6
77.5°	527.6	545.6	578.6	593.5	566.6	533.6	503.6	449.7	398.7	365.7	356.7
80°	368.7	380.7	404.7	404.7	404.7	389.7	350.7	296.8	263.8	233.8	227.9
82.5°	257.8	269.8	293.8	281.8	278.8	260.8	236.9	194.9	158.9	137.9	131.9
85°	90.0	98.9	119.9	143.9	152.9	149.9	134.9	107.9	83.9	69.0	63.0
87.5°	21.0	21.0	24.0	21.0	21.0	24.0	21.0	21.0	21.0	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)