

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: P530324

Luminaire Tested: **GALN-SA5C-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27963 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

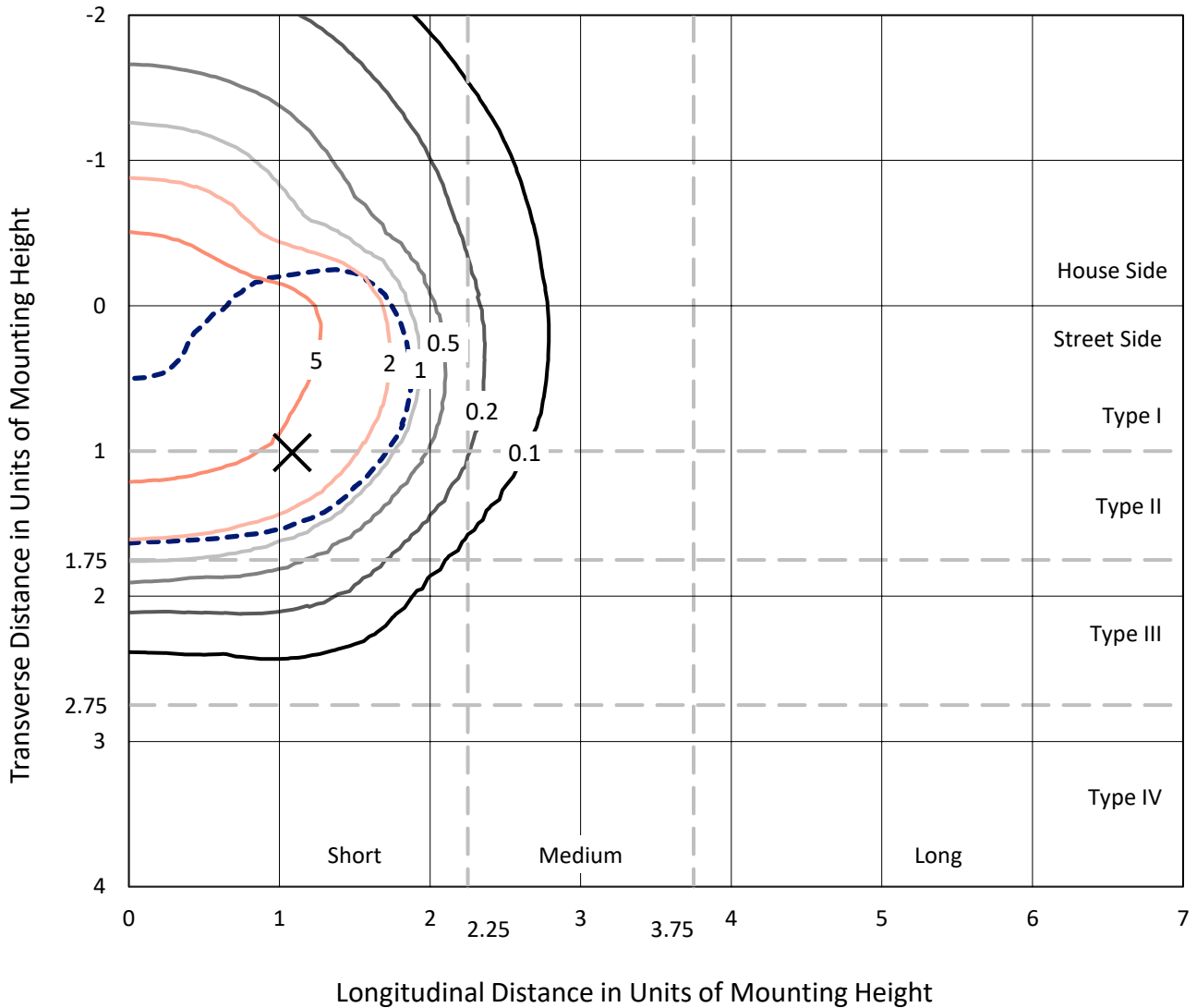
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

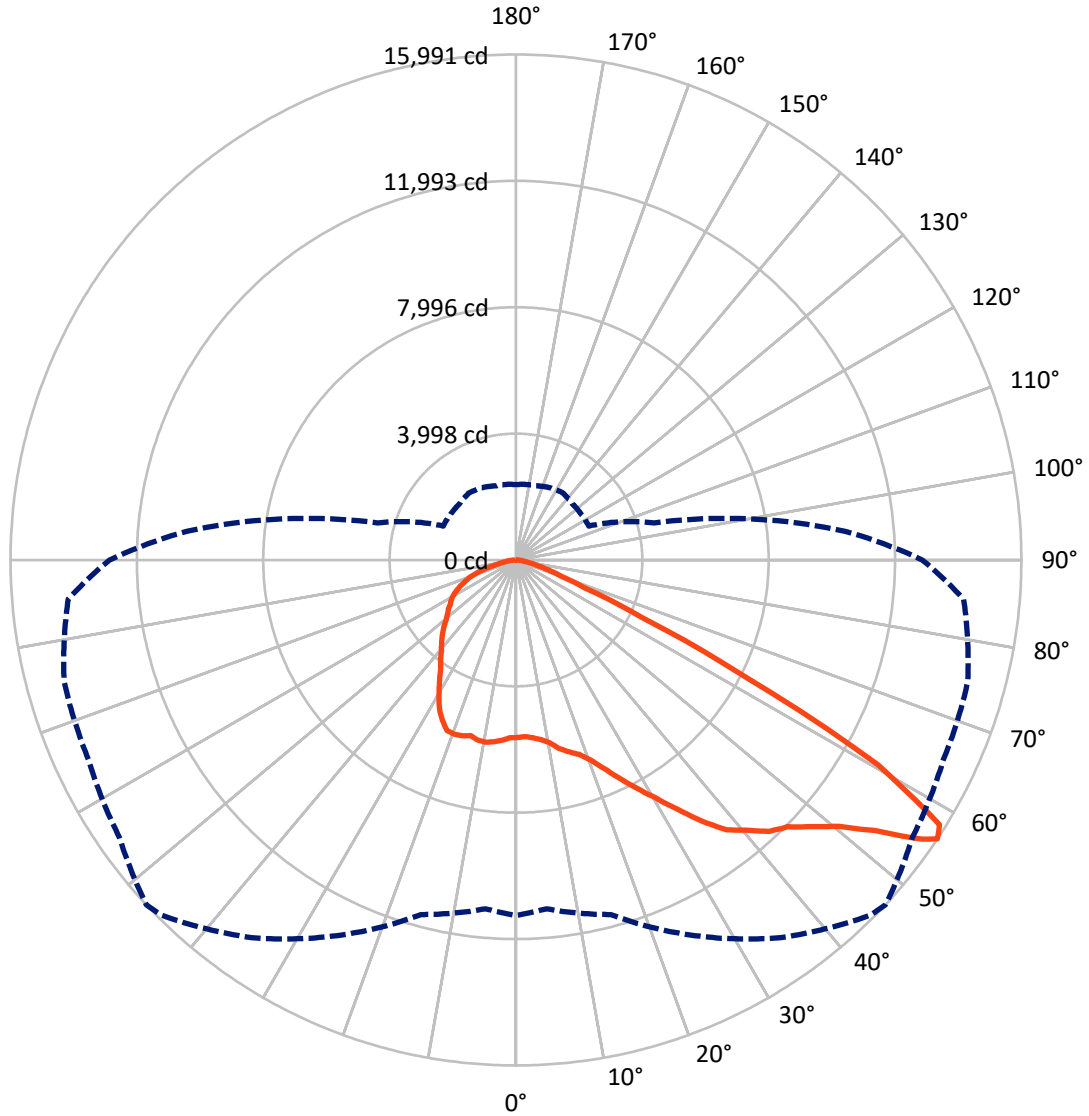
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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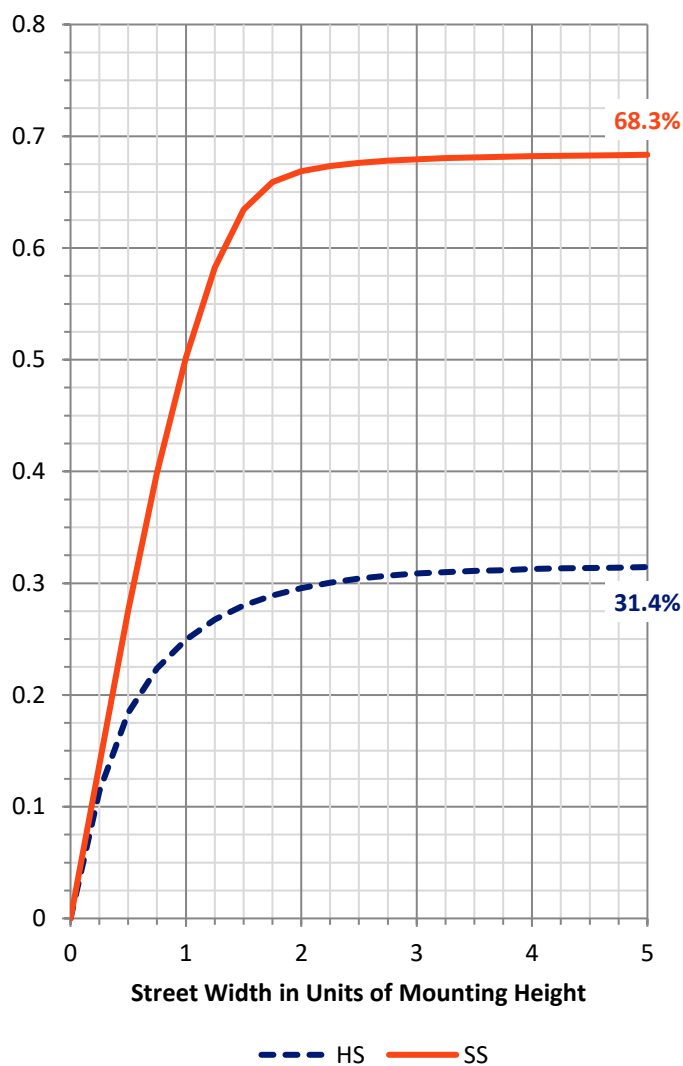
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8861.1	0.0	8861.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	19101.9	0.0	19101.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	27963.0	0.0	27963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.3	2.0
10°-20°	1726.4	6.2
20°-30°	3051.9	10.9
30°-40°	4583.9	16.4
40°-50°	6290.9	22.5
50°-60°	7494.8	26.8
60°-70°	3207.3	11.5
70°-80°	907.7	3.2
80°-90°	152.8	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°	27963.0	100.0
0°-180°	27963.0	100.0

Coefficient of Utilization



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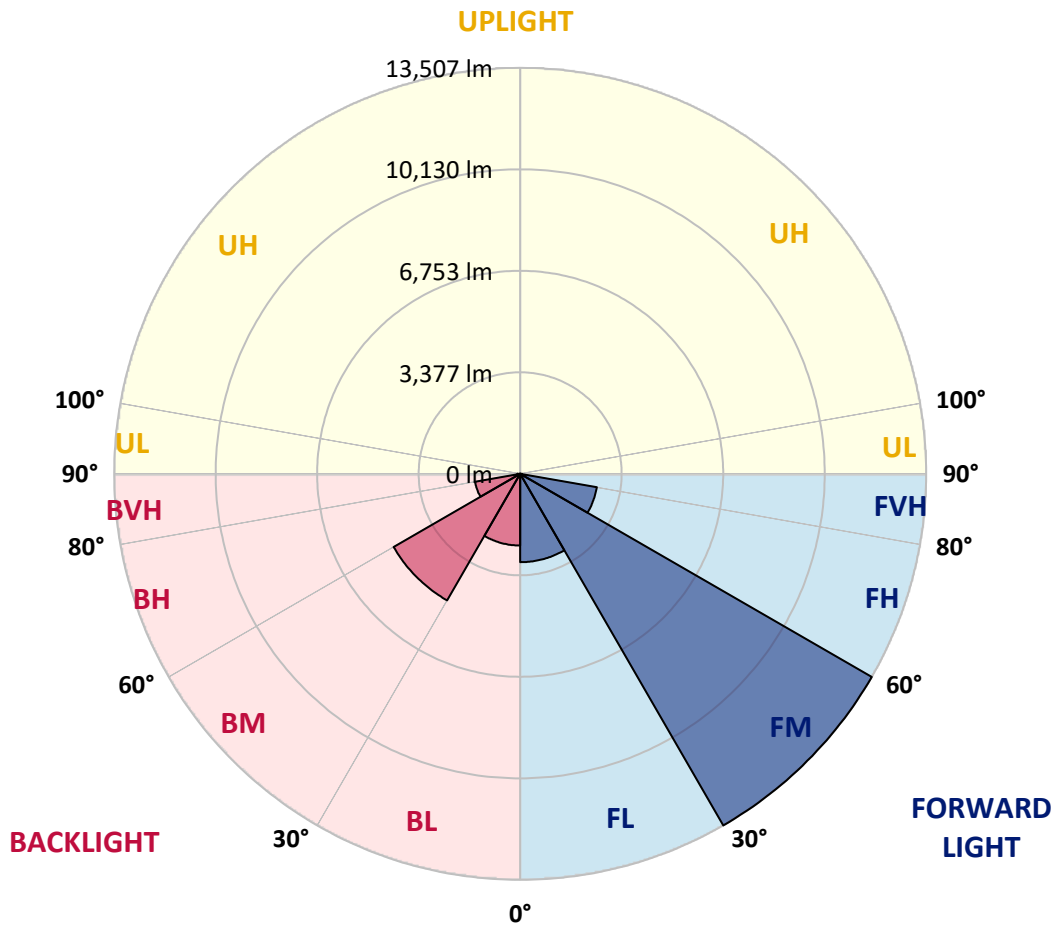
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2939.9	10.5			
FM (30°-60°)	13506.8	48.3			
FH (60°-80°)	2590.4	9.3			G2/5000
FVH (80°-90°)	64.8	0.2			G1/100
BL (0°-30°)	2385.8	8.5	B3/2500		
BM (30°-60°)	4862.8	17.4	B3/5000		
BH (60°-80°)	1524.6	5.5	B3/2500		G3/2500
BVH (80°-90°)	87.9	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°	47°	55°	65°	75°	85°
0°	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9
2.5°	5595.5	5584.8	5577.7	5634.7	5613.4	5616.9	5595.5	5616.9	5631.2	5599.1	5645.4
5°	5584.8	5616.9	5588.4	5606.2	5652.6	5638.3	5652.6	5695.4	5684.7	5674.0	5659.7
7.5°	5684.7	5688.2	5709.6	5716.8	5731.0	5716.8	5738.2	5777.4	5766.7	5706.1	5713.2
10°	5827.3	5834.5	5838.0	5877.3	5902.2	5905.8	5880.8	5845.2	5841.6	5923.6	5866.6
12.5°	5991.4	5973.5	6016.3	6030.6	6059.1	6091.2	6123.3	6048.4	6094.8	6098.4	6030.6
15°	6230.3	6248.2	6198.2	6198.2	6208.9	6212.5	6301.6	6266.0	6258.9	6219.6	6248.2
17.5°	6586.9	6465.7	6462.1	6412.2	6405.1	6433.6	6465.7	6494.2	6590.5	6512.1	6358.7
20°	6847.3	6875.8	6772.4	6711.8	6722.5	6786.7	6754.6	6883.0	6950.7	6822.3	6672.5
22.5°	7307.3	7211.1	7236.0	7100.5	7111.2	7179.0	7175.4	7307.3	7346.6	7143.3	6925.7
25°	7617.6	7592.6	7614.0	7507.1	7521.3	7574.8	7660.4	7877.9	7813.8	7589.1	7086.2
27.5°	8070.5	8020.6	8002.8	7963.5	7949.3	8091.9	8191.8	8423.6	8377.2	8049.1	7371.5
30°	8534.1	8502.1	8519.9	8359.4	8416.5	8719.6	8748.1	9065.5	9044.1	8466.4	7688.9
32.5°	8855.1	8872.9	8905.0	8815.9	9069.1	9311.6	9407.9	9768.1	9785.9	9183.2	8302.3
35°	9372.2	9311.6	9329.4	9432.9	9550.5	9992.8	10149.7	10388.6	10538.4	9935.7	8890.8
37.5°	9696.8	9761.0	9686.1	9850.1	10156.8	10688.2	10830.8	11076.9	11233.8	10677.5	9693.2
40°	10203.2	10099.8	10153.2	10270.9	10584.8	11276.6	11237.4	11490.6	11540.5	11308.7	10442.1
42.5°	10748.8	10698.9	10624.0	10891.5	11155.4	11658.2	11736.7	11619.0	11872.2	11925.7	11512.0
45°	11401.5	11462.1	11472.8	11479.9	11711.7	12150.4	12043.4	11940.0	12232.4	12621.1	12175.3
47.5°	12007.7	11815.1	11954.2	12146.8	12474.9	12478.5	12603.3	12357.2	12667.5	13013.4	12774.5
50°	12211.0	12118.3	12303.7	12667.5	13173.9	13227.4	13241.7	12892.2	13052.6	13327.3	12981.3
52.5°	12132.5	12100.4	12574.8	13138.2	13880.0	14151.1	14222.4	13790.9	13880.0	13755.2	13437.8
55°	11758.1	11854.4	12332.3	13480.6	14618.2	15456.3	15591.8	15046.2	14479.2	14575.5	14226.0
56°	11244.5	11076.9	11611.9	13091.9	14586.2	15880.7	15991.3	15310.1	14925.0	14800.1	14218.8
57.5°	9539.8	9322.3	10024.9	11779.5	13776.6	15720.2	15802.3	15420.7	14850.1	14596.9	13181.0
60°	5584.8	5691.8	6583.4	8124.0	10627.6	12888.6	13163.2	13441.4	13059.8	11925.7	9810.9
62.5°	2696.1	2628.4	3266.7	4657.6	6476.4	8227.4	8145.4	8926.4	9354.4	8473.5	6194.7
65°	1412.3	1405.1	1783.1	2542.8	3559.2	4322.4	4397.2	4818.1	5406.5	4365.1	3145.5
67.5°	1037.8	1066.3	1255.3	1786.7	2289.6	2335.9	2325.2	2535.6	2592.7	2193.3	1932.9
70°	813.1	827.4	966.5	1358.8	1704.7	1526.4	1494.3	1519.2	1686.9	1758.2	1672.6
72.5°	588.4	602.7	720.4	916.5	1066.3	1041.4	1062.8	1201.8	1408.7	1483.6	1394.4
75°	392.3	403.0	467.2	559.9	631.2	681.2	720.4	880.9	1073.5	1116.3	1073.5
77.5°	271.0	281.7	324.5	395.9	403.0	435.1	449.4	524.2	641.9	695.4	666.9
80°	153.4	153.4	174.7	203.3	249.6	292.4	299.6	360.2	413.7	449.4	456.5
82.5°	71.3	74.9	92.7	124.8	164.0	203.3	210.4	249.6	288.9	324.5	335.2
85°	35.7	39.2	53.5	74.9	99.9	121.3	117.7	121.3	128.4	121.3	124.8
87.5°	10.7	10.7	14.3	17.8	14.3	17.8	17.8	21.4	25.0	28.5	32.1
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°	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9
2.5°	5649.0	5659.7	5588.4	5656.1	5631.2	5627.6	5677.5	5670.4	5688.2	5681.1	5638.3
5°	5652.6	5627.6	5702.5	5634.7	5666.8	5734.6	5688.2	5795.2	5741.7	5777.4	5698.9
7.5°	5763.1	5770.3	5756.0	5784.5	5770.3	5802.4	5777.4	5802.4	5759.6	5763.1	5834.5
10°	5859.4	5838.0	5863.0	5827.3	5852.3	5841.6	5784.5	5766.7	5781.0	5763.1	5809.5
12.5°	6037.7	5998.5	5980.7	5937.9	5909.4	5802.4	5713.2	5663.3	5731.0	5741.7	5720.3
15°	6219.6	6223.2	6141.2	6044.9	5866.6	5706.1	5727.5	5745.3	5745.3	5773.8	5720.3
17.5°	6333.7	6333.7	6258.9	6066.3	5884.4	5791.7	5770.3	5713.2	5663.3	5656.1	5652.6
20°	6533.5	6472.8	6301.6	6062.7	5877.3	5834.5	5674.0	5538.5	5435.0	5399.4	5395.8
22.5°	6761.7	6608.3	6369.4	6069.8	5866.6	5805.9	5506.4	5303.1	5117.6	5039.2	5049.9
25°	6972.1	6726.0	6408.6	6037.7	5827.3	5534.9	5199.7	4917.9	4725.3	4661.1	4629.1
27.5°	7118.3	6850.9	6408.6	6066.3	5681.1	5231.8	4889.4	4529.2	4361.6	4318.8	4325.9
30°	7314.5	7007.8	6519.2	6005.6	5388.7	4839.5	4429.3	4194.0	4094.1	4058.4	4083.4
32.5°	7774.5	7417.9	6672.5	5859.4	5042.7	4447.2	4115.5	3983.6	3837.3	3766.0	3741.0
35°	8273.8	7806.6	6822.3	5613.4	4654.0	4090.5	3883.7	3762.4	3587.7	3509.2	3523.5
37.5°	8979.9	8305.9	6833.0	5206.8	4233.2	3890.8	3701.8	3512.8	3370.2	3248.9	3213.2
40°	9932.1	8987.1	6808.1	4778.8	3894.4	3655.5	3516.4	3281.0	3120.5	3034.9	3052.7
42.5°	10770.2	9785.9	6704.6	4293.8	3587.7	3495.0	3338.1	3106.2	2949.3	2860.2	2853.0
45°	11476.3	10374.4	6508.5	3880.1	3330.9	3316.7	3134.8	2956.5	2831.6	2749.6	2785.3
47.5°	12129.0	10848.7	6212.5	3466.4	3095.5	3124.1	2949.3	2838.8	2760.3	2685.4	2681.9
50°	12364.4	10841.5	5952.1	3124.1	2906.5	2892.3	2885.1	2767.4	2685.4	2621.2	2649.8
52.5°	12756.6	10962.8	5670.4	2888.7	2735.3	2738.9	2763.9	2678.3	2585.6	2546.3	2582.0
55°	13320.1	10980.6	5049.9	2614.1	2592.7	2617.7	2617.7	2560.6	2482.1	2450.0	2432.2
56°	12860.1	10449.2	4529.2	2542.8	2521.4	2521.4	2589.1	2524.9	2428.6	2403.7	2382.3
57.5°	11861.5	9154.7	3791.0	2457.2	2425.1	2475.0	2510.7	2442.9	2353.8	2318.1	2339.5
60°	8181.1	6194.7	2849.5	2271.7	2271.7	2353.8	2382.3	2282.4	2243.2	2239.6	2211.1
62.5°	4775.3	3609.1	2228.9	2104.1	2111.2	2179.0	2200.4	2143.3	2093.4	2154.0	2182.6
65°	2532.1	2154.0	1911.5	1925.8	1929.4	1982.9	2075.6	2072.0	2068.5	2086.3	2089.8
67.5°	1833.1	1790.3	1736.8	1722.5	1729.7	1768.9	1861.6	1932.9	1929.4	1886.6	1854.5
70°	1633.4	1572.7	1540.6	1544.2	1515.7	1562.0	1636.9	1683.3	1601.3	1551.3	1529.9
72.5°	1358.8	1340.9	1319.5	1323.1	1266.0	1255.3	1169.7	1169.7	1148.3	1134.1	1159.0
75°	1037.8	1030.7	1041.4	1023.5	962.9	898.7	848.8	802.4	731.1	702.6	688.3
77.5°	656.2	677.6	702.6	663.3	638.4	592.0	542.1	495.7	438.7	406.6	406.6
80°	445.8	463.6	481.5	474.3	445.8	403.0	363.8	313.8	274.6	249.6	246.1
82.5°	338.8	353.1	378.0	349.5	321.0	285.3	253.2	217.5	181.9	153.4	153.4
85°	121.3	139.1	153.4	167.6	178.3	181.9	156.9	128.4	103.4	82.0	78.5
87.5°	32.1	35.7	39.2	35.7	35.7	35.7	39.2	35.7	32.1	25.0	25.0
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)