

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: P530312

Luminaire Tested: **GALN-SA5C-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
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-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27799 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

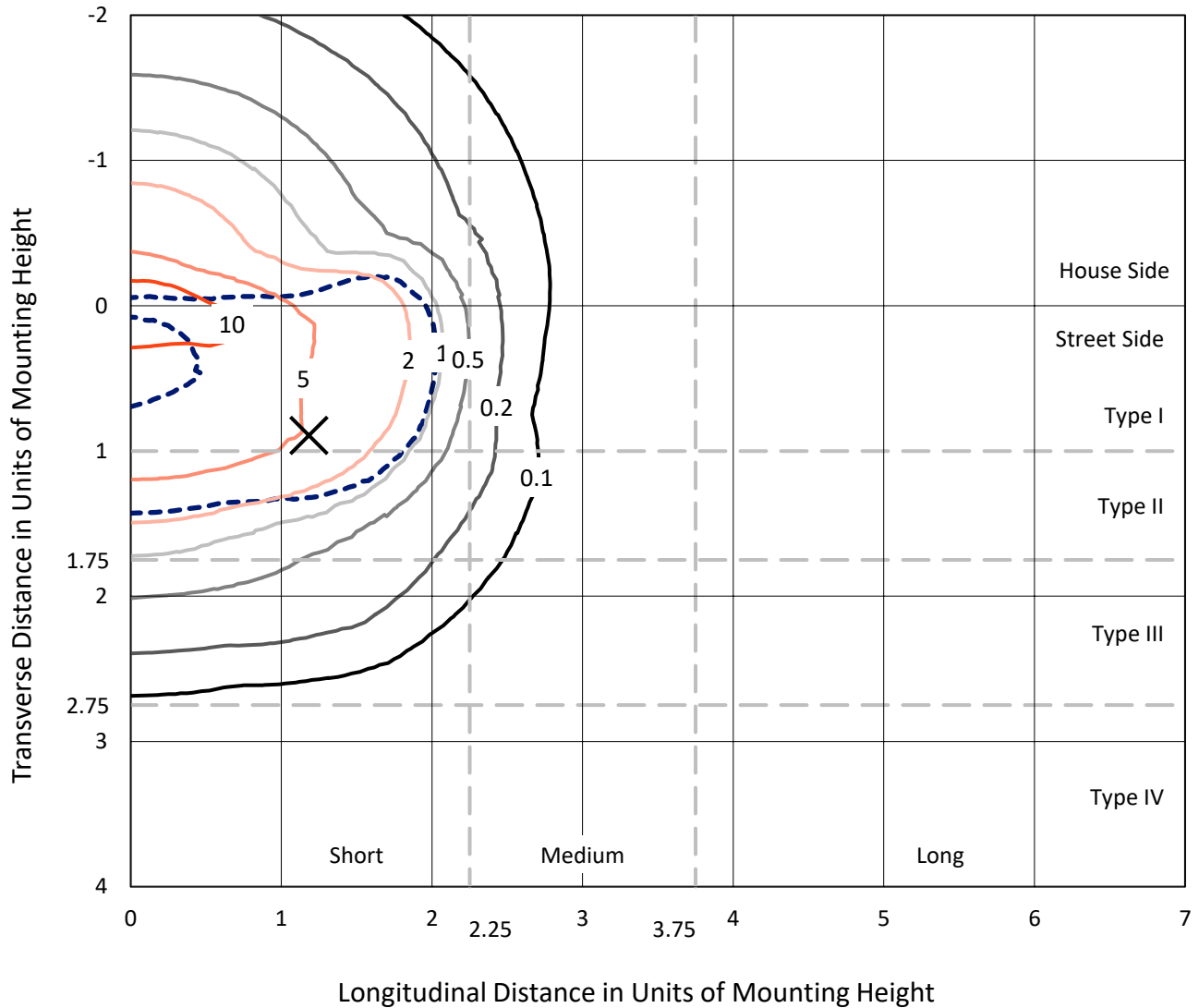
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P530312  
 CATALOG NUMBER: GALN-SA5C-735-U-SL2-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

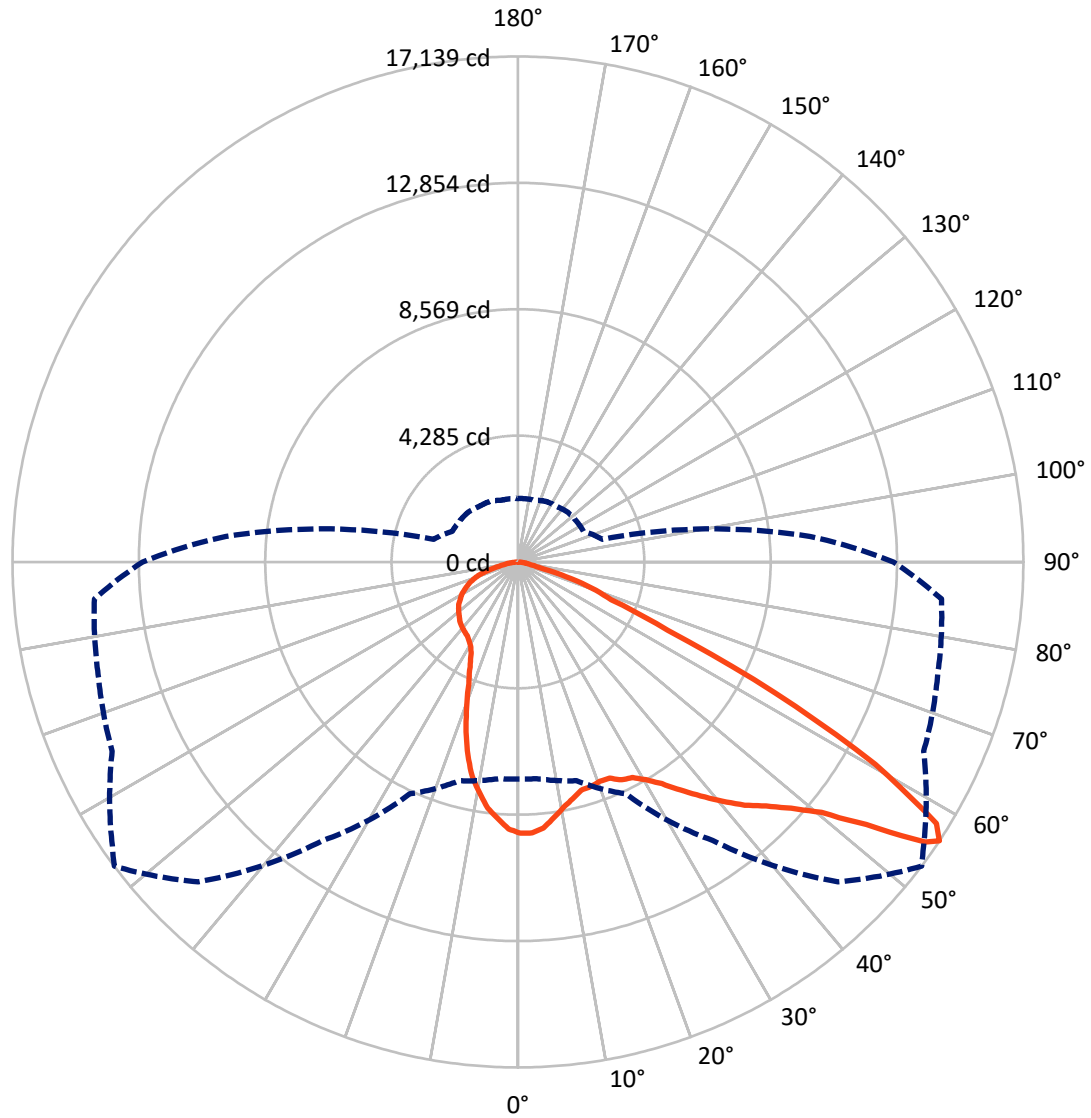
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P530312  
CATALOG NUMBER: GALN-SA5C-735-U-SL2-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P530312  
 CATALOG NUMBER: GALN-SA5C-735-U-SL2-GRSWH

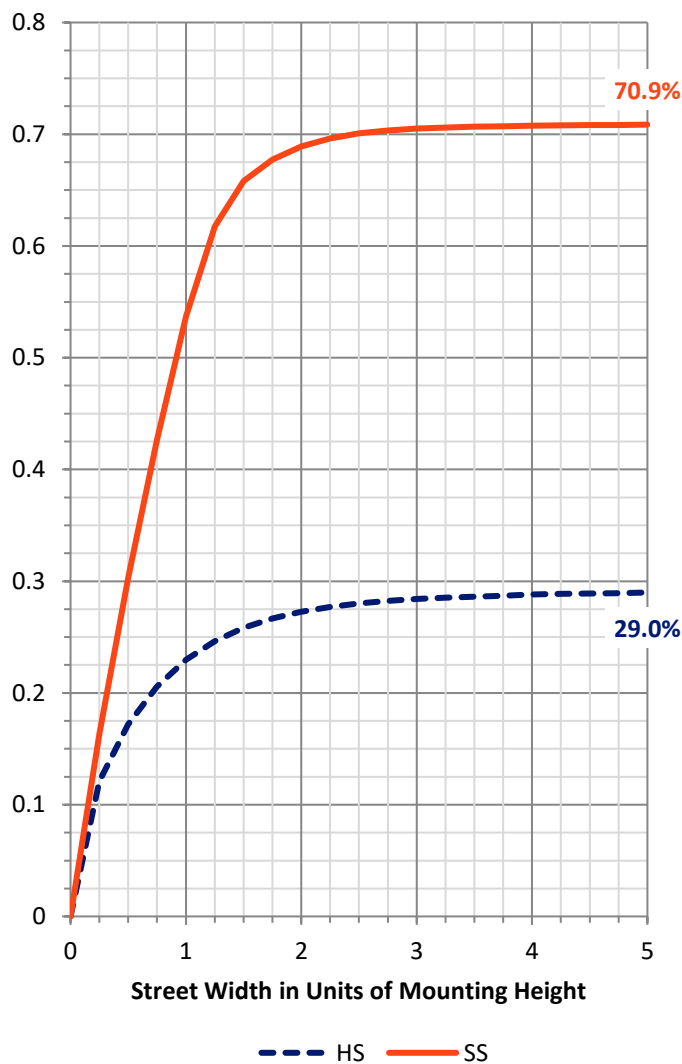
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8112.4	0.0	8112.4
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	19686.6	0.0	19686.6
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	27799.0	0.0	27799.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	814.2	2.9
10°-20°	2033.5	7.3
20°-30°	2998.6	10.8
30°-40°	4284.4	15.4
40°-50°	5896.9	21.2
50°-60°	6968.6	25.1
60°-70°	3713.8	13.4
70°-80°	942.2	3.4
80°-90°	146.9	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°	27799.0	100.0
0°-180°	27799.0	100.0

**Coefficient of Utilization**



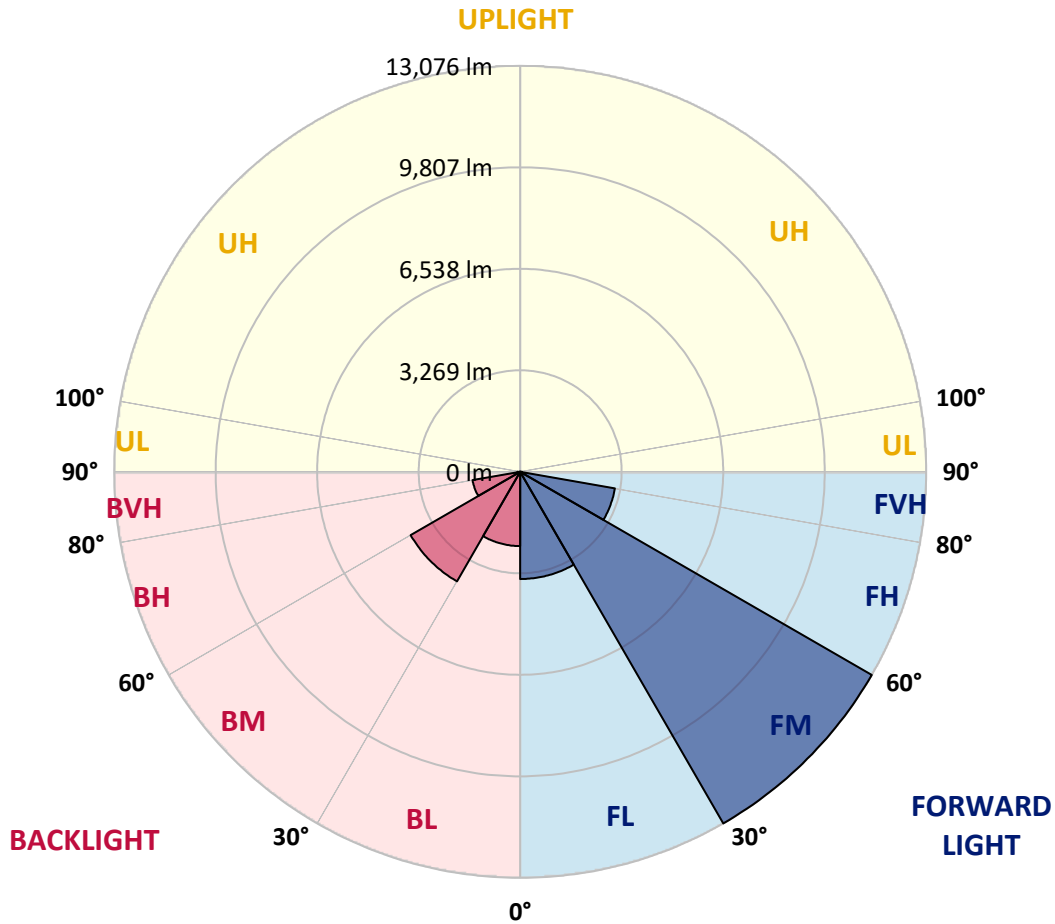
REPORT NUMBER: P530312  
 CATALOG NUMBER: GALN-SA5C-735-U-SL2-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3453.6	12.4			
FM (30°-60°)	13076.1	47.0			
FH (60°-80°)	3097.9	11.1			G2/5000
FVH (80°-90°)	59.1	0.2			G1/100
BL (0°-30°)	2392.7	8.6	B3/2500		
BM (30°-60°)	4073.7	14.7	B3/5000		
BH (60°-80°)	1558.1	5.6	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





REPORT NUMBER: P530312

CATALOG NUMBER: GALN-SA5C-735-U-SL2-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9197.0	9197.0	9197.0	9197.0	9197.0	9197.0	9197.0	9197.0	9197.0	9197.0	9197.0
2.5°	9082.9	9004.4	9050.8	9033.0	9179.2	9222.0	9200.6	9218.4	9300.4	9261.2	9179.2
5°	8487.3	8597.9	8619.3	8672.8	8758.4	8926.0	9057.9	9093.6	9132.8	9314.7	9296.9
7.5°	7945.3	8020.2	7981.0	8137.9	8323.3	8594.3	8754.8	8783.3	9143.5	9243.4	9318.3
10°	7603.0	7528.1	7706.4	7749.2	7959.6	8269.8	8462.4	8580.1	8908.1	9304.0	9350.3
12.5°	7285.6	7260.6	7367.6	7488.8	7724.2	8045.2	8241.3	8287.6	8794.0	9211.3	9428.8
15°	7050.2	7021.7	7128.7	7217.8	7492.4	7777.7	8027.3	8159.3	8669.2	9157.8	9361.0
17.5°	6864.8	6861.2	6921.8	7082.3	7364.0	7603.0	8005.9	8013.1	8605.0	9239.8	9418.1
20°	6854.1	6850.5	6861.2	7039.5	7296.3	7588.7	7938.2	8002.4	8605.0	9182.7	9421.7
22.5°	6943.2	6886.2	6950.4	7064.5	7249.9	7613.7	7963.1	8105.8	8811.9	9464.5	9582.1
25°	7085.9	7100.1	7135.8	7175.0	7282.0	7670.7	8184.2	8301.9	9054.4	9707.0	9803.2
27.5°	7346.2	7339.1	7353.3	7374.7	7467.4	7724.2	8273.4	8576.5	9560.7	10138.5	10042.2
30°	7727.8	7702.8	7759.9	7834.7	7749.2	7895.4	8569.4	8797.6	10031.5	10573.5	10309.6
32.5°	8073.7	8166.4	8273.4	8305.5	8202.1	8230.6	8961.6	9193.4	10423.7	11108.4	10637.7
35°	8505.2	8580.1	8722.7	8822.6	8804.7	8719.1	9496.6	9803.2	10990.8	11500.7	10983.6
37.5°	8926.0	9015.1	9250.5	9546.5	9382.4	9343.2	10067.1	10320.3	11165.5	11711.1	11236.8
40°	9603.5	9600.0	10006.5	10159.9	10306.1	10238.3	10659.1	10744.7	11258.2	11664.8	11244.0
42.5°	10398.8	10348.9	10762.5	11001.5	11190.5	11197.6	11276.0	11247.5	11301.0	11429.4	11169.1
45°	11154.8	11261.8	11679.0	12107.0	12296.0	12317.4	11796.7	11743.2	11375.9	11361.6	11026.4
47.5°	12078.4	12103.4	12445.7	13009.2	13447.8	13298.0	12470.7	12353.0	11704.0	11814.5	11265.4
50°	12131.9	12317.4	12624.0	13287.3	14635.3	14596.1	13344.4	13123.3	12231.8	12456.4	11932.2
52.5°	11012.2	10969.4	11333.1	12417.2	14546.2	15887.0	14792.2	14264.5	13365.8	13194.6	13012.7
55°	8391.1	8490.9	8811.9	9906.7	12631.2	15904.9	16764.3	16332.8	14578.3	14285.8	14075.4
56°	7360.5	7374.7	7677.8	8676.4	11525.7	15337.9	17138.7	16789.3	15180.9	14735.2	14414.2
57.5°	6101.6	6019.6	6176.5	6722.1	9728.4	14139.6	16728.6	17071.0	15887.0	15220.2	14774.4
60°	4803.6	4785.7	4721.5	4821.4	6148.0	10652.0	13925.7	14696.0	15815.7	14763.7	14150.3
62.5°	3922.7	3833.6	3962.0	4104.6	4272.2	6608.0	9785.4	10238.3	12556.3	11786.0	10630.6
65°	3041.9	2999.1	3159.6	3623.2	3723.0	4197.3	5573.8	5923.3	7413.9	7282.0	6411.9
67.5°	2093.3	2100.4	2239.5	2945.6	3452.0	3409.2	3412.8	3594.6	3869.2	2874.3	2503.4
70°	1326.6	1323.0	1397.9	1897.2	2778.0	2806.5	2663.9	2610.4	2474.9	1497.8	1586.9
72.5°	852.3	827.3	866.6	1048.4	1437.1	1661.8	1711.7	1743.8	1433.6	1176.8	1276.7
75°	481.4	456.5	442.2	488.6	567.0	656.2	720.4	741.8	830.9	891.5	945.0
77.5°	146.2	131.9	160.5	214.0	281.7	378.0	460.0	474.3	559.9	631.2	684.7
80°	64.2	71.3	99.9	142.6	199.7	267.5	324.5	345.9	403.0	456.5	470.7
82.5°	39.2	42.8	67.8	96.3	139.1	189.0	231.8	238.9	296.0	338.8	349.5
85°	14.3	17.8	35.7	57.1	89.2	121.2	121.2	131.9	121.2	121.2	131.9
87.5°	0.0	0.0	3.6	7.1	7.1	10.7	14.3	14.3	17.8	21.4	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



REPORT NUMBER: P530312

CATALOG NUMBER: GALN-SA5C-735-U-SL2-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9197.0	9197.0	9197.0	9197.0	9197.0	9197.0	9197.0	9197.0	9197.0	9197.0	9197.0
2.5°	9222.0	9204.1	9175.6	9072.2	9061.5	9029.4	8851.1	8822.6	8851.1	8765.5	8772.6
5°	9204.1	9257.6	9043.7	8940.2	8747.7	8608.6	8448.1	8366.1	8219.9	8127.2	8230.6
7.5°	9282.6	9261.2	8993.7	8769.1	8480.2	8127.2	7845.4	7685.0	7428.2	7356.9	7410.4
10°	9254.1	9139.9	8826.1	8530.1	7984.5	7674.3	7217.8	6775.6	6533.1	6408.3	6390.5
12.5°	9214.8	9182.7	8658.5	8148.6	7574.4	6921.8	6279.9	5862.7	5466.9	5295.7	5320.6
15°	9261.2	8990.2	8344.7	7699.2	6936.1	6080.2	5388.4	4849.9	4575.3	4464.8	4464.8
17.5°	9239.8	8897.5	8194.9	7196.4	6230.0	5217.2	4457.6	4133.1	4019.0	4019.0	4051.1
20°	9250.5	8958.1	7891.8	6693.6	5395.5	4393.5	3840.7	3723.0	3772.9	3790.8	3808.6
22.5°	9311.1	8758.4	7595.8	6140.8	4621.7	3758.7	3487.7	3491.2	3580.4	3676.7	3658.8
25°	9386.0	8679.9	7235.6	5591.7	4029.7	3448.4	3362.8	3352.1	3419.9	3469.8	3477.0
27.5°	9321.8	8544.4	6868.3	4907.0	3544.7	3241.6	3223.8	3230.9	3252.3	3352.1	3320.1
30°	9532.2	8583.6	6408.3	4332.8	3277.3	3173.8	3152.4	3141.7	3173.8	3202.4	3177.4
32.5°	9792.5	8444.6	6066.0	3780.1	3145.3	3123.9	3081.1	3066.9	3084.7	3056.2	3070.4
35°	9906.7	8419.6	5620.2	3384.2	3041.9	3024.1	2999.1	2995.5	2999.1	2974.1	2952.7
37.5°	9970.9	8537.3	5110.2	3202.4	2977.7	2995.5	2938.5	2931.3	2867.2	2881.4	2892.1
40°	10081.4	8355.4	4696.6	3027.6	2938.5	2902.8	2852.9	2842.2	2799.4	2774.4	2799.4
42.5°	9920.9	8301.9	4290.0	2952.7	2881.4	2842.2	2806.5	2745.9	2731.6	2710.2	2696.0
45°	9792.5	7995.2	3926.3	2860.0	2813.7	2792.3	2724.5	2660.3	2606.8	2628.2	2596.1
47.5°	9888.8	7888.2	3566.1	2781.6	2720.9	2696.0	2628.2	2578.3	2524.8	2499.8	2492.7
50°	10274.0	8087.9	3263.0	2724.5	2642.5	2628.2	2539.1	2482.0	2432.1	2414.3	2421.4
52.5°	11194.0	8633.6	3056.2	2606.8	2567.6	2503.4	2453.5	2382.2	2350.1	2293.0	2328.7
55°	12360.1	9521.5	3002.7	2496.3	2474.9	2417.8	2350.1	2296.6	2236.0	2189.6	2178.9
56°	12734.6	9945.9	2959.9	2453.5	2417.8	2385.7	2296.6	2264.5	2168.2	2157.5	2150.4
57.5°	13037.7	10320.3	2967.0	2371.5	2335.8	2307.3	2253.8	2175.3	2111.1	2071.9	2089.7
60°	12353.0	9660.6	2831.5	2246.7	2239.5	2186.0	2111.1	2075.5	1997.0	1950.7	1940.0
62.5°	9182.7	6558.1	2296.6	2086.2	2082.6	2025.6	1940.0	1900.7	1886.5	1822.3	1822.3
65°	5288.5	4111.7	1986.3	1954.2	1925.7	1868.6	1783.1	1751.0	1715.3	1693.9	1676.1
67.5°	2257.3	2132.5	1804.5	1800.9	1768.8	1697.5	1611.9	1562.0	1515.6	1472.8	1494.2
70°	1636.8	1661.8	1629.7	1611.9	1572.7	1483.5	1408.6	1348.0	1276.7	1248.1	1269.5
72.5°	1298.1	1351.6	1397.9	1401.5	1355.1	1251.7	1169.7	1087.7	1009.2	970.0	987.8
75°	984.2	1019.9	1066.3	1077.0	1009.2	937.9	859.4	773.8	713.2	666.9	674.0
77.5°	709.7	702.5	745.3	738.2	706.1	656.2	584.8	506.4	438.6	395.8	399.4
80°	485.0	495.7	520.7	517.1	477.9	445.8	392.3	328.1	278.2	242.5	235.4
82.5°	338.8	356.6	378.0	360.2	328.1	296.0	256.8	210.4	171.2	142.6	135.5
85°	121.2	139.1	160.5	171.2	181.9	174.7	146.2	117.7	85.6	71.3	67.8
87.5°	25.0	28.5	32.1	32.1	32.1	28.5	25.0	25.0	21.4	10.7	10.7
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)