

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: P530104

Luminaire Tested: **GALN-SA5B-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530104  
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-SA5B-740-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA 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: 24153 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

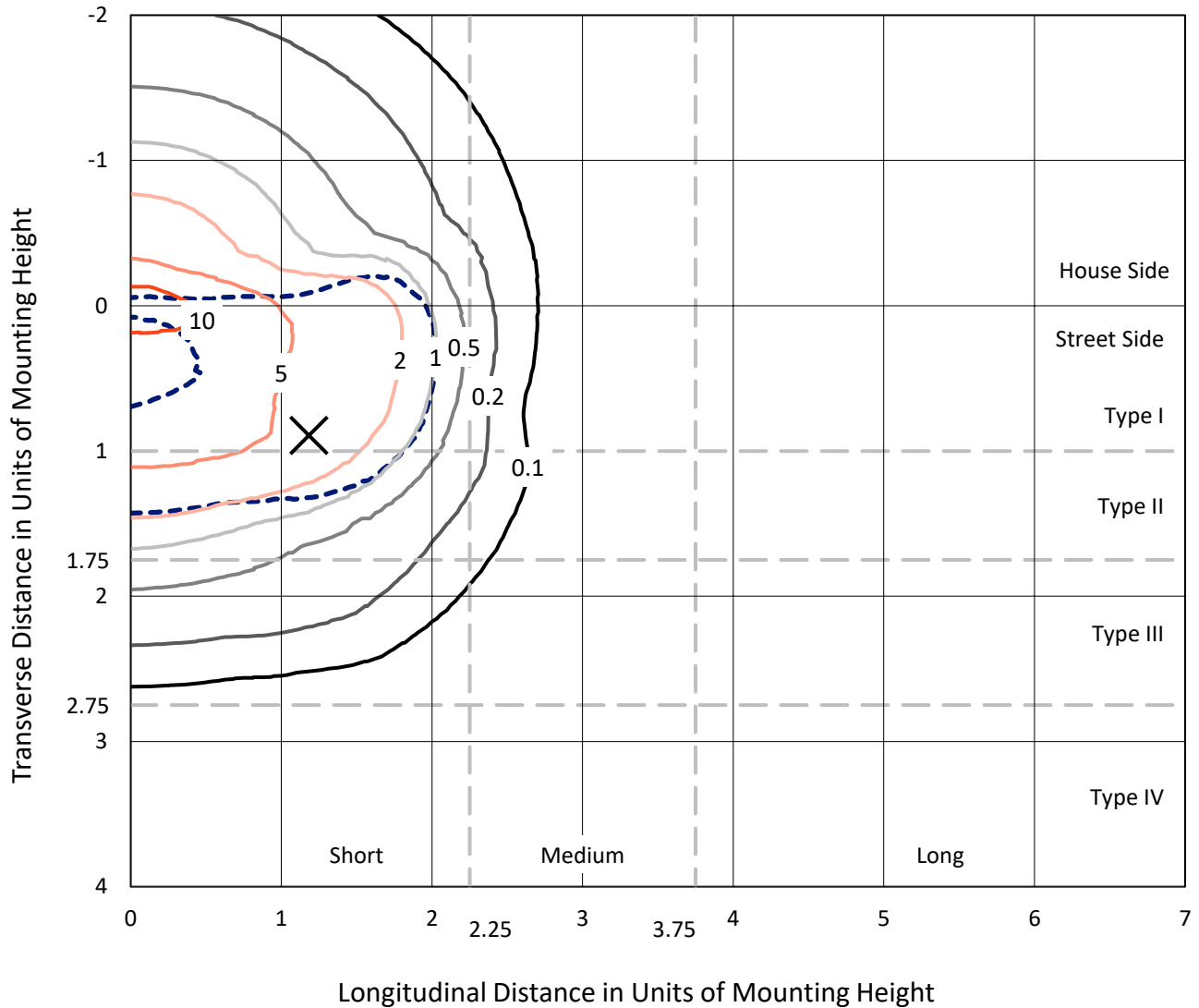
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

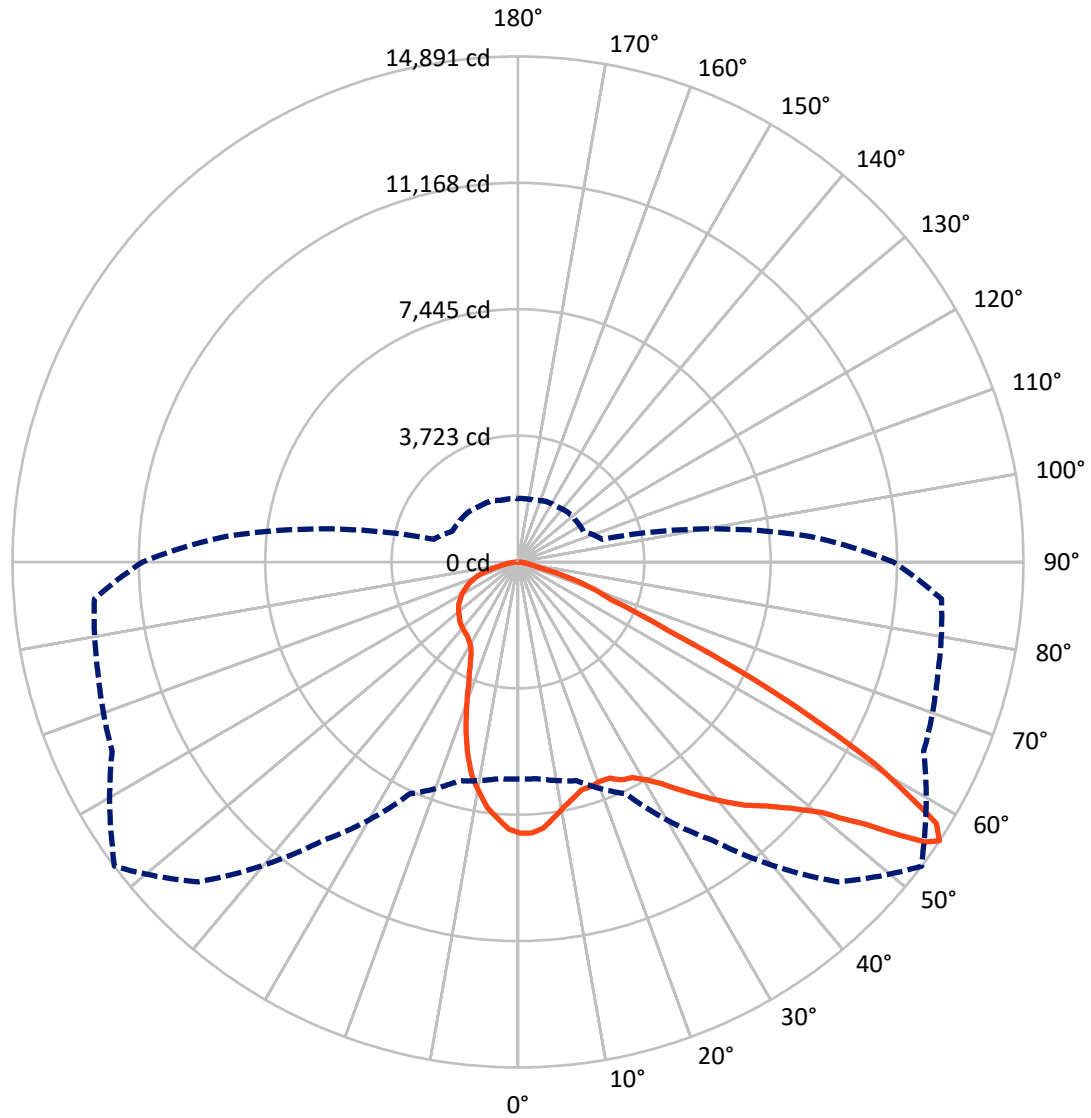
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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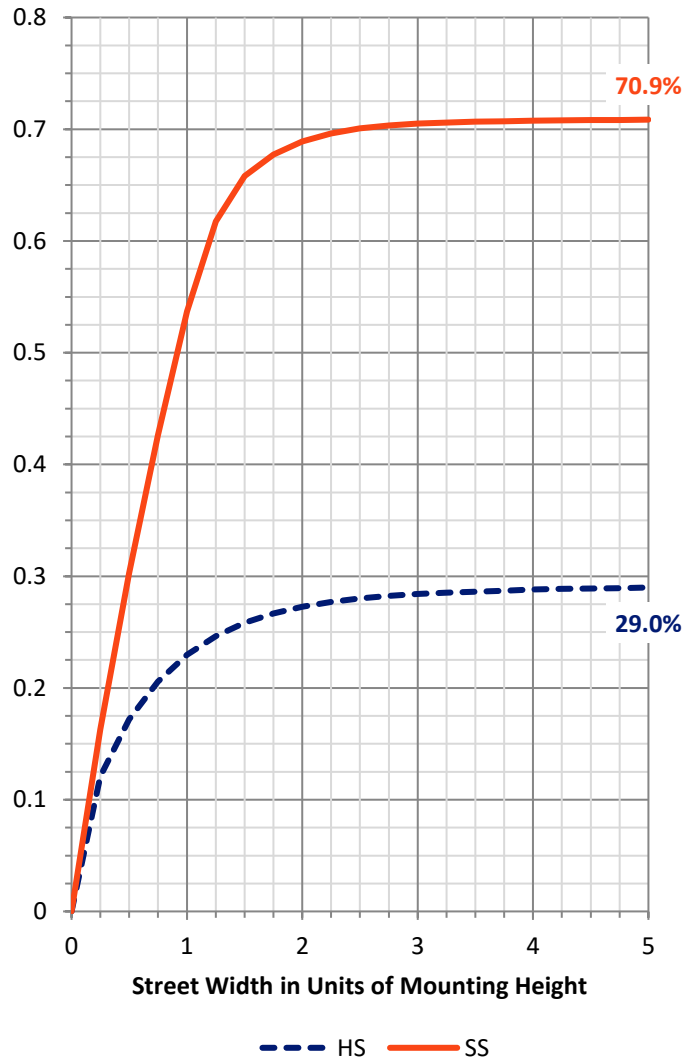
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7048.4	0.0	7048.4
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	17104.6	0.0	17104.6
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	24153.0	0.0	24153.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	707.4	2.9
10°-20°	1766.8	7.3
20°-30°	2605.3	10.8
30°-40°	3722.5	15.4
40°-50°	5123.5	21.2
50°-60°	6054.6	25.1
60°-70°	3226.7	13.4
70°-80°	818.6	3.4
80°-90°	127.6	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°	24153.0	100.0
0°-180°	24153.0	100.0

**Coefficient of Utilization**



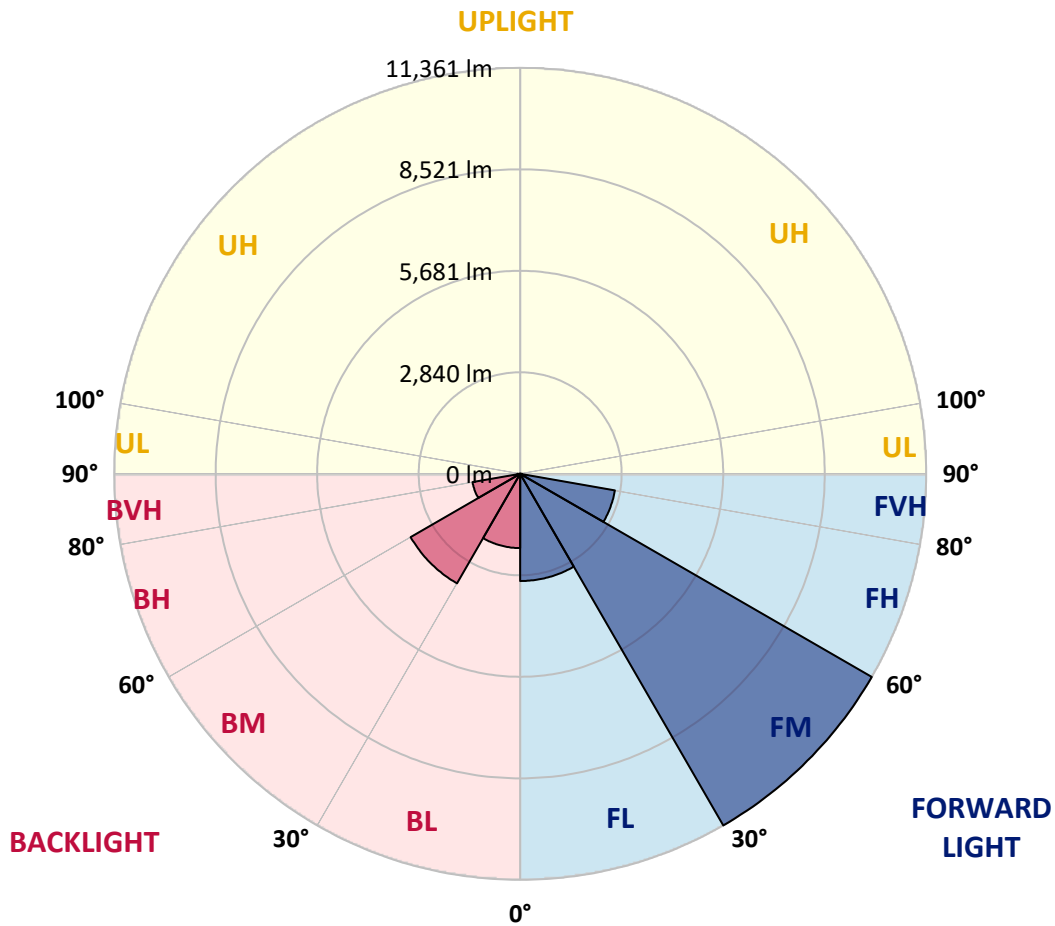
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3000.7	12.4			
FM (30°-60°)	11361.1	47.0			
FH (60°-80°)	2691.6	11.1			G2/5000
FVH (80°-90°)	51.3	0.2			G1/100
BL (0°-30°)	2078.9	8.6	B3/2500		
BM (30°-60°)	3539.5	14.7	B3/5000		
BH (60°-80°)	1353.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	76.3	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°	53°	55°	65°	75°	85°
0°	7990.8	7990.8	7990.8	7990.8	7990.8	7990.8	7990.8	7990.8	7990.8	7990.8	7990.8
2.5°	7891.6	7823.5	7863.7	7848.2	7975.3	8012.5	7993.9	8009.4	8080.6	8046.5	7975.3
5°	7374.2	7470.2	7488.8	7535.3	7609.7	7755.3	7869.9	7900.9	7935.0	8093.0	8077.5
7.5°	6903.2	6968.3	6934.2	7070.5	7231.7	7467.1	7606.6	7631.4	7944.3	8031.0	8096.1
10°	6605.8	6540.7	6695.6	6732.8	6915.6	7185.2	7352.5	7454.7	7739.8	8083.7	8124.0
12.5°	6330.0	6308.3	6401.3	6506.6	6711.1	6990.0	7160.4	7200.7	7640.6	8003.2	8192.2
15°	6125.5	6100.7	6193.7	6271.2	6509.7	6757.6	6974.5	7089.1	7532.2	7956.7	8133.3
17.5°	5964.4	5961.3	6014.0	6153.4	6398.2	6605.8	6955.9	6962.1	7476.4	8027.9	8182.9
20°	5955.1	5952.0	5961.3	6116.2	6339.3	6593.4	6897.0	6952.8	7476.4	7978.4	8186.0
22.5°	6032.6	5983.0	6038.8	6137.9	6299.0	6615.1	6918.7	7042.7	7656.1	8223.1	8325.4
25°	6156.5	6168.9	6199.9	6234.0	6326.9	6664.7	7110.8	7213.1	7866.8	8433.8	8517.5
27.5°	6382.7	6376.5	6388.9	6407.5	6488.0	6711.1	7188.3	7451.6	8306.8	8808.7	8725.1
30°	6714.2	6692.5	6742.1	6807.2	6732.8	6859.8	7445.4	7643.7	8715.8	9186.7	8957.5
32.5°	7014.8	7095.3	7188.3	7216.2	7126.3	7151.1	7786.3	7987.7	9056.6	9651.5	9242.5
35°	7389.7	7454.7	7578.7	7665.4	7649.9	7575.6	8251.0	8517.5	9549.3	9992.3	9543.1
37.5°	7755.3	7832.7	8037.2	8294.4	8151.9	8117.8	8746.8	8966.8	9701.1	10175.1	9763.0
40°	8344.0	8340.9	8694.1	8827.3	8954.4	8895.5	9261.1	9335.5	9781.6	10134.9	9769.2
42.5°	9034.9	8991.5	9351.0	9558.6	9722.8	9729.0	9797.1	9772.3	9818.8	9930.4	9704.2
45°	9691.8	9784.7	10147.2	10519.1	10683.3	10701.9	10249.5	10203.0	9883.9	9871.5	9580.2
47.5°	10494.3	10516.0	10813.4	11303.0	11684.1	11553.9	10835.1	10732.8	10168.9	10265.0	9787.8
50°	10540.7	10701.9	10968.3	11544.6	12715.8	12681.7	11594.2	11402.1	10627.5	10822.7	10367.2
52.5°	9567.8	9530.7	9846.7	10788.6	12638.4	13803.4	12852.1	12393.6	11612.8	11464.1	11306.0
55°	7290.5	7377.3	7656.1	8607.3	10974.5	13818.8	14565.6	14190.7	12666.2	12412.2	12229.4
56°	6395.1	6407.5	6670.8	7538.4	10014.0	13326.2	14890.9	14587.3	13189.9	12802.6	12523.7
57.5°	5301.4	5230.1	5366.4	5840.5	8452.4	12285.1	14534.6	14832.0	13803.4	13224.0	12836.7
60°	4173.5	4158.0	4102.3	4189.0	5341.6	9254.9	12099.2	12768.5	13741.4	12827.4	12294.4
62.5°	3408.2	3330.8	3442.3	3566.3	3711.9	5741.3	8502.0	8895.5	10909.5	10240.2	9236.3
65°	2642.9	2605.8	2745.2	3148.0	3234.7	3646.8	4842.8	5146.4	6441.6	6326.9	5570.9
67.5°	1818.8	1825.0	1945.8	2559.3	2999.2	2962.1	2965.2	3123.2	3361.8	2497.3	2175.1
70°	1152.6	1149.5	1214.6	1648.3	2413.7	2438.4	2314.5	2268.0	2150.3	1301.3	1378.8
72.5°	740.5	718.8	752.9	910.9	1248.7	1443.9	1487.2	1515.1	1245.6	1022.5	1109.2
75°	418.3	396.6	384.2	424.5	492.6	570.1	625.9	644.5	721.9	774.6	821.1
77.5°	127.0	114.6	139.4	185.9	244.8	328.4	399.7	412.1	486.4	548.4	594.9
80°	55.8	62.0	86.8	123.9	173.5	232.4	282.0	300.5	350.1	396.6	409.0
82.5°	34.1	37.2	58.9	83.7	120.8	164.2	201.4	207.6	257.2	294.3	303.6
85°	12.4	15.5	31.0	49.6	77.5	105.3	105.3	114.6	105.3	105.3	114.6
87.5°	0.0	0.0	3.1	6.2	6.2	9.3	12.4	12.4	15.5	18.6	21.7
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°	7990.8	7990.8	7990.8	7990.8	7990.8	7990.8	7990.8	7990.8	7990.8	7990.8	7990.8
2.5°	8012.5	7997.0	7972.2	7882.3	7873.0	7845.1	7690.2	7665.4	7690.2	7615.9	7622.1
5°	7997.0	8043.4	7857.5	7767.7	7600.4	7479.5	7340.1	7268.8	7141.8	7061.2	7151.1
7.5°	8065.1	8046.5	7814.2	7619.0	7368.0	7061.2	6816.5	6677.0	6454.0	6392.0	6438.5
10°	8040.3	7941.2	7668.5	7411.4	6937.3	6667.7	6271.2	5887.0	5676.3	5567.8	5552.3
12.5°	8006.3	7978.4	7522.9	7079.8	6581.0	6014.0	5456.3	5093.8	4749.8	4601.1	4622.8
15°	8046.5	7811.1	7250.2	6689.4	6026.4	5282.8	4681.7	4213.8	3975.2	3879.2	3879.2
17.5°	8027.9	7730.5	7120.1	6252.6	5412.9	4533.0	3873.0	3591.0	3491.9	3491.9	3519.8
20°	8037.2	7783.2	6856.8	5815.7	4687.9	3817.2	3337.0	3234.7	3278.1	3293.6	3309.1
22.5°	8089.9	7609.7	6599.6	5335.4	4015.5	3265.7	3030.2	3033.3	3110.8	3194.4	3179.0
25°	8155.0	7541.5	6286.6	4858.3	3501.2	2996.1	2921.8	2912.5	2971.4	3014.7	3020.9
27.5°	8099.2	7423.8	5967.5	4263.4	3079.8	2816.4	2801.0	2807.1	2825.7	2912.5	2884.6
30°	8282.0	7457.8	5567.8	3764.6	2847.4	2757.6	2739.0	2729.7	2757.6	2782.4	2760.7
32.5°	8508.2	7337.0	5270.4	3284.3	2732.8	2714.2	2677.0	2664.6	2680.1	2655.3	2667.7
35°	8607.3	7315.3	4883.1	2940.4	2642.9	2627.4	2605.8	2602.7	2605.8	2584.1	2565.5
37.5°	8663.1	7417.6	4440.0	2782.4	2587.2	2602.7	2553.1	2546.9	2491.1	2503.5	2512.8
40°	8759.2	7259.5	4080.6	2630.5	2553.1	2522.1	2478.7	2469.4	2432.2	2410.6	2432.2
42.5°	8619.7	7213.1	3727.4	2565.5	2503.5	2469.4	2438.4	2385.8	2373.4	2354.8	2342.4
45°	8508.2	6946.6	3411.3	2484.9	2444.6	2426.0	2367.2	2311.4	2264.9	2283.5	2255.6
47.5°	8591.9	6853.7	3098.4	2416.7	2364.1	2342.4	2283.5	2240.1	2193.7	2172.0	2165.8
50°	8926.5	7027.2	2835.0	2367.2	2295.9	2283.5	2206.1	2156.5	2113.1	2097.6	2103.8
52.5°	9725.9	7501.2	2655.3	2264.9	2230.8	2175.1	2131.7	2069.7	2041.8	1992.3	2023.3
55°	10739.0	8272.7	2608.8	2168.9	2150.3	2100.7	2041.8	1995.4	1942.7	1902.4	1893.1
56°	11064.4	8641.4	2571.7	2131.7	2100.7	2072.8	1995.4	1967.5	1883.8	1874.5	1868.3
57.5°	11327.7	8966.8	2577.9	2060.4	2029.4	2004.7	1958.2	1890.0	1834.3	1800.2	1815.7
60°	10732.8	8393.6	2460.1	1952.0	1945.8	1899.3	1834.3	1803.3	1735.1	1694.8	1685.5
62.5°	7978.4	5698.0	1995.4	1812.6	1809.5	1759.9	1685.5	1651.4	1639.1	1583.3	1583.3
65°	4594.9	3572.5	1725.8	1697.9	1673.1	1623.6	1549.2	1521.3	1490.3	1471.7	1456.2
67.5°	1961.3	1852.8	1567.8	1564.7	1536.8	1474.8	1400.5	1357.1	1316.8	1279.6	1298.2
70°	1422.2	1443.9	1416.0	1400.5	1366.4	1288.9	1223.9	1171.2	1109.2	1084.4	1103.0
72.5°	1127.8	1174.3	1214.6	1217.7	1177.4	1087.5	1016.3	945.0	876.8	842.8	858.3
75°	855.2	886.1	926.4	935.7	876.8	814.9	746.7	672.4	619.7	579.4	585.6
77.5°	616.6	610.4	647.6	641.4	613.5	570.1	508.1	440.0	381.1	343.9	347.0
80°	421.4	430.7	452.4	449.3	415.2	387.3	340.8	285.1	241.7	210.7	204.5
82.5°	294.3	309.8	328.4	312.9	285.1	257.2	223.1	182.8	148.7	123.9	117.7
85°	105.3	120.8	139.4	148.7	158.0	151.8	127.0	102.2	74.4	62.0	58.9
87.5°	21.7	24.8	27.9	27.9	27.9	24.8	21.7	21.7	18.6	9.3	9.3
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)