

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: P529378

Luminaire Tested: **GALN-SA4C-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529378  
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-SA4C-735-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 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: 21918 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

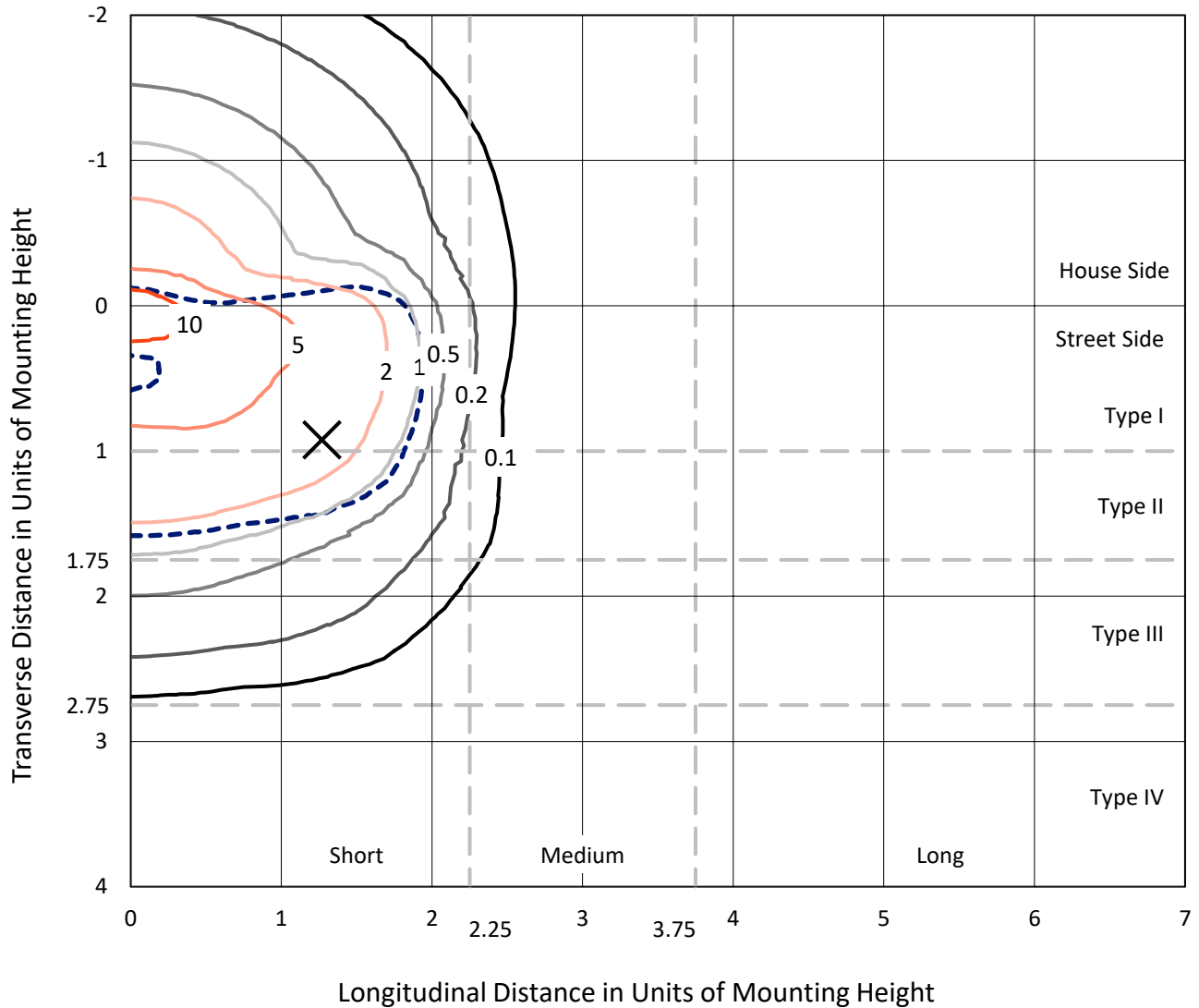
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

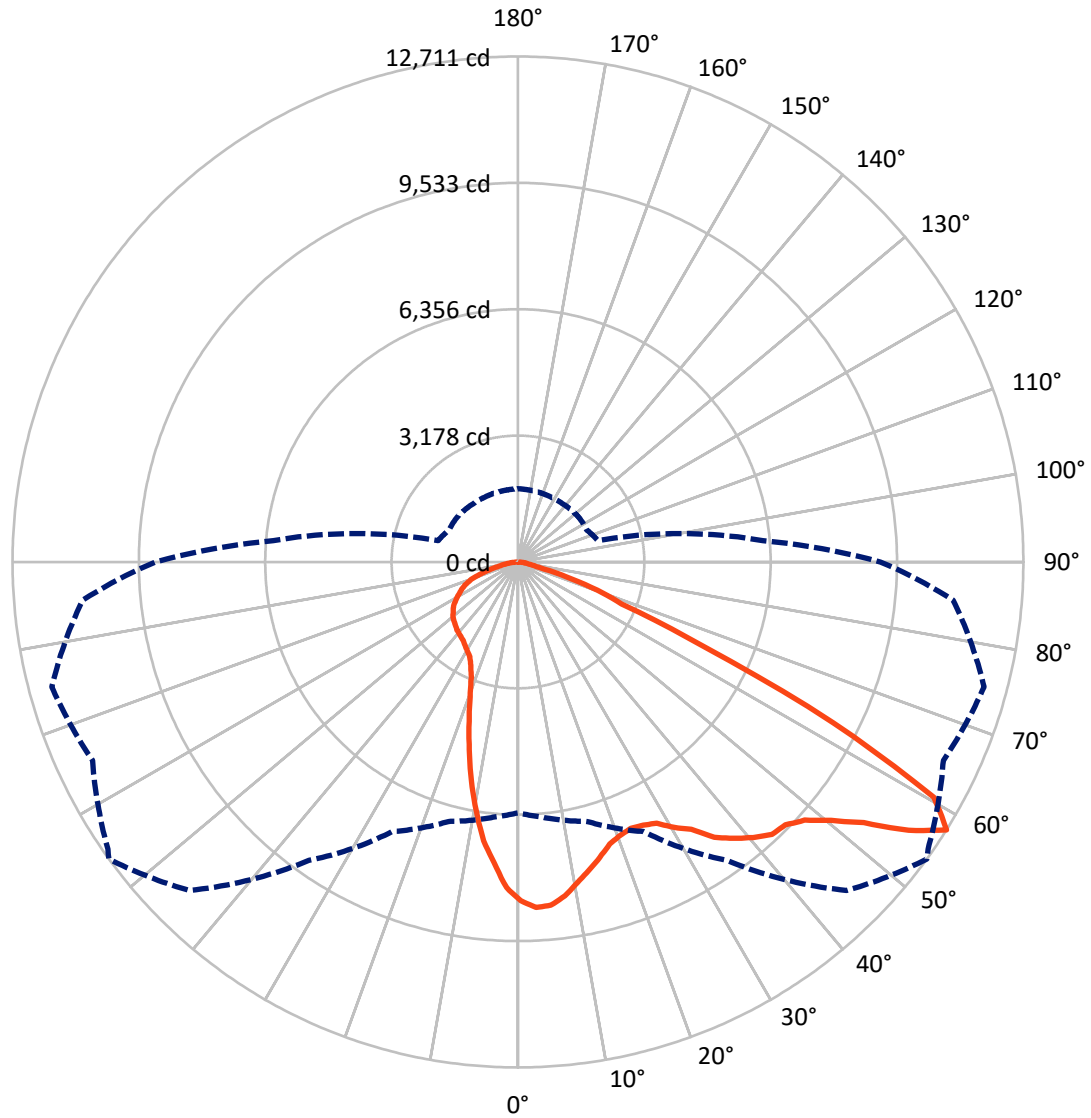
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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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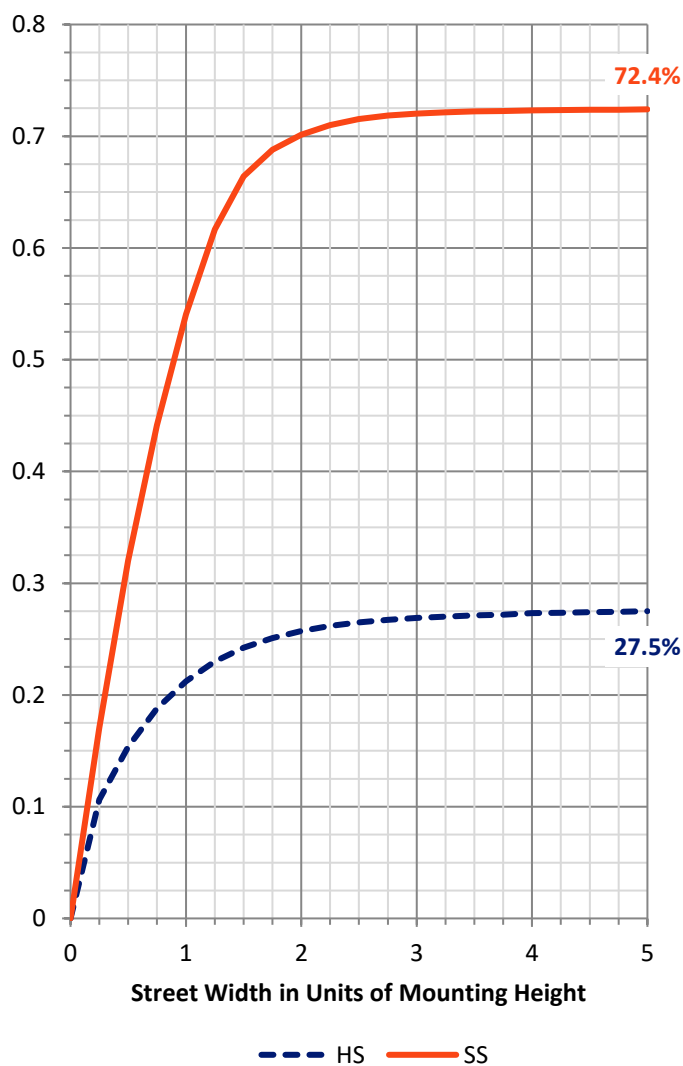
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6063.7	0.0	6063.7
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	15854.3	0.0	15854.3
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	21918.0	0.0	21918.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	734.7	3.4
10°-20°	1701.1	7.8
20°-30°	2390.1	10.9
30°-40°	3341.4	15.2
40°-50°	4523.6	20.6
50°-60°	5509.9	25.1
60°-70°	2869.8	13.1
70°-80°	735.3	3.4
80°-90°	112.2	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°	21918.0	100.0
0°-180°	21918.0	100.0

**Coefficient of Utilization**



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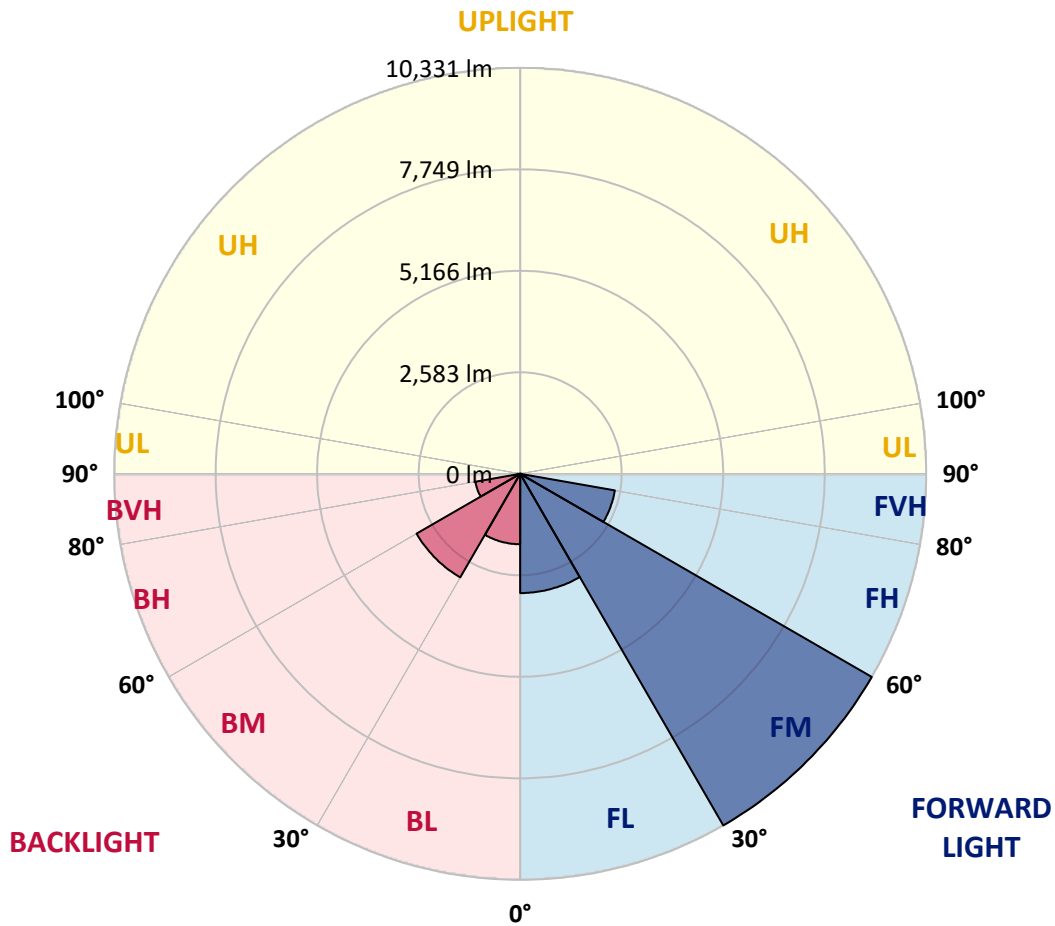
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3033.7	13.8			
FM (30°-60°)	10331.5	47.1			
FH (60°-80°)	2446.7	11.2			G2/5000
FVH (80°-90°)	42.4	0.2			G1/100
BL (0°-30°)	1792.1	8.2	B3/2500		
BM (30°-60°)	3043.3	13.9	B3/5000		
BH (60°-80°)	1158.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	69.8	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°	8519.3	8519.3	8519.3	8519.3	8519.3	8519.3	8519.3	8519.3	8519.3	8519.3	8519.3
2.5°	8761.6	8727.7	8733.4	8778.5	8722.1	8699.6	8699.6	8589.7	8598.2	8522.1	8502.4
5°	8558.7	8479.8	8533.4	8601.0	8612.2	8634.8	8671.4	8643.2	8564.4	8482.7	8350.2
7.5°	8029.1	8099.5	8119.2	8167.1	8268.5	8361.5	8477.0	8398.1	8395.3	8313.6	8234.7
10°	7564.2	7522.0	7629.0	7699.5	7868.5	8023.4	8200.9	8192.5	8234.7	8141.8	8006.5
12.5°	7102.2	7068.4	7119.1	7279.7	7516.3	7741.7	7953.0	7874.1	8099.5	8082.6	7792.4
15°	6612.0	6637.4	6710.6	6859.9	7169.8	7440.3	7707.9	7710.7	7910.8	7978.4	7589.6
17.5°	6268.3	6240.1	6333.1	6555.7	6831.8	7155.7	7460.0	7522.0	7829.1	7868.5	7527.6
20°	6011.9	6051.4	6172.5	6285.2	6603.6	6995.2	7338.9	7361.4	7812.2	7919.2	7429.0
22.5°	5950.0	5927.4	5966.9	6150.0	6412.0	6837.4	7274.1	7358.6	7809.3	7902.3	7243.1
25°	5885.2	5958.4	5955.6	6138.7	6330.3	6710.6	7327.6	7420.6	7958.6	7989.6	7268.4
27.5°	6031.7	6023.2	6102.1	6116.2	6352.8	6744.4	7440.3	7510.7	8206.6	8181.2	7288.2
30°	6178.2	6135.9	6183.8	6350.0	6459.9	6938.8	7750.2	7744.5	8527.7	8510.8	7350.1
32.5°	6358.5	6338.7	6369.7	6516.2	6702.2	7198.0	8012.2	8178.4	8854.5	8961.6	7564.2
35°	6392.3	6474.0	6547.2	6744.4	7009.2	7617.8	8505.2	8643.2	9232.0	9567.3	7972.7
37.5°	6606.4	6637.4	6809.2	7158.6	7400.8	8178.4	8817.9	8905.2	9575.7	9956.1	8403.8
40°	6834.6	6871.2	7130.4	7496.6	7829.1	8544.6	9110.9	9139.1	9685.6	10254.7	8685.5
42.5°	7144.5	7178.3	7434.6	7893.9	8339.0	8857.3	9370.1	9401.1	9677.2	10598.4	9133.4
45°	7465.6	7547.3	7848.8	8370.0	8770.0	9223.6	9429.2	9556.0	9756.0	10905.5	9496.9
47.5°	7916.4	7992.5	8240.4	8750.3	9217.9	9544.7	9702.5	9826.5	9944.8	11173.1	9730.7
50°	8395.3	8409.4	8710.8	9172.9	9516.6	9908.2	10212.4	10254.7	10192.7	11483.0	10127.9
52.5°	8747.5	8792.5	9026.4	9477.1	9989.9	10471.6	10888.6	10933.6	10812.5	11598.5	10263.1
55°	8164.3	8139.0	8519.3	9119.3	10308.2	11311.1	11916.8	11950.7	11263.2	11956.3	10705.4
57.5°	6310.6	6431.7	6755.7	7479.7	9158.8	11683.0	12711.3	12590.2	11804.2	12136.6	10987.2
60°	4586.4	4558.3	4775.2	5259.8	6902.2	10068.7	12018.3	12142.2	11361.9	10939.3	9060.2
62.5°	3735.6	3696.2	3713.1	3730.0	4454.0	6682.4	8896.8	8894.0	8750.3	7862.9	6110.6
65°	2986.3	3079.2	3087.7	3214.4	3307.4	3992.0	5155.5	5431.6	4730.1	3879.3	2814.4
67.5°	2251.0	2217.2	2329.8	2780.6	2955.3	2882.0	2814.4	2845.4	2022.8	1459.3	1374.8
70°	1326.9	1312.8	1448.1	1938.2	2434.1	2290.4	2121.4	2124.2	1388.9	1019.8	1135.3
72.5°	726.8	724.0	752.2	983.2	1383.3	1436.8	1273.4	1312.8	828.3	825.4	887.4
75°	405.7	397.2	388.8	433.9	498.6	526.8	538.1	543.7	569.1	636.7	662.0
77.5°	149.3	143.7	143.7	166.2	211.3	264.8	335.2	340.9	402.9	462.0	487.4
80°	50.7	56.3	76.1	104.2	140.9	188.8	228.2	233.8	284.5	324.0	332.4
82.5°	31.0	33.8	50.7	73.2	101.4	132.4	169.0	171.9	211.3	236.6	247.9
85°	14.1	16.9	28.2	45.1	64.8	87.3	90.2	90.2	87.3	90.2	84.5
87.5°	0.0	0.0	5.6	5.6	5.6	8.5	11.3	8.5	14.1	16.9	16.9
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°	8519.3	8519.3	8519.3	8519.3	8519.3	8519.3	8519.3	8519.3	8519.3	8519.3	8519.3
2.5°	8443.2	8412.2	8316.4	8231.9	8206.6	8093.9	7927.7	7947.4	7826.2	7882.6	7823.4
5°	8327.7	8223.5	7978.4	7874.1	7600.9	7476.9	7392.4	7181.1	7082.5	7062.8	6978.3
7.5°	8031.9	7967.1	7660.0	7378.3	7088.1	6840.2	6521.9	6304.9	6150.0	6107.7	5983.8
10°	7798.1	7654.4	7229.0	6800.8	6386.6	5955.6	5541.5	5217.5	5059.7	4876.6	4814.6
12.5°	7567.1	7350.1	6775.4	6226.1	5690.8	5147.1	4645.6	4251.2	3907.5	3825.8	3797.6
15°	7423.4	7045.9	6369.7	5707.7	4947.0	4237.1	3735.6	3476.5	3265.2	3177.8	3239.8
17.5°	7234.6	6795.1	5981.0	5099.2	4262.5	3608.9	3189.1	3028.5	2952.4	2960.9	2935.5
20°	6998.0	6558.5	5471.0	4547.0	3651.1	3129.9	2890.5	2831.3	2842.6	2862.3	2853.8
22.5°	6828.9	6271.1	5102.0	3983.6	3155.3	2865.1	2766.5	2724.3	2760.9	2777.8	2763.7
25°	6699.4	6026.0	4654.0	3484.9	2867.9	2715.8	2670.7	2667.9	2724.3	2746.8	2732.7
27.5°	6581.0	5797.8	4208.9	3104.6	2676.4	2600.3	2586.2	2620.0	2656.6	2679.2	2698.9
30°	6510.6	5623.2	3792.0	2786.2	2580.6	2544.0	2518.6	2549.6	2569.3	2591.8	2580.6
32.5°	6578.2	5499.2	3389.1	2605.9	2501.7	2465.1	2498.9	2479.2	2513.0	2532.7	2501.7
35°	6789.5	5389.3	3101.8	2510.1	2411.5	2425.6	2431.3	2422.8	2436.9	2420.0	2456.6
37.5°	6998.0	5349.9	2836.9	2428.4	2369.3	2369.3	2363.6	2346.7	2374.9	2369.3	2386.2
40°	7262.8	5375.3	2611.6	2341.1	2329.8	2324.2	2301.7	2298.9	2287.6	2290.4	2296.0
42.5°	7493.8	5431.6	2482.0	2284.8	2293.2	2304.5	2262.2	2228.4	2242.5	2214.3	2214.3
45°	7738.9	5482.3	2366.5	2245.3	2236.9	2234.1	2200.2	2180.5	2169.3	2172.1	2197.4
47.5°	8124.9	5555.6	2279.1	2191.8	2197.4	2155.2	2146.7	2121.4	2132.6	2149.5	2152.4
50°	8398.1	5710.5	2211.5	2129.8	2149.5	2121.4	2070.7	2059.4	2059.4	2087.6	2081.9
52.5°	8589.7	5927.4	2146.7	2062.2	2070.7	2048.1	2031.2	2005.9	1989.0	2028.4	2048.1
55°	9175.7	6288.0	2129.8	2005.9	2003.0	1980.5	1949.5	1924.2	1915.7	1921.3	1960.8
57.5°	9119.3	6175.3	2076.3	1907.3	1901.6	1870.6	1839.6	1831.2	1828.4	1834.0	1845.3
60°	7403.7	4561.1	1853.7	1794.6	1786.1	1780.5	1749.5	1715.7	1698.8	1715.7	1701.6
62.5°	4899.1	3053.9	1634.0	1659.3	1665.0	1650.9	1600.2	1566.4	1572.0	1591.7	1560.7
65°	2405.9	1794.6	1481.9	1549.5	1555.1	1515.7	1467.8	1428.3	1408.6	1425.5	1411.4
67.5°	1374.8	1372.0	1357.9	1428.3	1425.5	1386.1	1310.0	1276.2	1242.4	1248.0	1239.6
70°	1166.3	1188.9	1217.0	1259.3	1256.5	1211.4	1121.3	1095.9	1048.0	1042.4	1028.3
72.5°	918.4	957.9	1019.8	1050.8	1025.5	969.1	910.0	867.7	825.4	800.1	808.5
75°	681.8	738.1	771.9	791.6	752.2	721.2	673.3	622.6	571.9	549.4	540.9
77.5°	495.8	512.7	543.7	557.8	532.5	501.5	473.3	422.6	374.7	343.7	335.2
80°	346.5	357.8	380.3	380.3	380.3	366.2	329.6	278.9	247.9	219.7	214.1
82.5°	242.3	253.5	276.1	264.8	262.0	245.1	222.6	183.1	149.3	129.6	124.0
85°	84.5	93.0	112.7	135.2	143.7	140.9	126.8	101.4	78.9	64.8	59.2
87.5°	19.7	19.7	22.5	19.7	19.7	22.5	19.7	19.7	19.7	14.1	11.3
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)