

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: P648447

Luminaire Tested: **GALN-SA5B-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648447  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-835-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19607.1 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

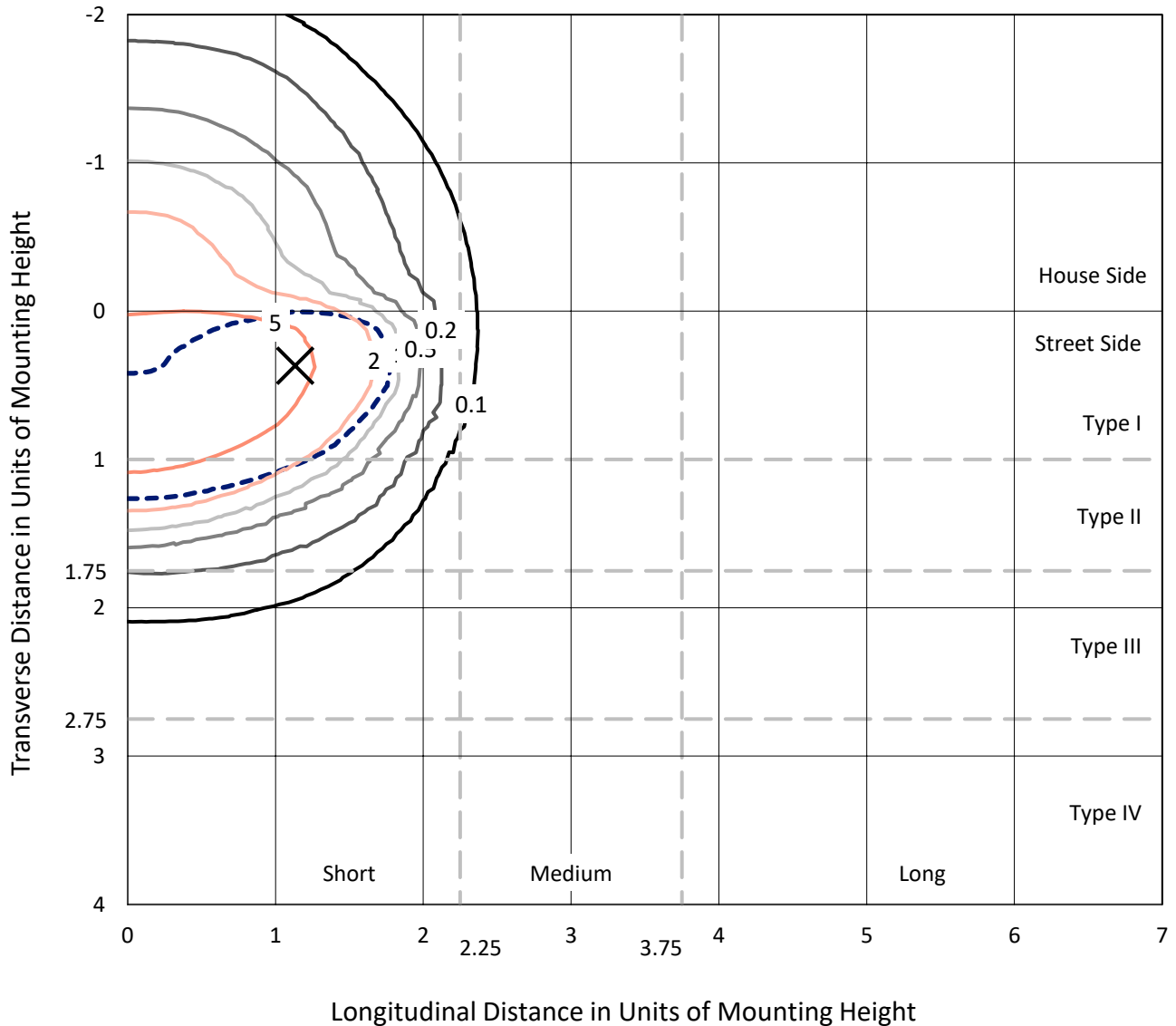
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

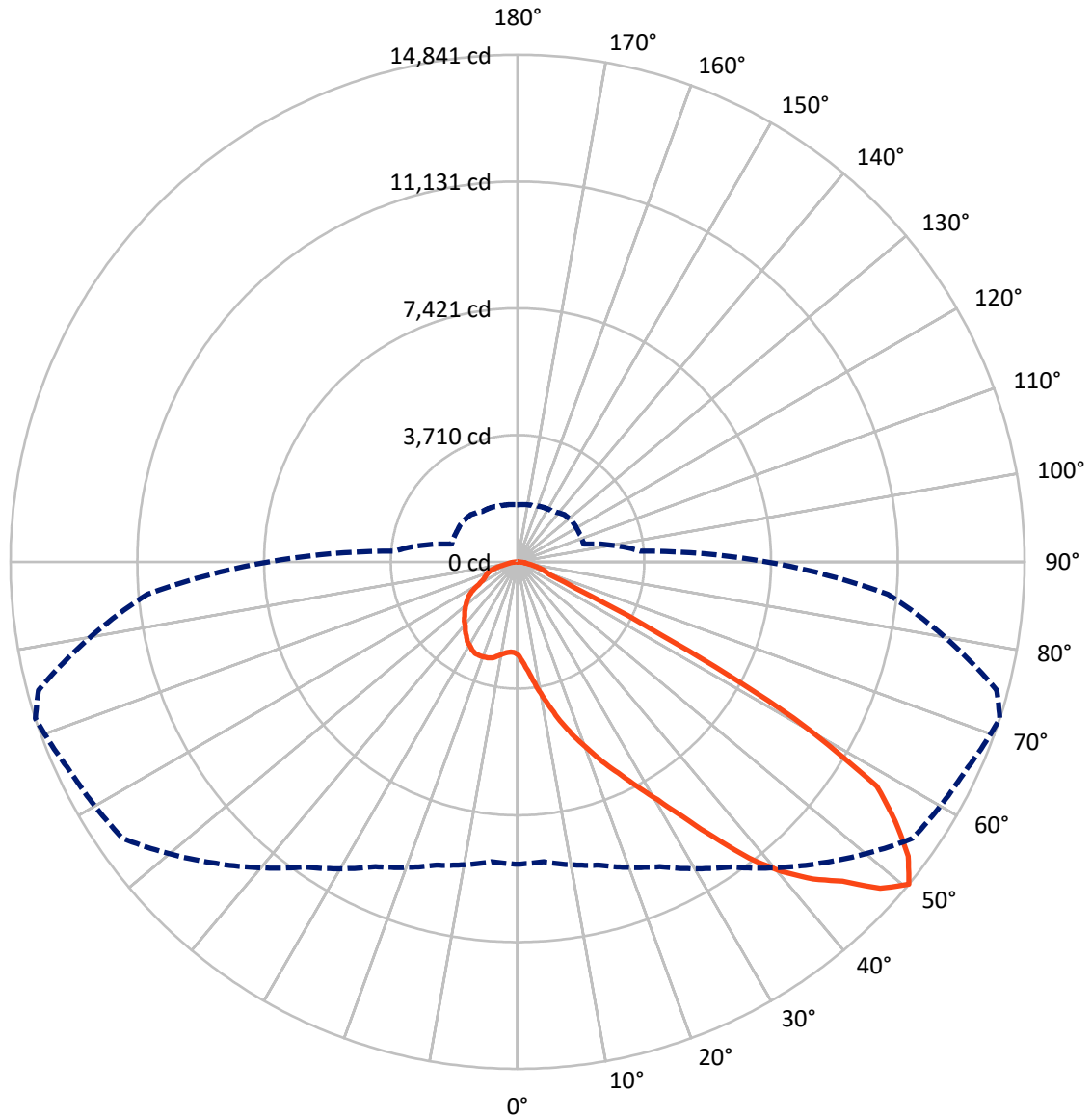
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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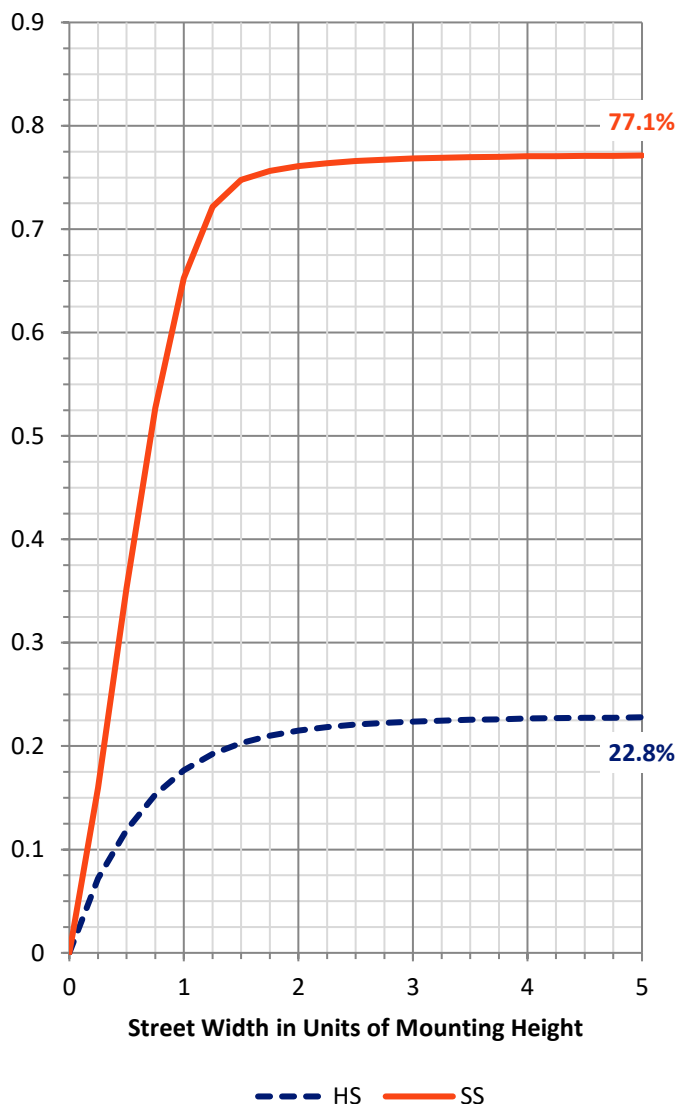
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4492.1	0.0	4492.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	15115.0	0.0	15115.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	19607.1	0.0	19607.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.1	1.6
10°-20°	1200.2	6.1
20°-30°	2327.1	11.9
30°-40°	3855.2	19.7
40°-50°	5394.3	27.5
50°-60°	4550.8	23.2
60°-70°	1387.1	7.1
70°-80°	486.6	2.5
80°-90°	84.6	0.4
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°	19607.1	100.0
0°-180°	19607.1	100.0

**Coefficient of Utilization**



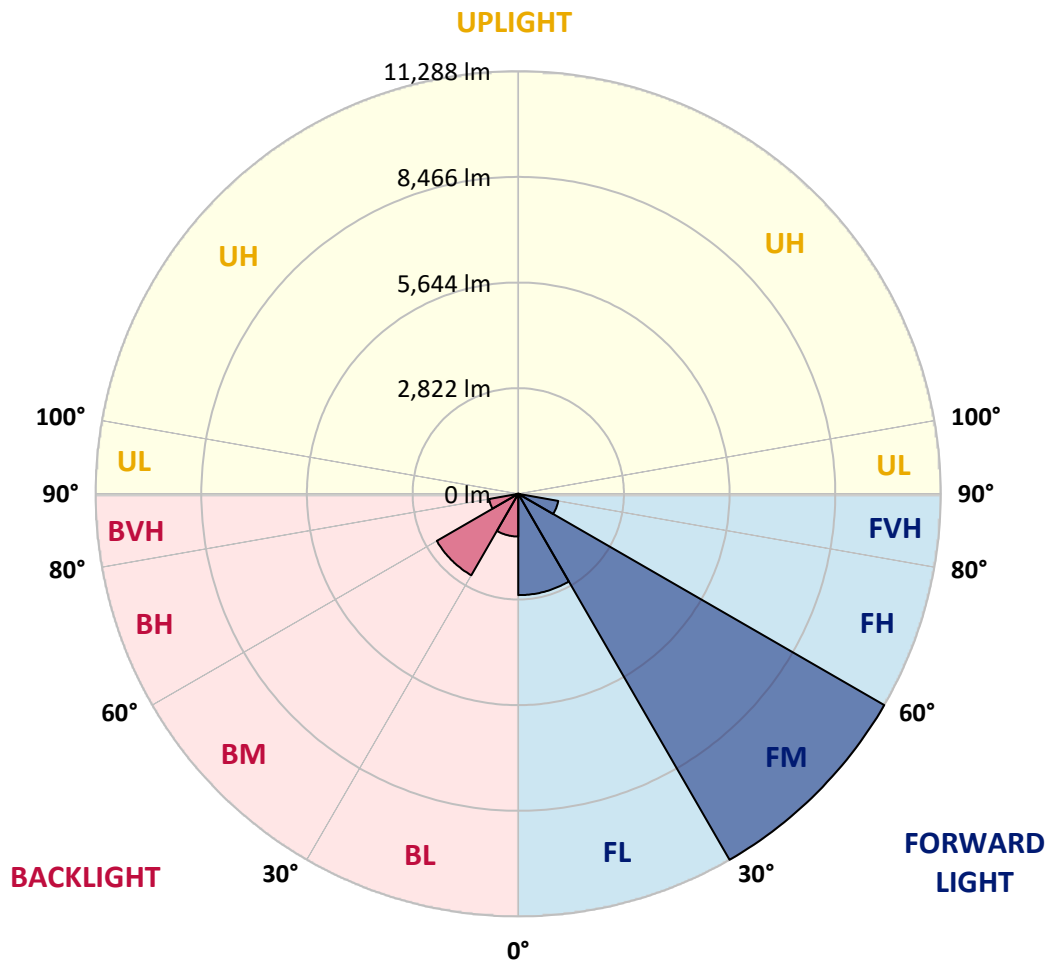
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2706.5	13.8			
FM (30°-60°)	11288.3	57.6			
FH (60°-80°)	1082.3	5.5			G1/1800
FVH (80°-90°)	37.9	0.2			G1/100
BL (0°-30°)	1141.9	5.8	B3/2500		
BM (30°-60°)	2512.0	12.8	B3/5000		
BH (60°-80°)	791.4	4.0	B2/1000		G2/1000
BVH (80°-90°)	46.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5
2.5°	3510.7	3488.9	3423.4	3401.5	3323.9	3183.2	3134.7	2991.5	2930.8	2875.0	2809.6
5°	4439.9	4338.1	4330.8	4207.1	4027.5	3923.1	3612.6	3403.9	3212.3	3115.2	2935.7
7.5°	5031.9	5034.4	5034.4	4932.4	4789.3	4524.9	4245.8	3869.8	3581.1	3437.9	3132.2
10°	5594.8	5546.3	5519.6	5509.9	5412.9	5155.7	4857.3	4391.5	3996.0	3828.6	3280.2
12.5°	5992.7	5951.5	6012.1	5980.6	5910.2	5742.8	5461.3	4930.0	4435.1	4209.5	3518.0
15°	6181.9	6211.1	6259.6	6346.9	6315.4	6252.3	5941.8	5483.2	4908.2	4653.4	3729.0
17.5°	6473.1	6393.0	6451.3	6560.4	6647.8	6618.7	6441.6	5883.5	5376.5	5063.5	4013.0
20°	6676.9	6630.8	6659.9	6786.1	6851.6	7016.5	6924.4	6407.6	5825.3	5495.3	4347.8
22.5°	7259.2	7191.2	7096.6	7116.1	7140.3	7256.8	7278.6	6982.6	6346.9	5997.5	4665.6
25°	7977.4	7914.3	7802.7	7688.7	7618.3	7596.4	7671.7	7433.9	6846.7	6485.2	5007.7
27.5°	8768.3	8661.5	8591.2	8355.9	8166.6	8137.5	8101.1	7972.5	7438.7	7048.1	5393.5
30°	9537.4	9452.5	9357.9	8981.8	8785.3	8753.7	8574.2	8610.6	8081.7	7647.4	5830.1
32.5°	10119.6	10126.9	9911.1	9627.1	9442.7	9275.3	9209.9	9314.2	8906.5	8557.2	6317.8
35°	10590.4	10612.2	10406.0	10148.8	9949.8	10066.3	10037.2	10085.7	9891.6	9464.6	6885.5
37.5°	11048.9	10939.8	10719.0	10595.2	10490.9	10682.5	10930.1	10971.3	11007.6	10505.4	7545.5
40°	11124.2	11133.9	11005.2	11092.6	10961.6	11250.3	11825.3	11771.9	11919.9	11480.8	8261.2
42.5°	11017.4	11039.2	11090.2	11213.9	11529.3	11876.2	12730.2	12511.9	12691.5	12300.9	8957.5
45°	10842.7	10752.9	10816.0	11286.7	11832.6	12604.1	13557.6	13387.8	13329.6	13002.0	9787.3
47.5°	10008.1	10100.3	10296.8	10876.7	11696.7	12730.2	14144.7	14105.9	14280.6	14050.2	10541.8
50°	8850.8	8814.4	9192.9	9845.5	10903.4	12482.8	14113.2	14465.0	14841.1	14520.8	10879.1
52.5°	6628.4	6822.5	7147.6	7957.9	9467.0	11133.9	13424.1	14011.3	14317.0	14249.1	10607.4
55°	4190.1	4248.2	4444.8	5408.0	6766.7	8935.7	11507.4	12868.6	13414.4	13669.2	10357.4
57.5°	2035.6	1926.4	2166.6	2940.6	3908.6	6009.7	8875.1	11209.0	12395.4	12856.5	9814.0
60°	1062.7	1104.0	1198.5	1475.1	2021.0	3120.1	5531.7	7470.3	9282.6	9991.1	7438.7
62.5°	880.7	895.3	958.3	1096.7	1344.1	1795.4	2824.1	3641.7	4733.5	5371.6	4231.3
65°	747.3	754.6	822.5	914.7	1072.4	1264.1	1453.3	1521.2	1841.5	1890.0	1504.2
67.5°	623.5	630.8	703.6	790.9	892.9	943.8	992.3	987.4	1023.9	1009.3	1006.9
70°	480.4	487.7	562.9	655.1	706.0	676.9	827.3	861.3	875.9	888.0	907.4
72.5°	346.9	361.5	419.8	485.2	458.5	526.5	681.8	732.7	752.1	759.4	783.6
75°	252.4	257.2	271.7	252.4	291.1	366.4	480.4	543.5	567.8	575.0	611.4
77.5°	111.6	114.0	116.4	145.6	186.8	228.1	286.3	337.2	371.2	380.9	390.6
80°	58.3	60.7	75.2	99.4	133.4	167.4	208.7	237.8	259.6	262.0	271.7
82.5°	36.4	38.8	53.4	70.4	94.6	123.7	152.8	177.1	194.1	196.5	199.0
85°	17.0	21.8	31.6	43.7	63.1	80.1	82.5	70.4	75.2	77.7	72.8
87.5°	4.9	7.3	9.7	7.3	9.7	9.7	12.1	14.6	14.6	14.6	17.0
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°	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5
2.5°	2773.2	2751.3	2666.4	2634.9	2552.3	2566.9	2523.2	2520.8	2511.1	2508.7	2506.2
5°	2841.1	2773.2	2671.3	2593.6	2547.5	2542.6	2511.1	2511.1	2520.8	2528.1	2511.1
7.5°	2952.7	2875.0	2702.8	2630.0	2588.8	2581.5	2559.6	2542.6	2564.5	2557.2	2537.8
10°	3081.3	2945.4	2763.4	2700.3	2632.4	2615.5	2615.5	2622.7	2586.3	2598.5	2579.0
12.5°	3224.4	3042.4	2841.1	2768.3	2688.2	2678.6	2673.7	2620.3	2639.7	2630.0	2581.5
15°	3406.4	3154.1	2940.6	2816.8	2748.9	2705.2	2642.2	2632.4	2620.3	2596.0	2574.2
17.5°	3602.9	3275.4	2986.7	2831.4	2729.5	2697.9	2649.4	2598.5	2562.1	2566.9	2549.9
20°	3770.3	3386.9	3003.7	2846.0	2714.9	2654.3	2579.0	2547.5	2508.7	2506.2	2503.9
22.5°	3969.3	3537.4	3027.9	2807.1	2671.3	2608.2	2557.2	2501.5	2474.7	2440.8	2457.8
25°	4207.1	3595.6	3032.7	2785.3	2639.7	2528.1	2501.5	2440.8	2431.1	2382.5	2392.2
27.5°	4379.3	3627.2	2994.0	2717.3	2566.9	2482.0	2433.5	2389.8	2372.8	2336.4	2326.8
30°	4609.8	3675.7	2911.4	2632.4	2494.2	2399.5	2370.4	2360.7	2312.2	2273.4	2268.5
32.5°	4871.8	3707.3	2858.0	2545.1	2418.9	2346.1	2360.7	2314.6	2253.9	2220.0	2210.3
35°	5080.5	3719.3	2724.6	2445.6	2367.9	2321.9	2304.9	2295.2	2207.8	2176.3	2152.1
37.5°	5398.3	3692.7	2613.0	2375.2	2312.2	2295.2	2280.6	2215.1	2115.7	2069.5	2035.6
40°	5769.5	3685.4	2469.9	2275.8	2258.8	2278.2	2234.5	2132.7	1994.3	1943.4	1919.1
42.5°	6126.2	3736.3	2380.1	2222.4	2200.5	2207.8	2147.2	1994.3	1926.4	1897.3	1858.5
45°	6723.0	3843.1	2232.1	2139.9	2130.2	2125.4	2052.6	1892.4	1853.6	1817.2	1810.0
47.5°	7261.6	3772.7	2137.5	2055.0	2064.7	2038.0	1882.7	1831.8	1788.1	1751.7	1739.6
50°	7293.2	3605.3	2004.0	1989.4	1991.9	1945.8	1797.8	1763.9	1708.0	1683.8	1666.8
52.5°	7128.2	3331.2	1880.3	1885.2	1892.4	1817.2	1693.5	1669.2	1623.2	1589.2	1579.5
55°	6664.7	2904.1	1759.0	1778.4	1797.8	1654.6	1615.9	1555.2	1518.8	1470.2	1472.7
57.5°	5871.4	2338.8	1589.2	1620.7	1661.9	1504.2	1475.1	1399.9	1346.5	1307.7	1302.8
60°	3935.3	1664.3	1334.4	1346.5	1438.8	1375.7	1373.2	1298.0	1225.2	1191.3	1171.8
62.5°	2321.9	1271.4	1152.4	1140.3	1137.9	1174.3	1234.9	1208.2	1113.7	1048.1	1067.5
65°	1215.5	1099.1	1072.4	1031.1	1006.9	997.2	1043.3	1055.4	992.3	922.0	917.1
67.5°	1021.4	1021.4	999.6	985.0	951.0	909.8	880.7	841.9	832.2	812.8	788.5
70°	929.3	953.5	946.3	912.3	883.1	837.0	761.9	698.7	638.1	616.2	630.8
72.5°	810.3	834.6	834.6	817.6	778.8	708.5	635.6	562.9	511.9	473.1	468.2
75°	623.5	635.6	664.8	645.3	594.5	550.8	475.5	400.3	351.8	315.4	308.1
77.5°	397.9	417.3	417.3	414.9	378.5	337.2	288.7	235.4	199.0	172.3	165.0
80°	264.4	276.6	286.3	276.6	252.4	220.8	184.4	148.0	121.3	99.4	94.6
82.5°	194.1	208.7	216.0	206.2	182.0	157.7	131.0	104.3	77.7	60.7	55.8
85°	75.2	77.7	87.3	104.3	101.9	99.4	80.1	58.3	43.7	31.6	29.1
87.5°	19.4	17.0	19.4	19.4	17.0	14.6	14.6	14.6	14.6	7.3	9.7
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)