

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: P318829

Luminaire Tested: **GLEON-SA5A-827-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5A-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17225 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

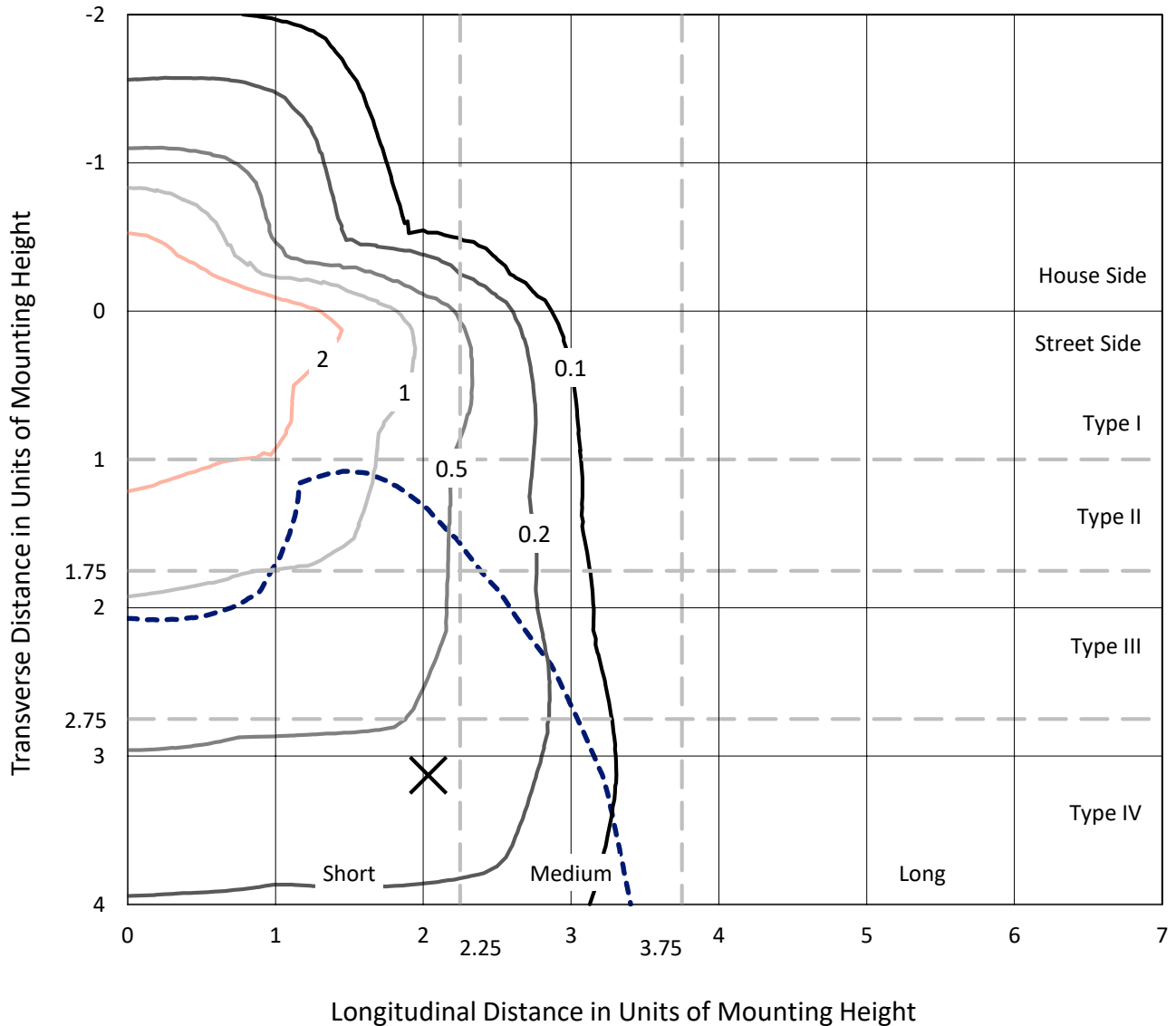
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

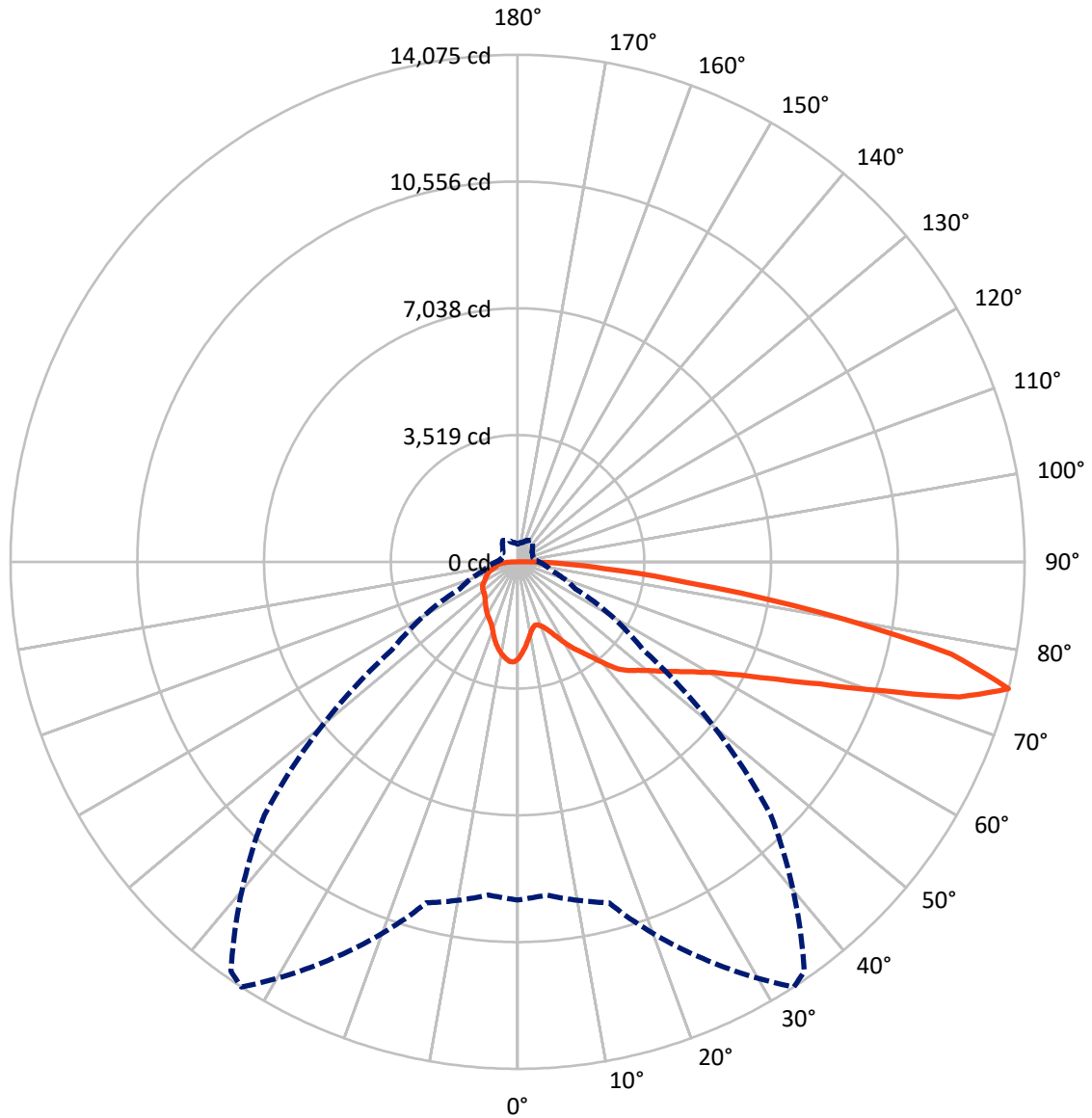
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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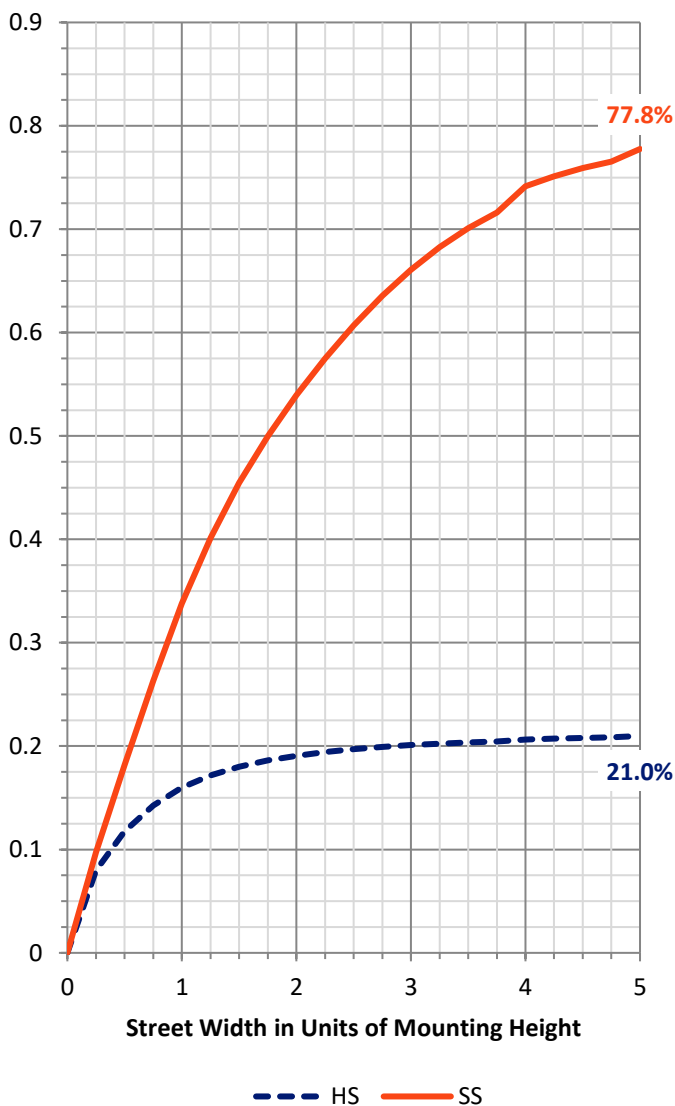
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3698.7	0.0	3698.7
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	13526.3	0.0	13526.3
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	17225.0	0.0	17225.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.5	1.4
10°-20°	659.5	3.8
20°-30°	1077.0	6.3
30°-40°	1603.9	9.3
40°-50°	2300.5	13.4
50°-60°	3158.2	18.3
60°-70°	3953.9	23.0
70°-80°	3576.9	20.8
80°-90°	651.6	3.8
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°	17225.0	100.0
0°-180°	17225.0	100.0

**Coefficient of Utilization**

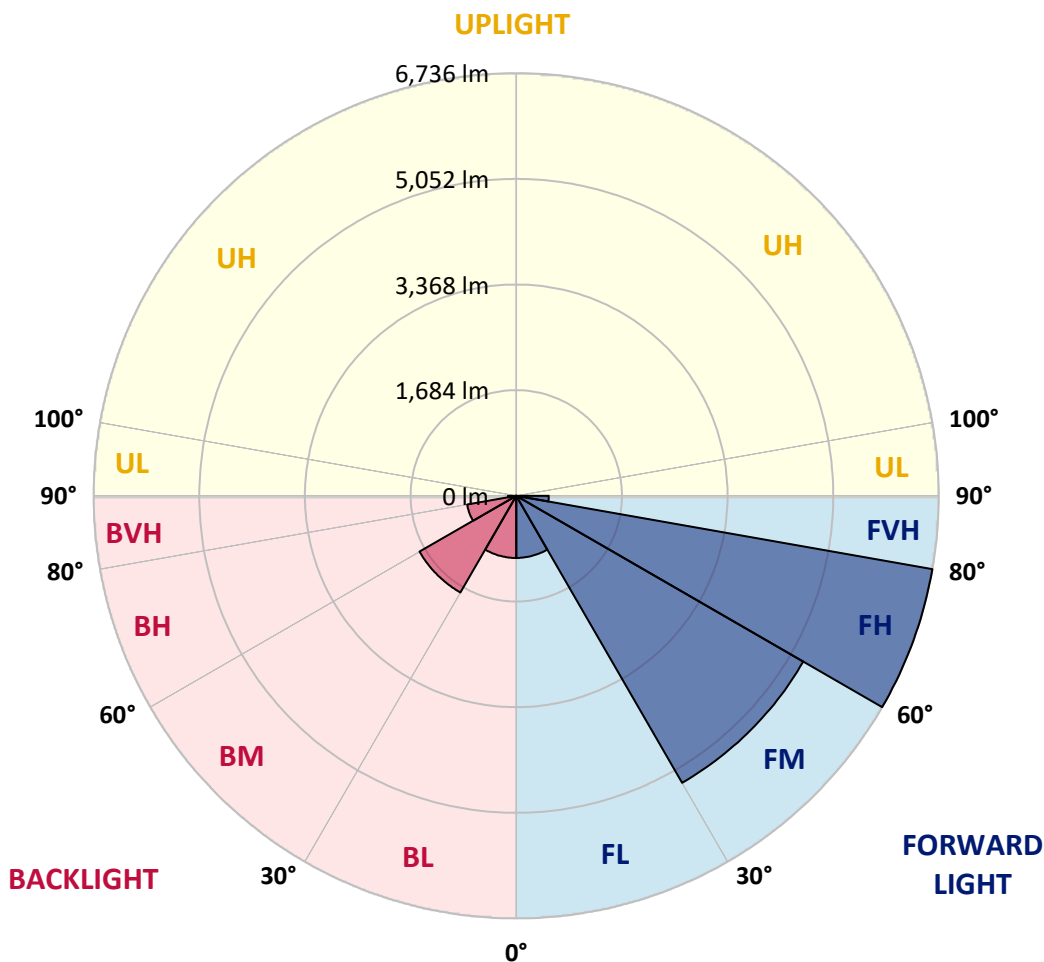


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.3	5.7			
FM (30°-60°)	5282.5	30.7			
FH (60°-80°)	6735.6	39.1			G3/7500
FVH (80°-90°)	518.9	3.0			G4/750
BL (0°-30°)	990.7	5.8	B2/1000		
BM (30°-60°)	1780.1	10.3	B2/2500		
BH (60°-80°)	795.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	132.7	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4
2.5°	2500.2	2490.7	2508.5	2510.9	2526.4	2532.3	2553.7	2587.0	2614.4	2646.0	2674.5
5°	2273.5	2266.9	2291.9	2309.8	2343.7	2358.0	2408.6	2479.4	2542.4	2613.8	2678.7
7.5°	2058.1	2054.5	2082.5	2123.0	2162.2	2181.9	2269.3	2372.3	2477.6	2593.0	2692.4
10°	1876.6	1875.4	1902.2	1942.1	1999.8	2021.8	2134.9	2270.5	2418.1	2576.9	2715.6
12.5°	1774.9	1779.0	1791.5	1824.9	1878.4	1900.4	2026.0	2185.4	2368.1	2571.6	2749.5
15°	1799.9	1806.4	1785.0	1783.8	1821.9	1839.1	1956.9	2124.7	2332.4	2580.5	2798.9
17.5°	1906.4	1907.6	1851.0	1815.3	1838.5	1847.5	1935.5	2090.2	2311.6	2600.7	2860.7
20°	2056.3	2053.3	1953.4	1893.9	1906.4	1908.8	1965.9	2090.8	2309.8	2635.8	2941.1
22.5°	2255.0	2233.0	2098.6	2017.6	2014.7	2011.1	2043.8	2134.9	2336.0	2693.0	3036.9
25°	2514.5	2493.6	2308.6	2197.9	2174.1	2165.2	2170.0	2228.9	2387.7	2754.2	3144.0
27.5°	2803.0	2766.7	2588.2	2431.8	2382.4	2369.9	2341.3	2361.5	2444.3	2813.1	3271.3
30°	3044.6	3025.0	2869.1	2683.4	2625.1	2607.3	2532.3	2510.3	2525.8	2893.5	3431.9
32.5°	3179.7	3166.6	3072.0	2922.0	2867.9	2842.9	2737.0	2693.0	2656.7	3020.2	3649.7
35°	3343.3	3335.0	3277.8	3169.0	3088.6	3062.5	2980.3	2934.5	2841.1	3194.5	3931.1
37.5°	3551.5	3542.6	3543.8	3455.7	3360.0	3335.6	3281.4	3233.2	3080.3	3423.6	4237.0
40°	3787.2	3769.9	3763.4	3759.2	3698.5	3684.8	3656.3	3590.8	3380.2	3697.3	4538.6
42.5°	4141.8	4080.5	3949.6	3999.0	4059.1	4051.9	4075.1	3981.1	3713.4	4021.0	4833.2
45°	4483.9	4383.3	4157.2	4168.0	4299.5	4339.3	4513.1	4446.4	4074.5	4375.6	5137.8
47.5°	4639.8	4563.6	4371.4	4372.0	4502.3	4585.1	4965.8	4918.3	4454.2	4778.4	5509.7
50°	4814.1	4738.0	4565.4	4630.3	4743.9	4832.0	5403.2	5378.8	4815.3	5219.3	5955.3
52.5°	5004.5	4875.4	4765.9	4882.0	5041.4	5143.8	5841.1	5774.5	5146.7	5663.2	6467.6
55°	5006.9	4971.8	5055.1	5140.2	5378.8	5504.3	6299.8	6123.7	5416.9	6099.3	6884.7
57.5°	5291.9	5234.8	5411.5	5450.8	5762.6	5904.2	6756.2	6427.8	5691.7	6433.7	7109.6
60°	5669.1	5620.3	5764.9	5868.5	6237.4	6426.6	7243.5	6740.1	5907.7	6686.0	7098.9
62.5°	6320.7	6265.3	6263.5	6408.7	6905.5	7125.7	7790.3	7046.6	5993.4	6736.0	6796.1
65°	7274.4	7186.4	7020.4	7089.4	7828.4	8047.9	8401.4	7268.5	5880.4	6468.2	6016.0
67.5°	8202.6	8199.7	7995.6	8137.2	9046.9	9223.1	9097.5	7290.5	5527.5	5535.9	4632.1
70°	9127.9	9139.8	9105.2	9597.9	10693.3	10876.6	9838.9	6994.8	4734.4	3997.8	2775.1
72.5°	9860.9	9857.9	10031.7	11302.0	12829.9	12788.9	10463.6	6098.7	3399.2	2158.1	1326.2
75°	9386.1	9282.6	9800.2	12145.7	14075.3	13874.7	9932.3	4254.2	1764.2	982.3	714.0
77.5°	6121.9	6220.1	6979.9	10033.4	12311.7	12067.7	7286.9	1984.9	831.2	644.4	517.6
80°	2217.0	2320.5	3268.3	5683.4	8482.3	8442.4	3588.4	815.7	562.3	486.7	377.2
82.5°	762.8	800.9	1289.4	2524.0	4789.1	4967.6	1350.0	463.5	408.8	345.1	258.2
85°	299.3	342.7	589.6	1214.4	2415.7	2433.5	546.8	277.3	284.4	226.1	141.6
87.5°	113.6	138.0	282.0	564.1	1103.1	1013.3	195.8	132.1	161.8	134.5	67.2
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°	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4
2.5°	2696.5	2709.0	2735.2	2753.1	2772.1	2777.4	2779.8	2784.6	2789.3	2787.6	2788.2
5°	2713.2	2737.6	2779.8	2797.7	2806.0	2796.5	2778.0	2763.2	2752.5	2746.5	2744.7
7.5°	2740.6	2775.1	2820.3	2817.3	2798.3	2756.0	2708.4	2672.7	2643.0	2632.3	2626.3
10°	2776.9	2817.3	2848.8	2814.9	2759.6	2686.4	2615.0	2559.7	2515.1	2497.8	2494.8
12.5°	2823.3	2864.3	2870.3	2798.3	2706.6	2606.7	2509.7	2436.5	2369.9	2348.5	2343.7
15°	2883.4	2922.0	2885.1	2769.1	2641.2	2506.7	2381.2	2281.8	2211.6	2185.4	2175.9
17.5°	2946.4	2983.3	2888.1	2720.9	2555.5	2388.3	2230.6	2128.9	2048.6	2018.2	2014.7
20°	3022.0	3038.7	2875.6	2651.9	2437.7	2234.8	2068.8	1973.0	1930.2	1908.8	1906.4
22.5°	3115.4	3097.6	2847.1	2558.5	2288.4	2057.5	1922.4	1877.8	1867.1	1862.3	1864.1
25°	3214.2	3159.4	2804.8	2436.5	2099.7	1880.2	1815.3	1827.8	1842.1	1840.3	1840.3
27.5°	3323.1	3222.5	2740.0	2274.7	1890.9	1735.0	1742.7	1788.6	1810.0	1809.4	1808.8
30°	3462.9	3293.9	2657.3	2080.1	1695.7	1632.7	1679.7	1735.6	1764.8	1763.6	1764.2
32.5°	3634.8	3372.4	2544.8	1862.9	1554.7	1557.1	1611.3	1666.6	1700.5	1697.5	1698.1
35°	3835.9	3460.5	2392.5	1648.7	1461.3	1497.0	1539.9	1578.5	1610.7	1606.5	1602.3
37.5°	4054.9	3546.8	2190.2	1457.1	1385.2	1441.1	1476.8	1483.3	1498.2	1487.5	1479.8
40°	4263.2	3612.8	1929.6	1300.1	1308.4	1393.5	1416.7	1390.5	1363.7	1360.2	1349.5
42.5°	4444.6	3634.8	1666.0	1174.5	1227.5	1343.5	1357.8	1303.0	1254.8	1232.2	1222.7
45°	4636.2	3642.6	1420.3	1069.2	1149.5	1298.9	1314.3	1241.2	1173.3	1124.5	1108.5
47.5°	4886.7	3698.5	1229.3	991.3	1090.0	1269.1	1291.1	1191.8	1103.7	1034.1	1019.2
50°	5214.6	3809.2	1074.0	931.8	1051.4	1249.5	1274.5	1143.6	1046.6	962.7	947.8
52.5°	5578.7	3910.9	948.4	883.6	1013.9	1215.0	1253.1	1109.1	993.1	896.7	880.6
55°	5833.4	3833.0	847.3	833.6	965.1	1165.6	1223.3	1079.9	916.3	832.4	818.1
57.5°	5882.1	3566.4	770.5	781.8	906.2	1103.7	1177.5	1015.1	874.6	804.4	789.6
60°	5748.9	3195.1	713.4	734.2	843.1	1025.8	1091.8	969.3	834.8	774.7	762.2
62.5°	5413.9	2814.9	671.2	691.4	784.2	946.6	1038.3	921.1	794.3	740.8	728.3
65°	4737.4	2363.3	630.7	653.3	729.5	878.2	990.1	876.4	754.5	713.4	701.5
67.5°	3575.9	1770.1	592.6	612.8	680.7	818.7	937.7	832.4	715.8	689.6	675.3
70°	2105.7	1108.5	549.2	570.6	629.5	756.8	881.8	784.2	667.6	655.7	637.2
72.5°	980.0	667.0	499.8	520.6	565.2	674.1	809.8	721.1	610.5	584.3	559.3
75°	584.9	487.9	441.5	459.9	491.5	586.1	719.4	656.9	556.3	521.8	495.6
77.5°	437.3	373.1	377.2	396.9	422.4	512.9	637.2	606.3	514.7	487.9	470.0
80°	314.8	283.2	307.6	329.0	355.8	466.5	610.5	560.5	465.3	429.6	412.9
82.5°	210.0	203.5	231.5	253.5	279.6	408.2	573.6	490.9	397.5	352.2	315.3
85°	116.0	122.6	155.9	165.4	188.0	287.4	470.0	394.5	299.3	241.0	230.3
87.5°	48.2	56.5	83.9	80.9	100.0	171.4	309.4	238.0	190.4	142.2	110.7
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)