

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: P318838

Luminaire Tested: **GLEON-SA4B-827-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318838  
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-SA4B-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 800mA 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: 17047 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

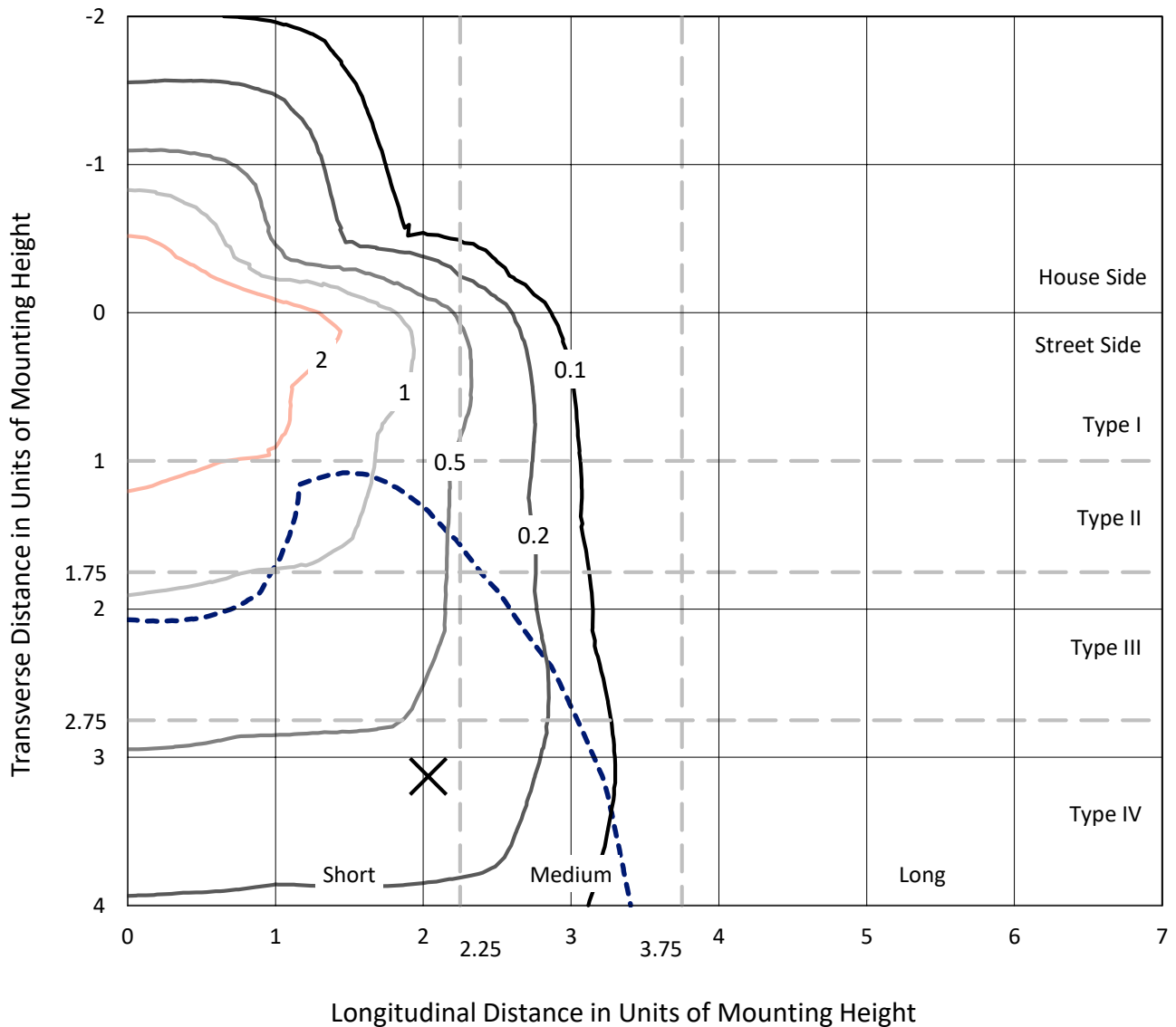
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

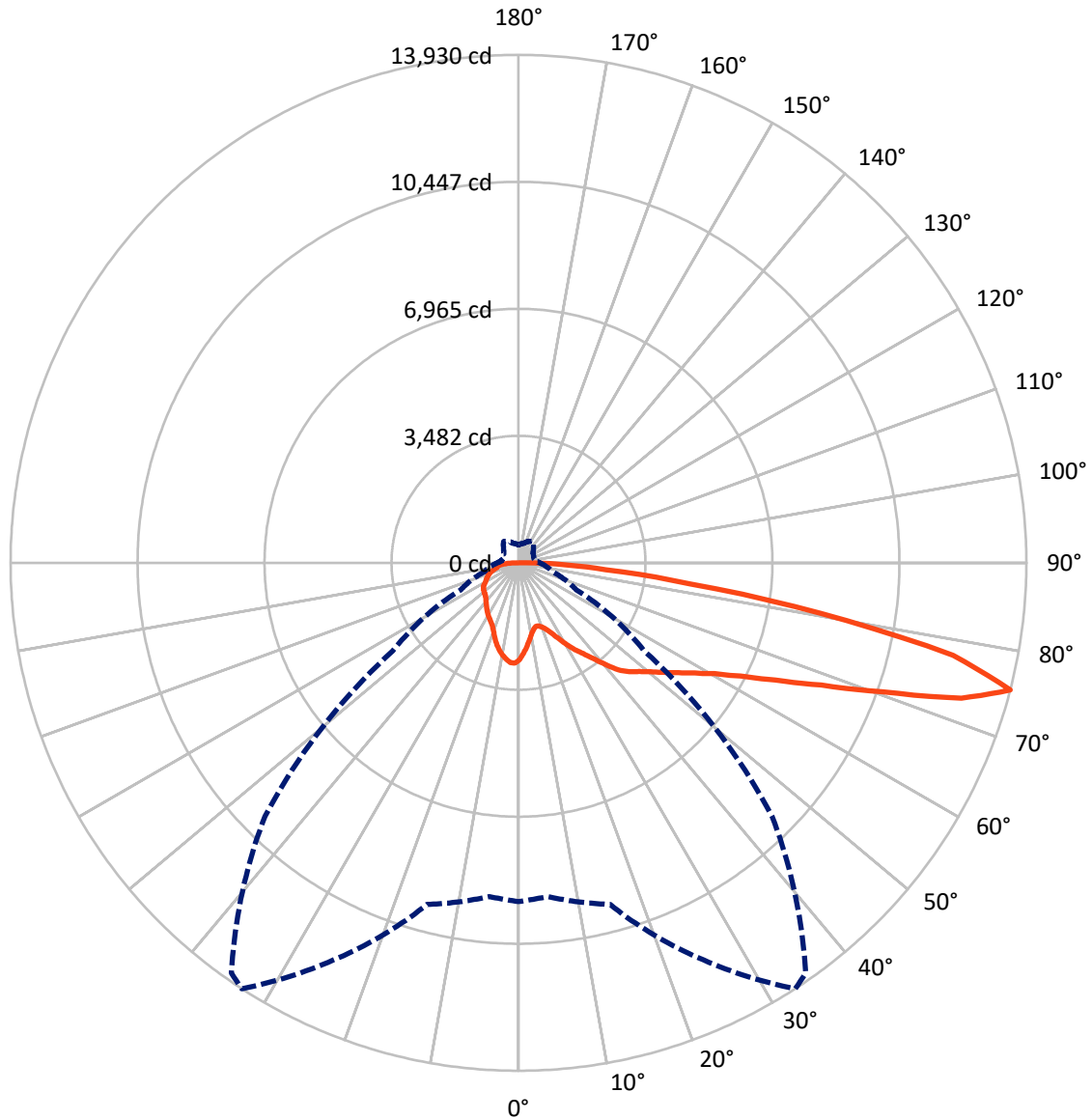
✕ Max cd  
 - - - 1/2 Max cd



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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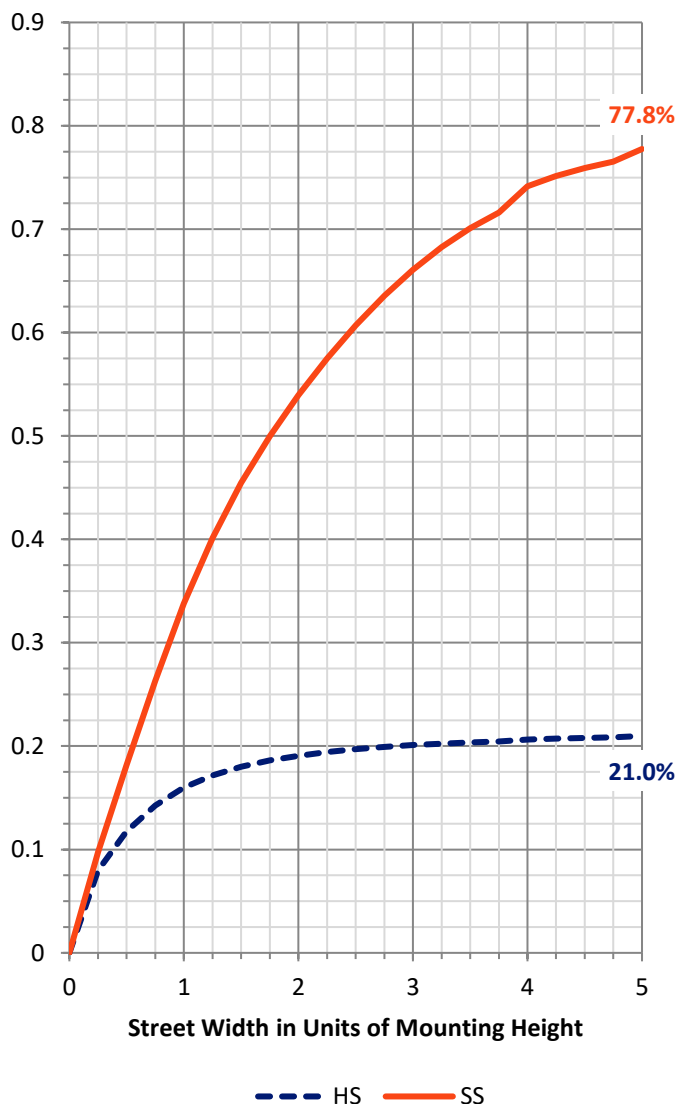
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3660.4	0.0	3660.4
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	13386.6	0.0	13386.6
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	17047.0	0.0	17047.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.0	1.4
10°-20°	652.7	3.8
20°-30°	1065.9	6.3
30°-40°	1587.4	9.3
40°-50°	2276.7	13.4
50°-60°	3125.6	18.3
60°-70°	3913.1	23.0
70°-80°	3540.0	20.8
80°-90°	644.8	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°	17047.0	100.0
0°-180°	17047.0	100.0

**Coefficient of Utilization**



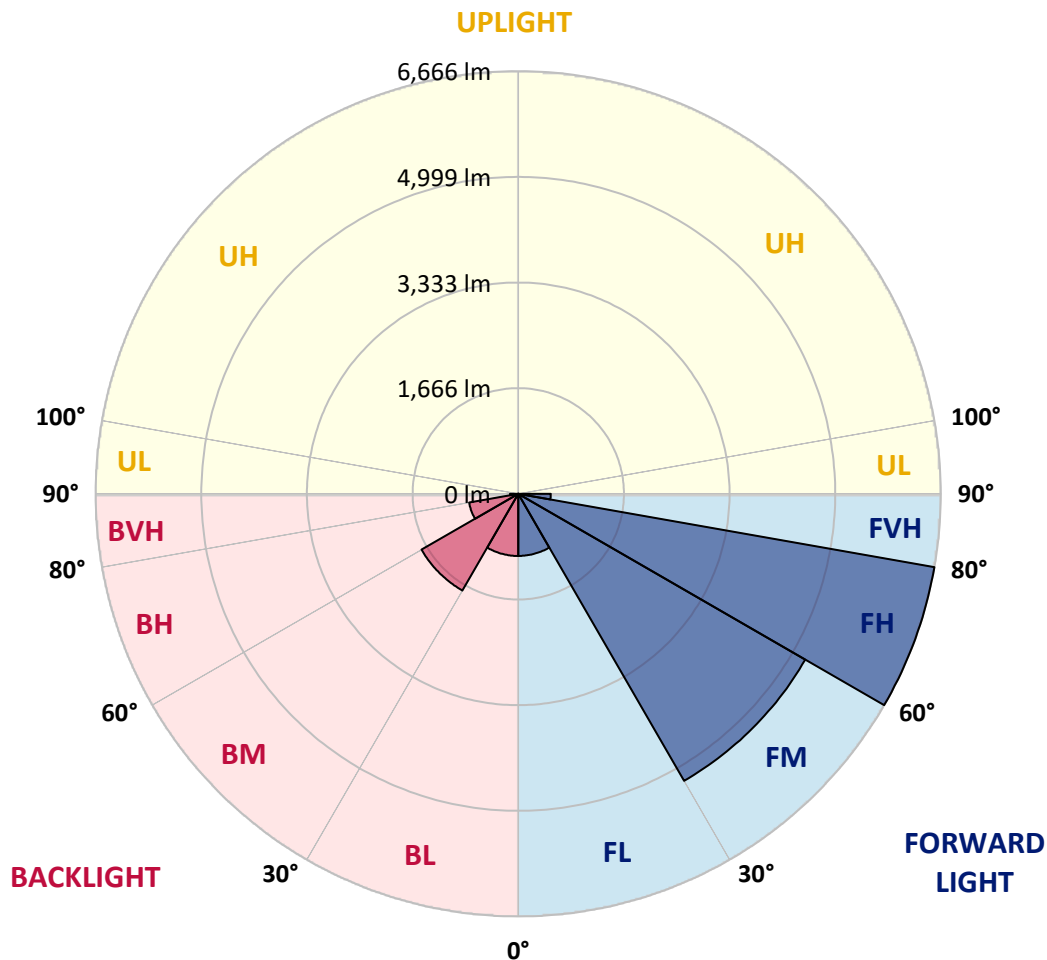
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	979.1	5.7			
FM (30°-60°)	5228.0	30.7			
FH (60°-80°)	6666.0	39.1			G3/7500
FVH (80°-90°)	513.5	3.0			G4/750
BL (0°-30°)	980.4	5.8	B2/1000		
BM (30°-60°)	1761.7	10.3	B2/2500		
BH (60°-80°)	787.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	131.3	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°	2664.5	2664.5	2664.5	2664.5	2664.5	2664.5	2664.5	2664.5	2664.5	2664.5	2664.5
2.5°	2474.3	2464.9	2482.6	2484.9	2500.3	2506.1	2527.3	2560.3	2587.4	2618.6	2646.9
5°	2250.0	2243.5	2268.2	2285.9	2319.5	2333.6	2383.7	2453.7	2516.2	2586.8	2651.0
7.5°	2036.8	2033.3	2061.0	2101.0	2139.9	2159.3	2245.9	2347.7	2452.0	2566.2	2664.5
10°	1857.2	1856.1	1882.6	1922.0	1979.1	2000.9	2112.8	2247.0	2393.1	2550.3	2687.5
12.5°	1756.5	1760.7	1773.0	1806.0	1859.0	1880.8	2005.0	2162.8	2343.6	2545.0	2721.1
15°	1781.3	1787.7	1766.5	1765.4	1803.1	1820.1	1936.7	2102.8	2308.3	2553.8	2769.9
17.5°	1886.7	1887.8	1831.9	1796.6	1819.5	1828.4	1915.5	2068.6	2287.7	2573.9	2831.2
20°	2035.1	2032.1	1933.2	1874.3	1886.7	1889.0	1945.6	2069.2	2285.9	2608.6	2910.7
22.5°	2231.7	2210.0	2076.9	1996.8	1993.8	1990.3	2022.7	2112.8	2311.8	2665.1	3005.5
25°	2488.5	2467.9	2284.7	2175.2	2151.7	2142.8	2147.5	2205.8	2363.1	2725.8	3111.5
27.5°	2774.1	2738.1	2561.5	2406.6	2357.8	2345.4	2317.1	2337.1	2419.0	2784.1	3237.5
30°	3013.1	2993.7	2839.4	2655.7	2598.0	2580.3	2506.1	2484.4	2499.7	2863.6	3396.5
32.5°	3146.8	3133.9	3040.2	2891.8	2838.3	2813.5	2708.7	2665.1	2629.2	2989.0	3612.0
35°	3308.7	3300.5	3244.0	3136.2	3056.7	3030.8	2949.5	2904.2	2811.8	3161.5	3890.5
37.5°	3514.8	3506.0	3507.2	3420.0	3325.2	3301.1	3247.5	3199.8	3048.5	3388.2	4193.2
40°	3748.0	3730.9	3724.5	3720.3	3660.3	3646.7	3618.5	3553.7	3345.3	3659.1	4491.7
42.5°	4099.0	4038.3	3908.8	3957.7	4017.1	4010.1	4033.0	3940.0	3675.0	3979.4	4783.2
45°	4437.6	4338.1	4114.3	4124.9	4255.0	4294.5	4466.4	4400.5	4032.4	4330.4	5084.7
47.5°	4591.8	4516.5	4326.3	4326.9	4455.8	4537.7	4914.5	4867.4	4408.1	4729.0	5452.7
50°	4764.4	4689.0	4518.2	4582.4	4694.9	4782.0	5347.3	5323.2	4765.6	5165.4	5893.8
52.5°	4952.8	4825.0	4716.7	4831.5	4989.3	5090.6	5780.7	5714.8	5093.5	5604.7	6400.8
55°	4955.2	4920.4	5002.9	5087.1	5323.2	5447.4	6234.7	6060.4	5360.9	6036.3	6813.6
57.5°	5237.2	5180.7	5355.6	5394.4	5703.0	5843.1	6686.4	6361.3	5632.9	6367.2	7036.2
60°	5610.6	5562.3	5705.4	5807.8	6172.9	6360.2	7168.6	6670.5	5846.7	6616.9	7025.6
62.5°	6255.3	6200.6	6198.8	6342.5	6834.2	7052.1	7709.8	6973.7	5931.5	6666.4	6725.8
65°	7199.3	7112.1	6947.8	7016.1	7747.5	7964.8	8314.5	7193.4	5819.6	6401.4	5953.9
67.5°	8117.9	8114.9	7913.0	8053.1	8953.4	9127.7	9003.5	7215.2	5470.4	5478.7	4584.2
70°	9033.5	9045.3	9011.2	9498.7	10582.8	10764.2	9737.2	6922.5	4685.5	3956.5	2746.4
72.5°	9759.0	9756.1	9928.0	11185.2	12697.4	12656.7	10355.5	6035.7	3364.1	2135.8	1312.5
75°	9289.1	9186.6	9698.9	12020.2	13929.8	13731.4	9829.7	4210.3	1745.9	972.2	706.6
77.5°	6058.7	6155.8	6907.8	9929.8	12184.5	11943.0	7211.6	1964.4	822.6	637.7	512.3
80°	2194.1	2296.5	3234.5	5624.7	8394.6	8355.2	3551.3	807.3	556.5	481.7	373.3
82.5°	754.9	792.6	1276.0	2497.9	4739.6	4916.3	1336.1	458.7	404.5	341.5	255.6
85°	296.2	339.2	583.5	1201.8	2390.7	2408.4	541.2	274.4	281.5	223.8	140.1
87.5°	112.5	136.6	279.1	558.2	1091.7	1002.8	193.7	130.7	160.2	133.1	66.5
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°	2664.5	2664.5	2664.5	2664.5	2664.5	2664.5	2664.5	2664.5	2664.5	2664.5	2664.5
2.5°	2668.7	2681.0	2706.9	2724.6	2743.4	2748.7	2751.1	2755.8	2760.5	2758.8	2759.3
5°	2685.2	2709.3	2751.1	2768.8	2777.0	2767.6	2749.3	2734.6	2724.0	2718.1	2716.4
7.5°	2712.2	2746.4	2791.1	2788.2	2769.4	2727.5	2680.4	2645.1	2615.7	2605.1	2599.2
10°	2748.2	2788.2	2819.4	2785.8	2731.1	2658.7	2588.0	2533.2	2489.1	2472.0	2469.0
12.5°	2794.1	2834.7	2840.6	2769.4	2678.7	2579.7	2483.8	2411.3	2345.4	2324.2	2319.5
15°	2853.6	2891.8	2855.3	2740.5	2613.9	2480.8	2356.6	2258.2	2188.8	2162.8	2153.4
17.5°	2916.0	2952.5	2858.3	2692.8	2529.1	2363.6	2207.6	2106.9	2027.4	1997.4	1993.8
20°	2990.8	3007.3	2845.9	2624.5	2412.5	2211.7	2047.4	1952.6	1910.2	1889.0	1886.7
22.5°	3083.2	3065.5	2817.6	2532.1	2264.7	2036.2	1902.6	1858.4	1847.8	1843.1	1844.9
25°	3181.0	3126.8	2775.8	2411.3	2078.0	1860.8	1796.6	1808.9	1823.1	1821.3	1821.3
27.5°	3288.7	3189.2	2711.6	2251.2	1871.4	1717.1	1724.7	1770.1	1791.3	1790.7	1790.1
30°	3427.1	3259.9	2629.8	2058.6	1678.2	1615.8	1662.3	1717.7	1746.5	1745.3	1745.9
32.5°	3597.3	3337.6	2518.5	1843.7	1538.7	1541.0	1594.6	1649.4	1682.9	1680.0	1680.6
35°	3796.3	3424.7	2367.8	1631.7	1446.2	1481.5	1523.9	1562.2	1594.0	1589.9	1585.8
37.5°	4013.0	3510.1	2167.6	1442.1	1370.8	1426.2	1461.5	1468.0	1482.7	1472.1	1464.5
40°	4219.1	3575.5	1909.6	1286.6	1294.9	1379.1	1402.0	1376.1	1349.6	1346.1	1335.5
42.5°	4398.7	3597.3	1648.8	1162.4	1214.8	1329.6	1343.8	1289.6	1241.9	1219.5	1210.1
45°	4588.3	3604.9	1405.6	1058.2	1137.7	1285.5	1300.8	1228.3	1161.2	1112.9	1097.0
47.5°	4836.2	3660.3	1216.6	981.0	1078.8	1256.0	1277.8	1179.5	1092.3	1023.4	1008.7
50°	5160.7	3769.8	1062.9	922.1	1040.5	1236.6	1261.3	1131.8	1035.8	952.8	938.0
52.5°	5521.0	3870.5	938.6	874.4	1003.4	1202.4	1240.1	1097.6	982.8	887.4	871.5
55°	5773.1	3793.4	838.5	825.0	955.1	1153.6	1210.7	1068.8	906.8	823.8	809.7
57.5°	5821.4	3529.6	762.6	773.7	896.8	1092.3	1165.3	1004.6	865.6	796.1	781.4
60°	5689.5	3162.1	706.0	726.6	834.4	1015.2	1080.5	959.2	826.2	766.7	754.3
62.5°	5357.9	2785.8	664.2	684.2	776.1	936.9	1027.5	911.5	786.1	733.1	720.8
65°	4688.4	2338.9	624.2	646.6	721.9	869.1	979.8	867.4	746.7	706.0	694.3
67.5°	3539.0	1751.8	586.5	606.5	673.6	810.3	928.0	823.8	708.4	682.5	668.3
70°	2083.9	1097.0	543.5	564.7	623.0	749.0	872.7	776.1	660.7	648.9	630.7
72.5°	969.8	660.1	494.6	515.2	559.4	667.2	801.4	713.7	604.2	578.2	553.5
75°	578.8	482.9	436.9	455.2	486.4	580.0	711.9	650.1	550.6	516.4	490.5
77.5°	432.8	369.2	373.3	392.8	418.1	507.6	630.7	600.0	509.4	482.9	465.2
80°	311.5	280.3	304.4	325.6	352.1	461.7	604.2	554.7	460.5	425.1	408.7
82.5°	207.9	201.4	229.1	250.8	276.8	404.0	567.7	485.8	393.4	348.6	312.1
85°	114.8	121.3	154.3	163.7	186.1	284.4	465.2	390.4	296.2	238.5	227.9
87.5°	47.7	55.9	83.0	80.1	98.9	169.6	306.2	235.5	188.4	140.7	109.5
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)