

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: P317877

Luminaire Tested: **GLEON-SA3B-827-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3B-827-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13113 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

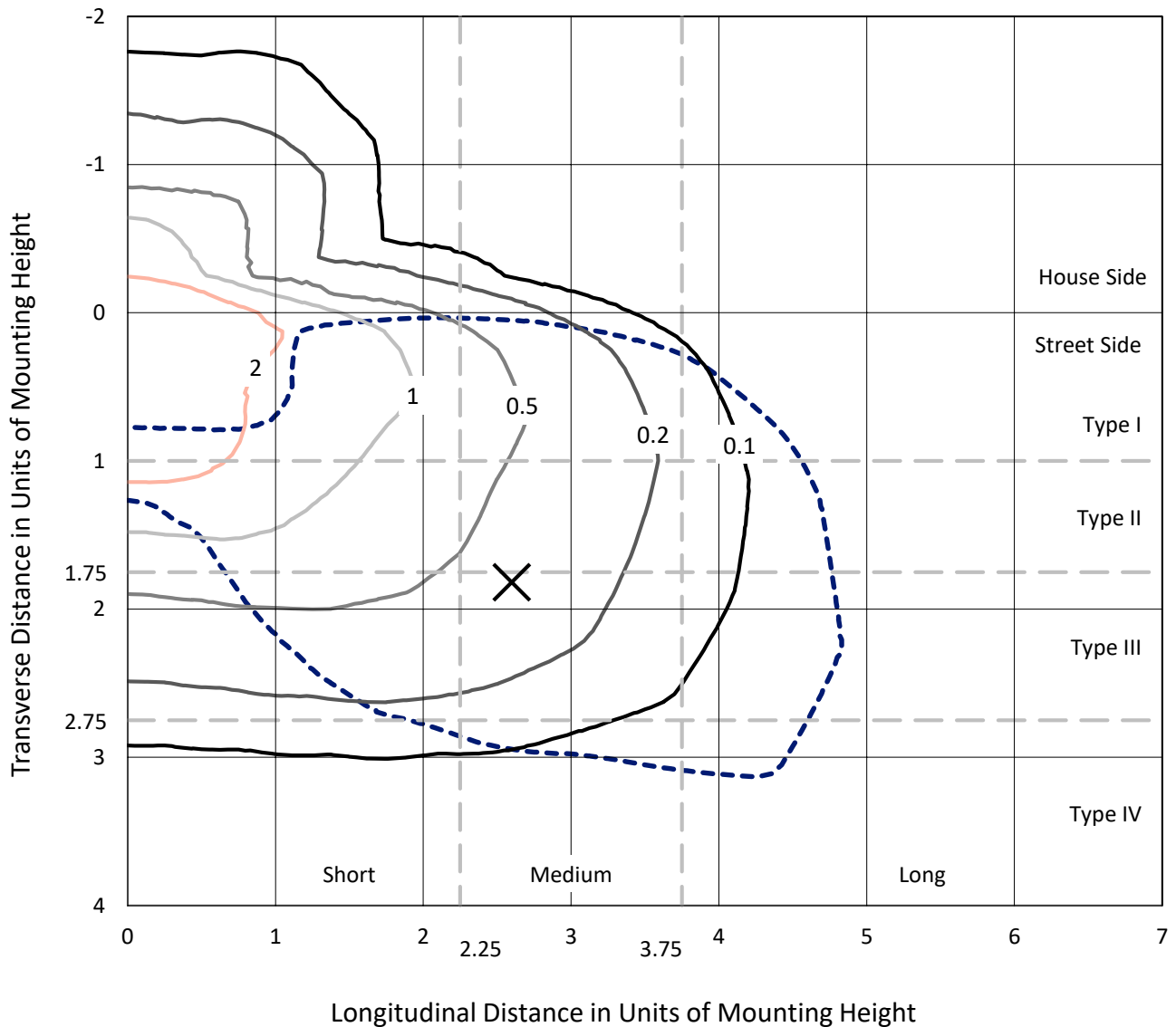
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

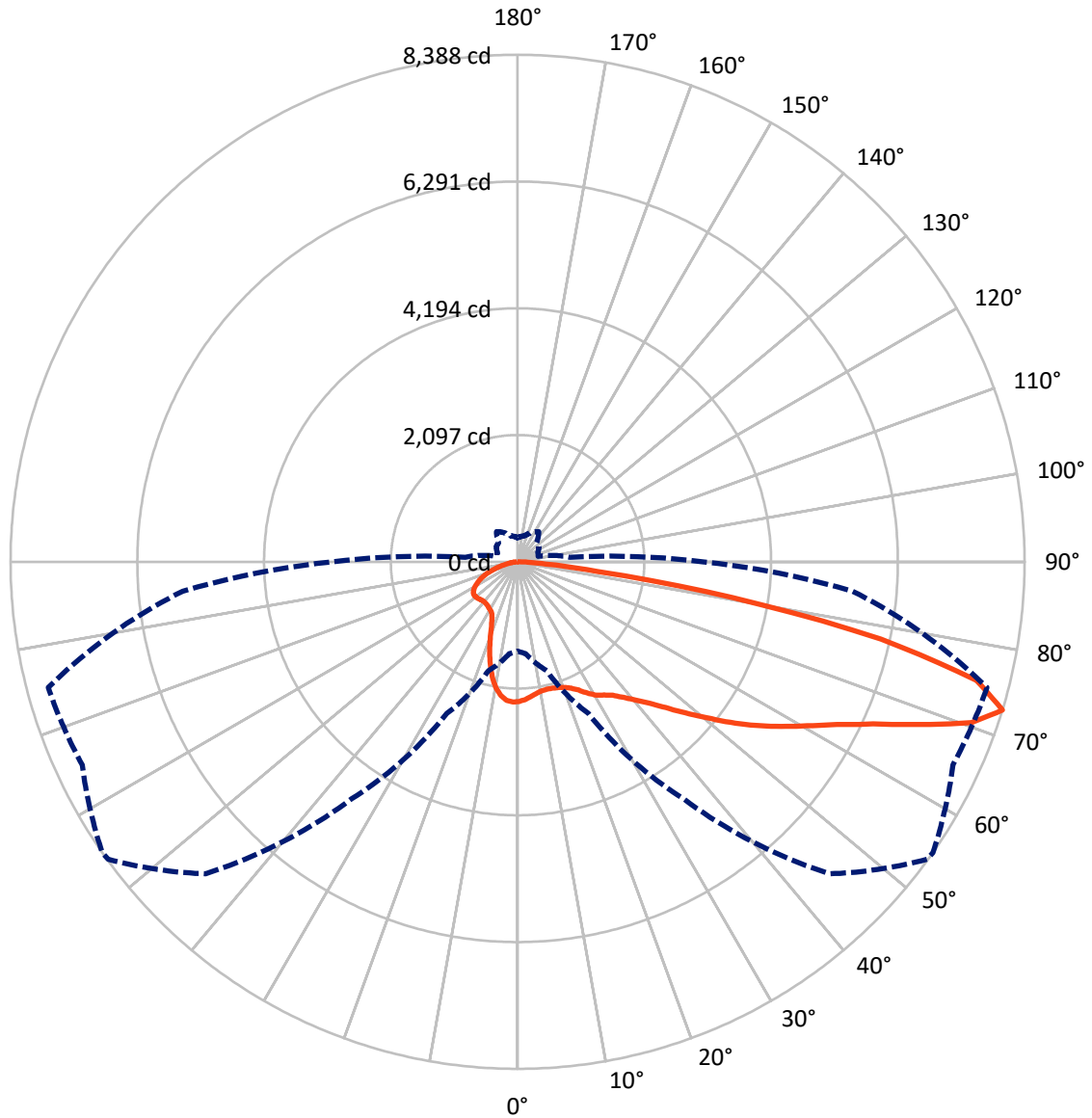
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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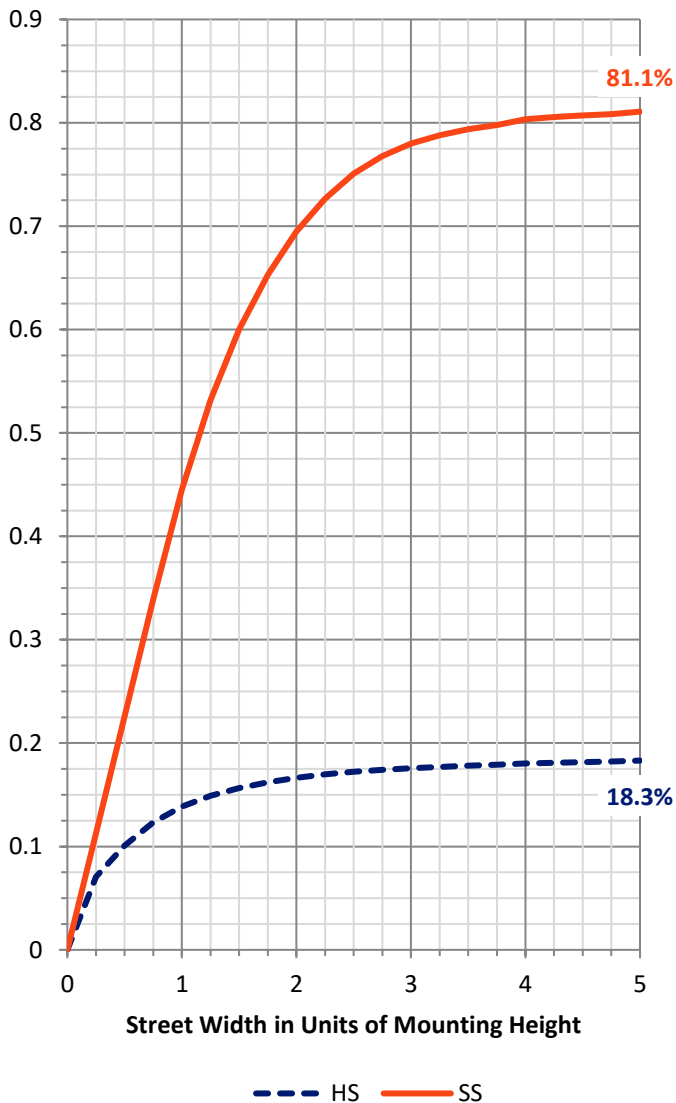
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2437.3	0.0	2437.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	10675.7	0.0	10675.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	13113.0	0.0	13113.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.3	1.6
10°-20°	557.2	4.2
20°-30°	918.7	7.0
30°-40°	1359.0	10.4
40°-50°	1896.8	14.5
50°-60°	2469.7	18.8
60°-70°	3035.2	23.1
70°-80°	2379.2	18.1
80°-90°	287.9	2.2
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°	13113.0	100.0
0°-180°	13113.0	100.0

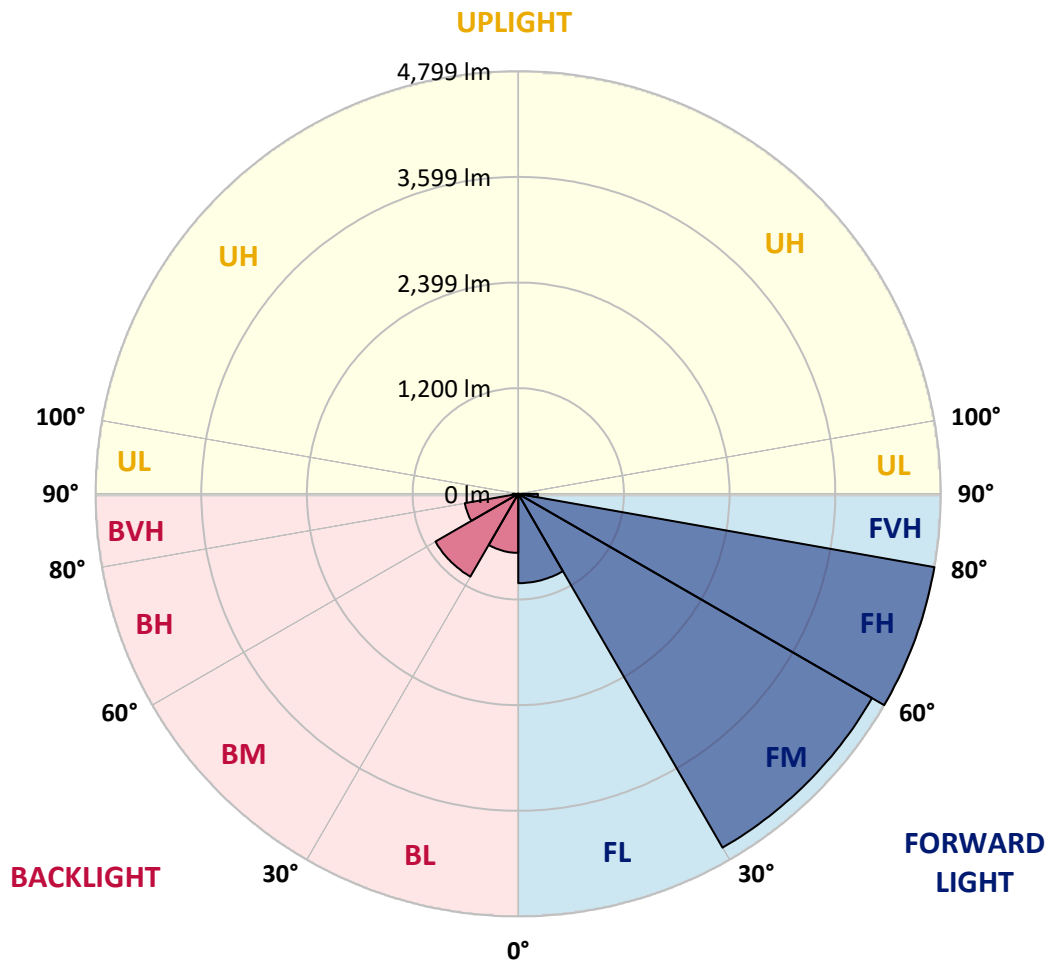


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1014.6	7.7			
FM (30°-60°)	4639.6	35.4			
FH (60°-80°)	4798.9	36.6			G2/5000
FVH (80°-90°)	222.6	1.7			G2/225
BL (0°-30°)	670.6	5.1	B2/1000		
BM (30°-60°)	1085.8	8.3	B2/2500		
BH (60°-80°)	615.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	65.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9
2.5°	2237.6	2232.2	2238.9	2248.2	2258.4	2272.1	2280.1	2283.6	2297.3	2302.7	2314.2
5°	2133.9	2131.3	2142.3	2158.3	2180.9	2212.8	2238.4	2243.3	2279.6	2305.3	2328.8
7.5°	2058.6	2058.6	2071.5	2090.5	2115.8	2158.7	2195.0	2201.7	2263.2	2318.6	2362.0
10°	1998.8	2001.0	2016.1	2038.7	2068.4	2114.0	2162.3	2169.8	2258.8	2349.6	2418.7
12.5°	1959.0	1964.3	1978.0	1998.4	2035.1	2090.5	2151.6	2161.8	2268.1	2393.9	2486.9
15°	1984.2	1993.1	1994.4	2002.8	2023.2	2083.4	2157.8	2168.5	2288.0	2439.1	2564.4
17.5°	2094.9	2098.0	2084.3	2066.6	2056.9	2095.4	2176.4	2187.5	2312.0	2483.8	2638.8
20°	2263.2	2261.5	2231.8	2184.0	2134.4	2140.6	2207.0	2218.5	2344.3	2523.2	2713.2
22.5°	2475.8	2469.6	2424.0	2335.9	2251.3	2215.9	2260.6	2270.3	2393.0	2579.5	2793.0
25°	2733.6	2719.9	2659.6	2541.4	2416.9	2325.7	2341.2	2350.5	2463.9	2642.4	2866.0
27.5°	3005.6	2991.8	2915.2	2772.1	2606.5	2464.3	2452.4	2460.3	2544.5	2688.9	2920.1
30°	3289.9	3275.3	3205.3	3045.0	2807.6	2607.8	2556.0	2559.1	2601.2	2714.1	2964.4
32.5°	3575.6	3561.8	3483.4	3297.4	3025.9	2762.0	2630.9	2626.9	2635.3	2740.3	3014.4
35°	3865.2	3870.5	3778.9	3572.9	3267.8	2933.4	2719.4	2711.0	2692.4	2793.8	3085.3
37.5°	4175.3	4171.7	4053.0	3837.8	3520.7	3119.4	2846.6	2845.2	2781.0	2895.3	3196.4
40°	4382.5	4384.8	4312.6	4108.8	3776.2	3325.3	3009.5	3006.4	2922.3	3047.2	3342.2
42.5°	4463.6	4478.2	4496.8	4367.5	4043.7	3564.1	3204.0	3199.5	3119.4	3265.1	3513.6
45°	4469.4	4498.6	4613.7	4597.4	4314.8	3837.3	3452.4	3440.0	3382.5	3554.8	3718.2
47.5°	4419.8	4449.9	4641.2	4734.2	4557.1	4125.7	3743.0	3733.2	3683.6	3917.1	3939.6
50°	4311.2	4340.0	4584.5	4801.1	4756.4	4402.9	4077.8	4052.1	4025.6	4335.6	4193.0
52.5°	4107.9	4163.3	4508.8	4817.0	4875.5	4649.2	4429.9	4413.1	4427.7	4777.2	4446.8
55°	3626.5	3688.5	4313.5	4803.8	4963.6	4856.0	4782.0	4781.2	4856.9	5240.5	4719.2
57.5°	3356.8	3400.6	3915.7	4781.2	5068.2	5061.5	5130.6	5139.0	5286.5	5744.9	5004.4
60°	3204.4	3250.5	3714.2	4697.5	5230.3	5327.3	5486.3	5503.1	5723.2	6303.4	5347.6
62.5°	3065.8	3116.3	3589.3	4526.9	5421.2	5707.3	5912.3	5927.4	6185.6	6877.4	5679.4
65°	2828.8	2886.0	3406.4	4414.9	5594.8	6202.9	6454.0	6464.2	6716.7	7478.9	5933.2
67.5°	2494.0	2546.3	3061.4	4167.3	5723.2	6804.8	7174.2	7179.9	7243.3	7903.6	6062.9
70°	2102.9	2122.8	2569.7	3656.2	5571.3	7367.7	7963.4	7964.8	7723.4	8175.6	6041.7
72.5°	1477.5	1524.5	1865.5	2767.7	4787.8	7299.1	8373.1	8388.2	7946.6	8038.3	5558.9
75°	906.2	955.8	1170.2	1677.3	3037.4	5740.5	7736.2	7840.8	7528.1	7167.1	4541.1
77.5°	605.9	624.5	763.6	977.9	1376.1	3302.7	5947.8	6144.4	6253.8	5226.7	2904.1
80°	337.9	373.4	506.2	607.7	612.1	1312.3	3566.3	3612.3	3479.5	2081.2	896.0
82.5°	178.9	198.4	337.9	357.0	334.0	439.4	1329.2	1330.5	1111.7	558.1	266.2
85°	138.6	155.0	231.6	217.9	170.5	194.9	438.5	462.4	378.2	228.5	86.8
87.5°	69.1	85.9	157.2	138.2	66.9	55.8	156.8	167.4	149.3	89.5	31.4
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°	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9	2312.9
2.5°	2318.6	2322.6	2327.5	2322.2	2320.4	2313.3	2301.3	2298.7	2292.5	2292.9	2296.5
5°	2339.0	2345.6	2343.0	2322.6	2298.2	2264.1	2228.7	2198.6	2178.7	2177.3	2176.0
7.5°	2378.0	2382.4	2361.6	2303.6	2235.3	2156.5	2082.1	2017.0	1977.6	1967.8	1965.6
10°	2439.1	2438.2	2381.1	2264.1	2128.2	1987.3	1867.7	1777.4	1724.7	1709.2	1705.2
12.5°	2507.3	2497.1	2387.7	2192.4	1976.7	1781.4	1629.9	1529.4	1474.4	1456.7	1452.3
15°	2577.7	2552.5	2371.3	2085.2	1790.7	1559.5	1400.5	1307.5	1277.8	1268.0	1266.3
17.5°	2643.3	2594.5	2324.4	1939.9	1578.5	1338.5	1214.4	1177.2	1184.3	1197.2	1197.6
20°	2707.5	2622.9	2249.1	1756.6	1354.8	1156.4	1114.3	1141.8	1175.5	1201.6	1205.1
22.5°	2770.8	2642.8	2152.1	1544.9	1154.7	1054.1	1083.8	1133.8	1172.4	1200.7	1205.6
25°	2824.0	2647.7	2018.3	1319.0	1015.6	1015.6	1069.2	1116.6	1154.7	1182.6	1187.4
27.5°	2843.5	2614.9	1829.6	1109.9	945.6	997.9	1048.8	1088.2	1120.6	1150.2	1155.5
30°	2851.0	2554.2	1611.7	942.1	916.8	978.8	1021.3	1055.0	1085.6	1113.5	1118.3
32.5°	2852.3	2481.2	1380.5	846.8	896.9	958.9	987.2	1016.9	1049.7	1060.8	1062.5
35°	2860.7	2394.8	1136.9	798.1	878.3	940.3	962.9	984.1	931.0	935.0	938.5
37.5°	2885.1	2309.3	933.2	770.7	866.3	930.5	957.6	880.5	838.9	829.1	827.8
40°	2930.7	2218.1	782.2	748.5	861.9	935.4	923.5	822.0	750.3	696.7	688.7
42.5°	2994.0	2119.7	685.6	733.9	865.0	958.9	876.1	765.8	646.6	612.1	607.7
45°	3065.3	2016.5	633.4	723.7	875.6	977.0	866.3	690.9	598.4	572.2	570.0
47.5°	3134.4	1890.3	606.3	719.3	890.2	962.4	825.1	667.9	575.3	561.6	562.9
50°	3213.7	1776.5	589.9	714.4	903.1	953.1	778.6	655.9	566.5	583.3	601.0
52.5°	3280.6	1658.7	575.3	704.7	908.0	936.7	766.7	658.2	566.5	598.8	615.6
55°	3359.9	1569.7	558.5	684.3	898.7	890.2	758.3	671.4	573.1	552.7	554.5
57.5°	3462.2	1540.4	539.9	652.4	867.7	822.5	754.3	684.3	569.1	556.3	560.7
60°	3603.9	1571.4	532.4	610.8	819.4	769.3	754.7	677.6	541.2	519.1	519.5
62.5°	3739.0	1606.0	531.9	584.6	760.0	721.9	744.5	655.9	527.1	514.2	519.1
65°	3783.3	1571.0	510.7	555.4	693.1	665.2	725.9	632.9	516.4	496.9	496.1
67.5°	3723.9	1462.5	467.7	508.0	616.5	599.3	701.6	605.5	499.6	483.7	481.0
70°	3547.7	1220.2	414.6	445.6	529.3	524.8	663.0	573.6	477.0	463.3	451.8
72.5°	3073.3	869.4	349.5	370.7	430.9	445.1	609.9	531.9	445.1	415.4	397.7
75°	2524.1	643.5	287.0	291.4	327.3	365.8	536.8	483.2	407.5	357.0	343.3
77.5°	1545.7	393.7	228.5	230.3	234.7	291.9	442.0	428.7	359.6	297.6	287.9
80°	500.5	214.8	165.2	173.6	160.3	213.9	341.9	365.0	308.7	248.9	238.3
82.5°	190.4	125.3	111.6	117.4	111.2	143.5	249.4	292.3	252.9	204.6	166.5
85°	92.1	70.9	66.0	74.0	68.7	73.5	159.4	215.3	191.8	133.3	124.0
87.5°	32.8	31.4	25.2	34.1	29.2	26.1	48.7	108.5	126.7	91.7	81.9
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)