

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: P382901

Luminaire Tested: **GLEON-SA2C-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382901  
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-SA2C-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13785 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

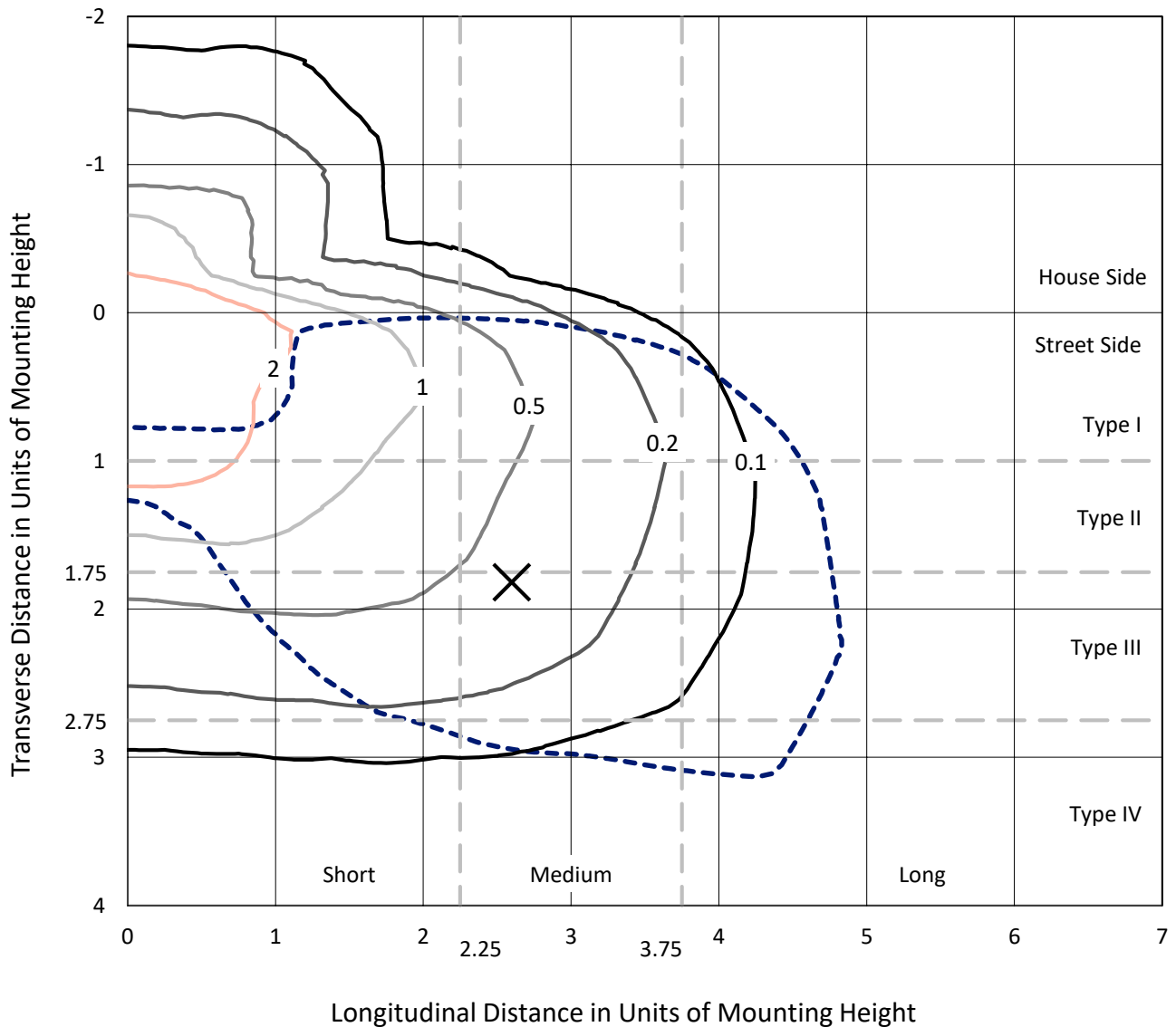
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

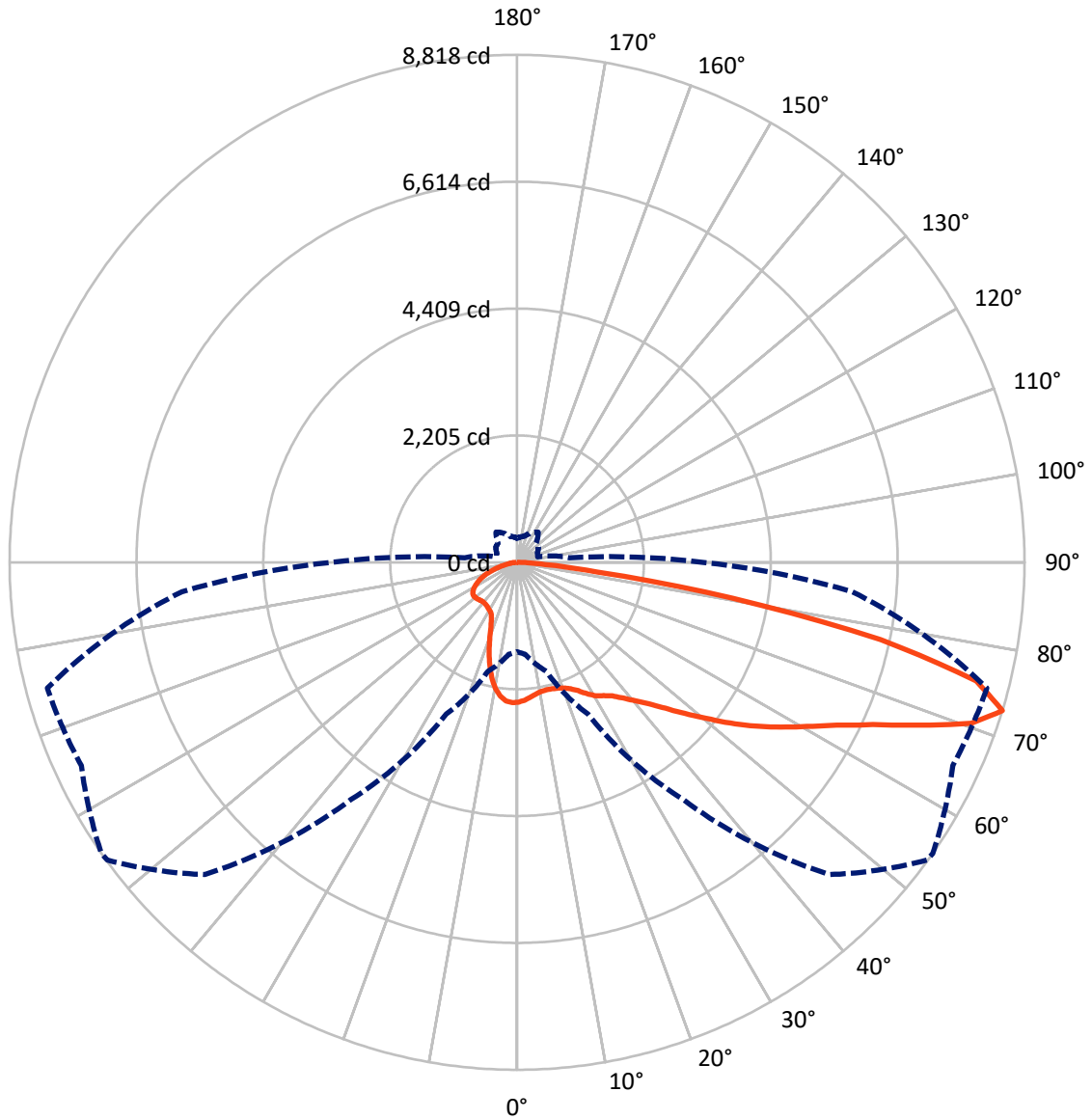
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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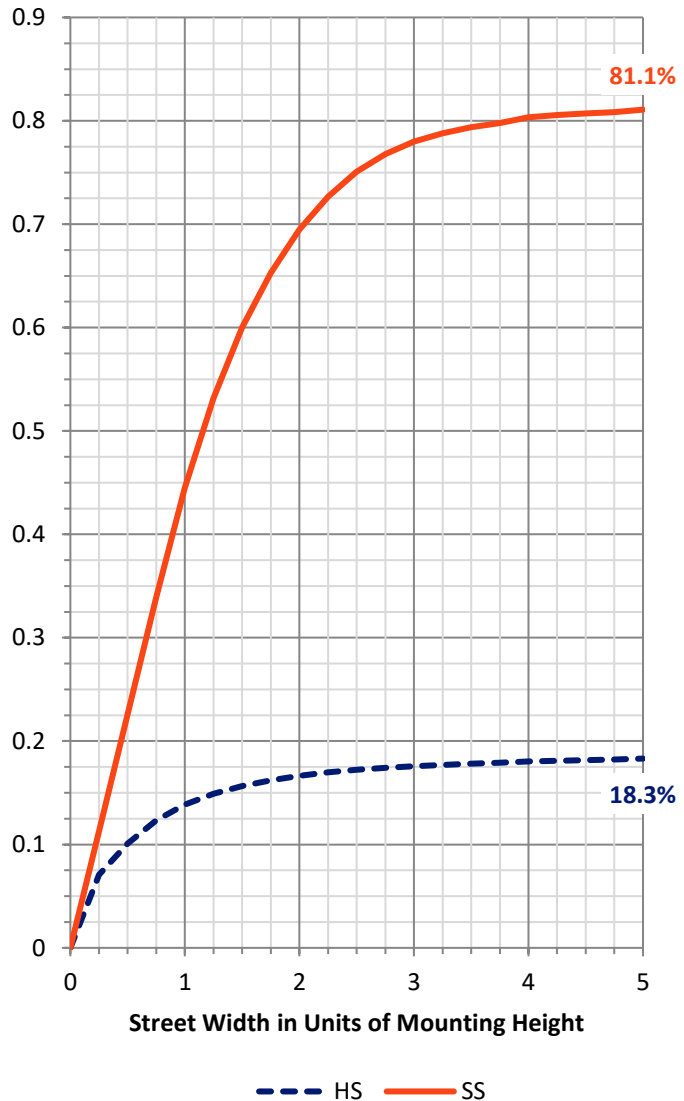
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2562.2	0.0	2562.2
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	11222.9	0.0	11222.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	13785.0	0.0	13785.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.0	1.6
10°-20°	585.8	4.2
20°-30°	965.8	7.0
30°-40°	1428.6	10.4
40°-50°	1994.0	14.5
50°-60°	2596.3	18.8
60°-70°	3190.8	23.1
70°-80°	2501.2	18.1
80°-90°	302.7	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°	13785.0	100.0
0°-180°	13785.0	100.0

**Coefficient of Utilization**

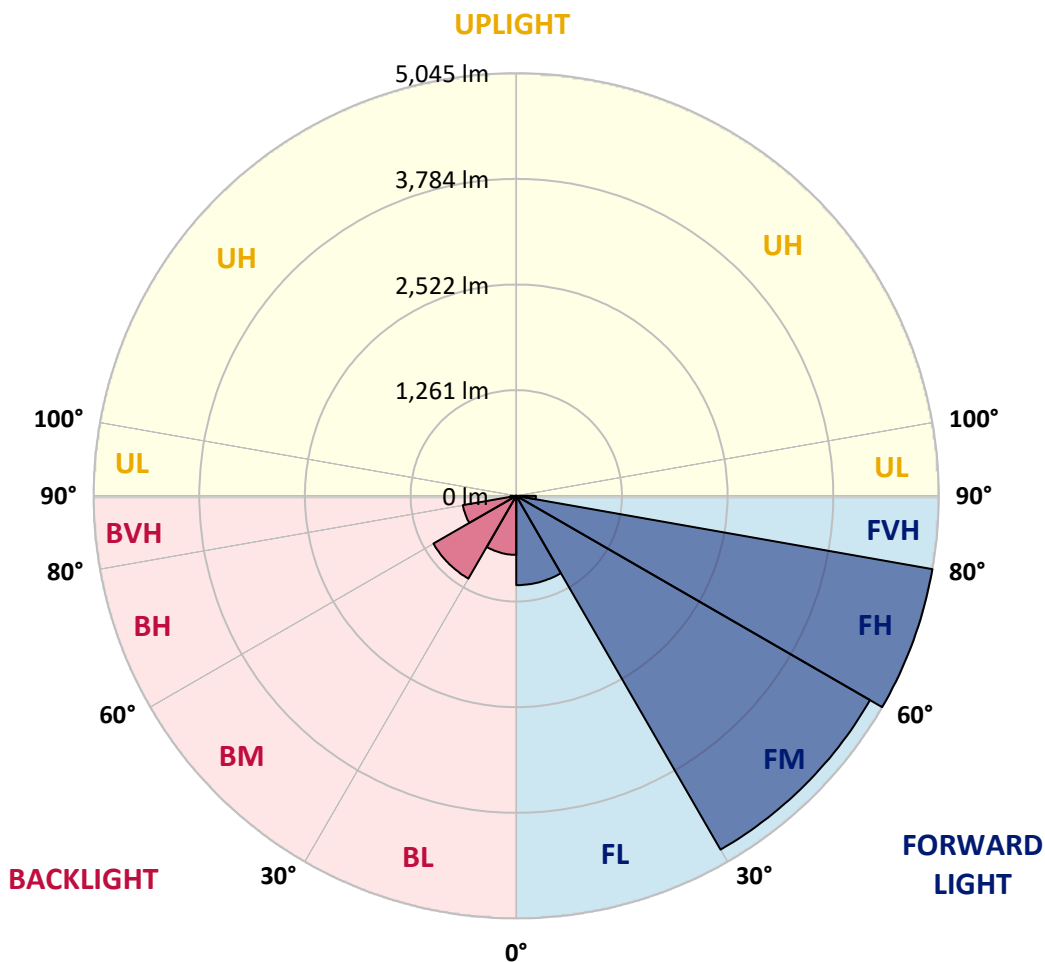


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1066.6	7.7			
FM (30°-60°)	4877.4	35.4			
FH (60°-80°)	5044.9	36.6			G3/7500
FVH (80°-90°)	234.0	1.7			G3/500
BL (0°-30°)	705.0	5.1	B2/1000		
BM (30°-60°)	1141.5	8.3	B2/2500		
BH (60°-80°)	647.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	68.7	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-G3**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3
2.5°	2352.3	2346.7	2353.6	2363.4	2374.1	2388.6	2397.0	2400.7	2415.1	2420.7	2432.7
5°	2243.3	2240.5	2252.1	2268.9	2292.6	2326.2	2353.2	2358.3	2396.5	2423.5	2448.1
7.5°	2164.2	2164.2	2177.6	2197.6	2224.2	2269.3	2307.5	2314.5	2379.3	2437.4	2483.0
10°	2101.3	2103.6	2119.5	2143.2	2174.3	2222.3	2273.1	2281.0	2374.6	2470.0	2542.7
12.5°	2059.4	2065.0	2079.4	2100.8	2139.5	2197.6	2261.9	2272.6	2384.4	2516.6	2614.4
15°	2085.9	2095.2	2096.6	2105.5	2126.9	2190.2	2268.4	2279.6	2405.3	2564.1	2695.8
17.5°	2202.3	2205.5	2191.1	2172.6	2162.3	2202.7	2288.0	2299.6	2430.4	2611.1	2774.1
20°	2379.3	2377.4	2346.2	2295.9	2243.7	2250.2	2320.1	2332.2	2464.4	2652.6	2852.3
22.5°	2602.7	2596.2	2548.2	2455.6	2366.7	2329.4	2376.5	2386.7	2515.6	2711.6	2936.1
25°	2873.7	2859.3	2795.9	2671.7	2540.8	2444.8	2461.1	2470.9	2590.2	2777.8	3012.9
27.5°	3159.6	3145.2	3064.6	2914.3	2740.1	2590.6	2578.1	2586.4	2674.9	2826.7	3069.7
30°	3458.5	3443.2	3369.6	3201.0	2951.4	2741.5	2687.0	2690.2	2734.5	2853.2	3116.3
32.5°	3758.8	3744.4	3662.0	3466.4	3181.0	2903.5	2765.7	2761.5	2770.3	2880.7	3168.9
35°	4063.3	4068.9	3972.5	3756.0	3435.3	3083.7	2858.8	2850.0	2830.4	2937.1	3243.4
37.5°	4389.3	4385.5	4260.7	4034.4	3701.1	3279.2	2992.4	2991.0	2923.6	3043.6	3360.3
40°	4607.2	4609.5	4533.6	4319.4	3969.7	3495.7	3163.8	3160.6	3072.1	3203.3	3513.4
42.5°	4692.4	4707.8	4727.3	4591.3	4250.9	3746.7	3368.2	3363.5	3279.2	3432.5	3693.7
45°	4698.4	4729.1	4850.2	4833.0	4535.9	4034.0	3629.4	3616.4	3555.8	3736.9	3908.8
47.5°	4646.3	4678.0	4879.1	4976.9	4790.6	4337.1	3934.9	3924.6	3872.4	4117.8	4141.6
50°	4532.2	4562.4	4819.5	5047.1	5000.1	4628.6	4286.8	4259.8	4231.8	4557.8	4407.9
52.5°	4318.5	4376.7	4739.8	5063.9	5125.4	4887.5	4657.0	4639.3	4654.7	5022.0	4674.7
55°	3812.4	3877.6	4534.5	5049.9	5218.1	5104.9	5027.1	5026.2	5105.8	5509.0	4961.0
57.5°	3528.8	3574.9	4116.4	5026.2	5327.9	5320.9	5393.6	5402.4	5557.4	6039.3	5260.8
60°	3368.7	3417.1	3904.6	4938.2	5498.3	5600.3	5767.4	5785.1	6016.5	6626.5	5621.7
62.5°	3222.9	3276.0	3773.2	4758.9	5699.0	5999.8	6215.4	6231.2	6502.7	7229.9	5970.5
65°	2973.8	3033.9	3581.0	4641.2	5881.5	6520.7	6784.7	6795.5	7060.9	7862.2	6237.3
67.5°	2621.8	2676.8	3218.2	4380.9	6016.5	7153.5	7541.8	7547.9	7614.5	8308.7	6373.6
70°	2210.7	2231.6	2701.4	3843.6	5856.8	7745.4	8371.5	8372.9	8119.2	8594.6	6351.3
72.5°	1553.3	1602.6	1961.1	2909.6	5033.2	7673.2	8802.3	8818.1	8353.8	8450.3	5843.8
75°	952.6	1004.8	1230.1	1763.2	3193.2	6034.7	8132.7	8242.6	7913.9	7534.5	4773.8
77.5°	637.0	656.5	802.7	1028.1	1446.6	3472.0	6252.6	6459.4	6574.3	5494.6	3053.0
80°	355.3	392.5	532.2	638.9	643.4	1379.6	3749.0	3797.5	3657.8	2187.8	941.9
82.5°	188.1	208.6	355.3	375.3	351.1	461.9	1397.3	1398.7	1168.6	586.7	279.8
85°	145.7	162.9	243.5	229.1	179.2	204.8	460.9	486.1	397.6	240.2	91.3
87.5°	72.7	90.4	165.3	145.2	70.3	58.7	164.8	176.0	156.9	94.1	33.1
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°	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3
2.5°	2437.4	2441.6	2446.7	2441.1	2439.3	2431.8	2419.3	2416.5	2410.0	2410.5	2414.2
5°	2458.8	2465.8	2463.0	2441.6	2416.1	2380.2	2342.9	2311.3	2290.3	2288.9	2287.5
7.5°	2499.8	2504.5	2482.6	2421.7	2349.9	2267.0	2188.8	2120.4	2078.9	2068.7	2066.4
10°	2564.1	2563.2	2503.1	2380.2	2237.2	2089.2	1963.4	1868.5	1813.1	1796.8	1792.6
12.5°	2635.8	2625.1	2510.1	2304.7	2078.0	1872.7	1713.4	1607.8	1550.0	1531.4	1526.7
15°	2709.8	2683.3	2492.8	2192.0	1882.5	1639.4	1472.2	1374.5	1343.3	1333.0	1331.2
17.5°	2778.7	2727.5	2443.4	2039.3	1659.5	1407.0	1276.7	1237.6	1245.0	1258.5	1259.0
20°	2846.3	2757.3	2364.4	1846.6	1424.2	1215.7	1171.4	1200.3	1235.7	1263.2	1266.9
22.5°	2912.9	2778.2	2262.4	1624.1	1213.8	1108.2	1139.4	1191.9	1232.4	1262.2	1267.4
25°	2968.7	2783.4	2121.8	1386.6	1067.6	1067.6	1124.0	1173.7	1213.8	1243.2	1248.3
27.5°	2989.1	2748.9	1923.4	1166.8	994.1	1049.0	1102.6	1144.0	1177.9	1209.1	1214.7
30°	2997.1	2685.1	1694.3	990.3	963.8	1029.0	1073.7	1109.1	1141.2	1170.5	1175.6
32.5°	2998.5	2608.3	1451.3	890.3	942.8	1008.0	1037.8	1069.0	1103.5	1115.2	1117.0
35°	3007.3	2517.5	1195.2	839.0	923.3	988.5	1012.2	1034.6	978.7	982.9	986.6
37.5°	3032.9	2427.7	981.0	810.2	910.7	978.2	1006.6	925.6	881.9	871.6	870.3
40°	3080.9	2331.8	822.3	786.9	906.0	983.3	970.8	864.2	788.7	732.4	724.0
42.5°	3147.5	2228.4	720.7	771.5	909.3	1008.0	920.9	805.0	679.8	643.4	638.9
45°	3222.4	2119.9	665.8	760.8	920.5	1027.1	910.7	726.3	629.1	601.6	599.3
47.5°	3295.1	1987.2	637.5	756.1	935.8	1011.8	867.5	702.1	604.9	590.4	591.8
50°	3378.4	1867.6	620.2	751.0	949.3	1002.0	818.6	689.5	595.5	613.2	631.9
52.5°	3448.8	1743.7	604.9	740.8	954.5	984.7	806.0	691.9	595.5	629.5	647.1
55°	3532.1	1650.1	587.2	719.3	944.7	935.8	797.1	705.8	602.5	581.1	583.0
57.5°	3639.6	1619.4	567.6	685.8	912.1	864.7	792.9	719.3	598.3	584.8	589.5
60°	3788.6	1652.0	559.7	642.0	861.4	808.8	793.4	712.4	569.0	545.7	546.2
62.5°	3930.7	1688.2	559.2	614.6	799.0	758.9	782.7	689.5	554.1	540.6	545.7
65°	3977.1	1651.5	536.9	583.9	728.7	699.3	763.1	665.3	542.9	522.4	521.5
67.5°	3914.8	1537.4	491.7	534.1	648.1	630.0	737.5	636.5	525.2	508.4	505.6
70°	3729.5	1282.7	435.8	468.4	556.4	551.8	697.0	603.0	501.5	487.0	474.9
72.5°	3230.8	913.9	367.4	389.7	453.0	467.9	641.1	559.2	467.9	436.7	418.1
75°	2653.5	676.5	301.7	306.4	344.1	384.5	564.3	508.0	428.3	375.3	360.9
77.5°	1625.0	413.9	240.2	242.1	246.8	306.9	464.7	450.7	378.1	312.9	302.7
80°	526.1	225.8	173.6	182.5	168.5	224.9	359.5	383.6	324.6	261.7	250.5
82.5°	200.2	131.7	117.4	123.4	116.9	150.8	262.1	307.3	265.9	215.1	175.0
85°	96.9	74.5	69.4	77.8	72.2	77.3	167.6	226.3	201.6	140.1	130.3
87.5°	34.5	33.1	26.5	35.9	30.7	27.5	51.2	114.1	133.1	96.4	86.2
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)