

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: P319168

Luminaire Tested: **GLEON-SA4C-827-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319168  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4C-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20828 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

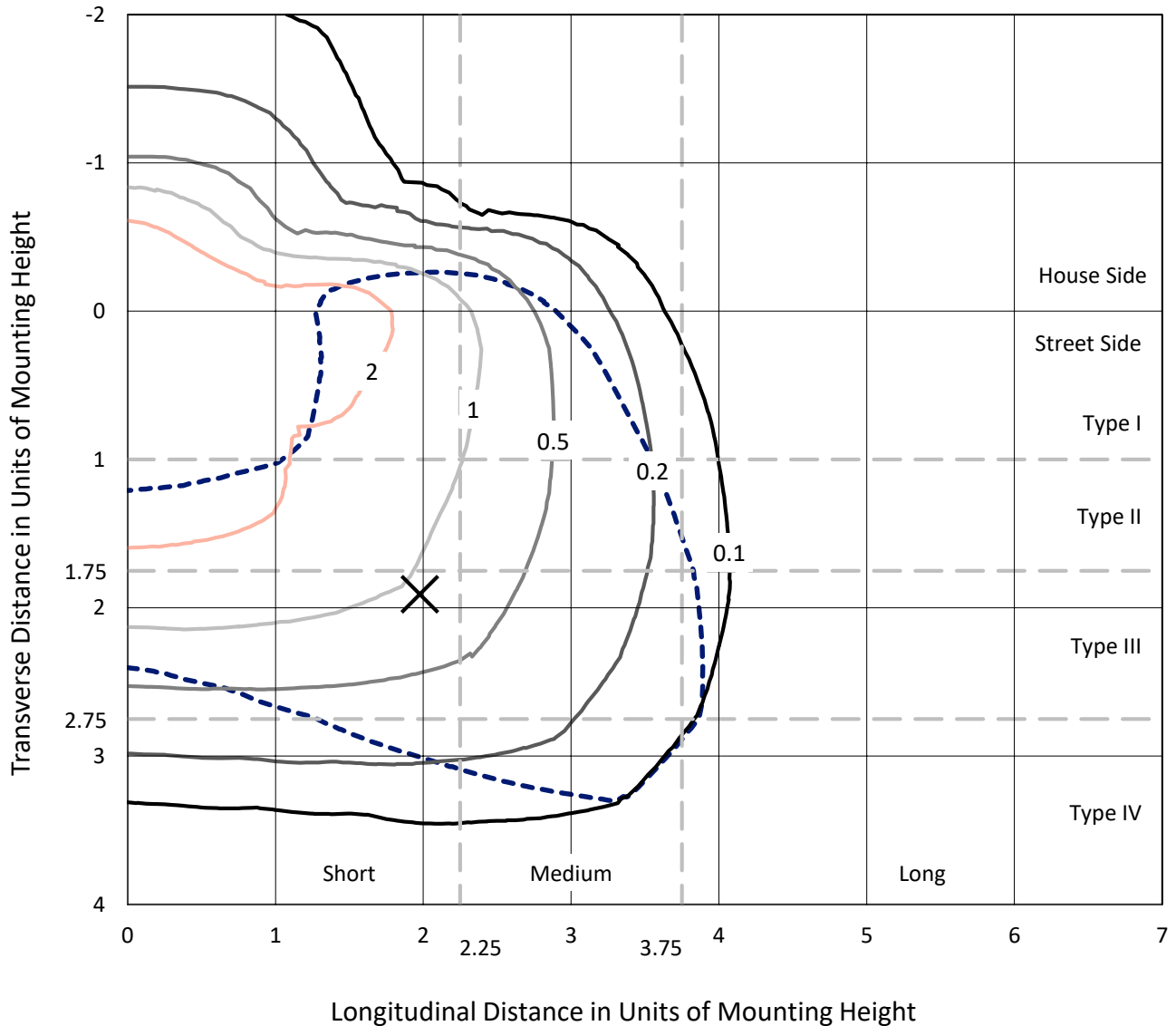
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

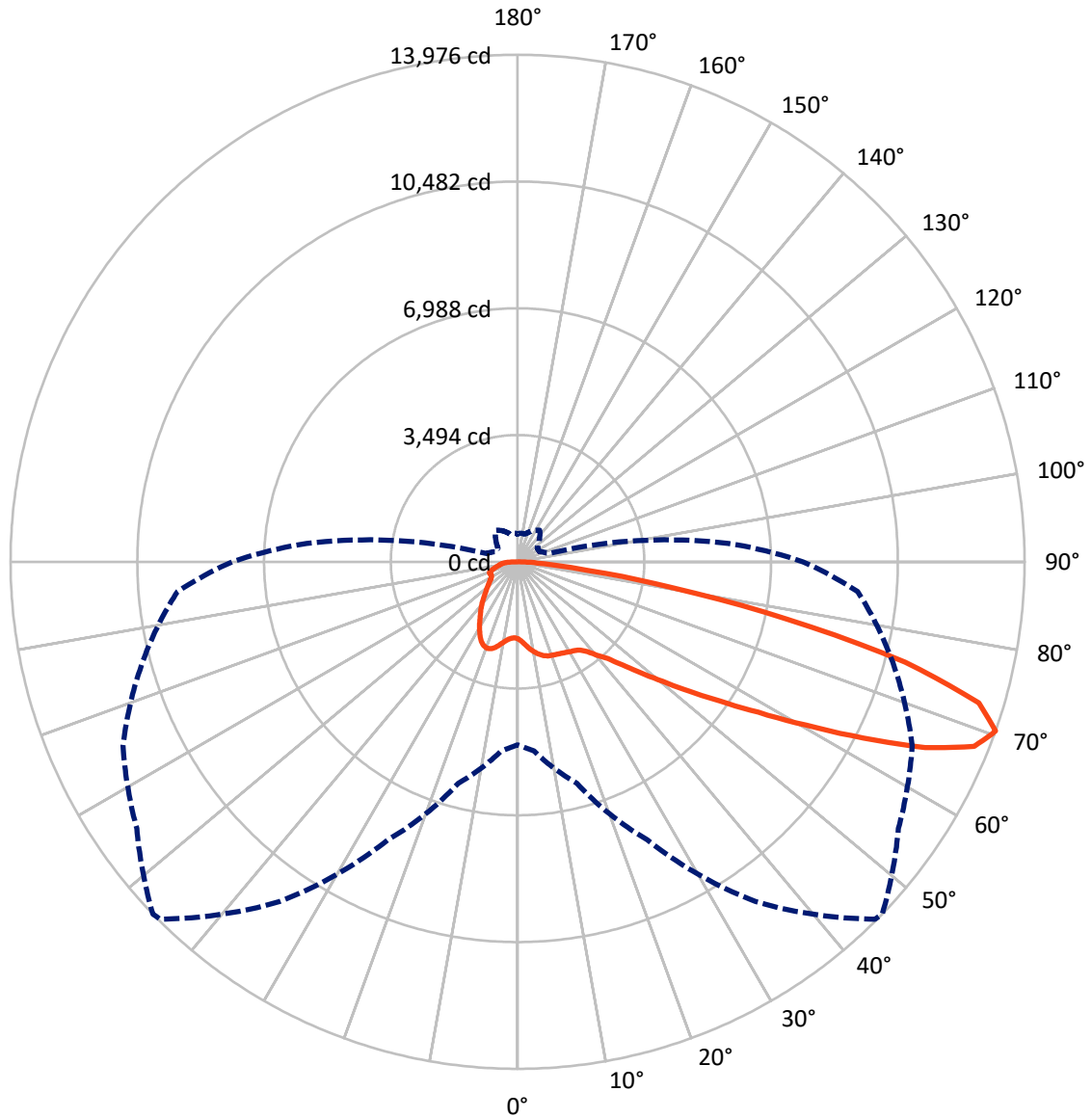
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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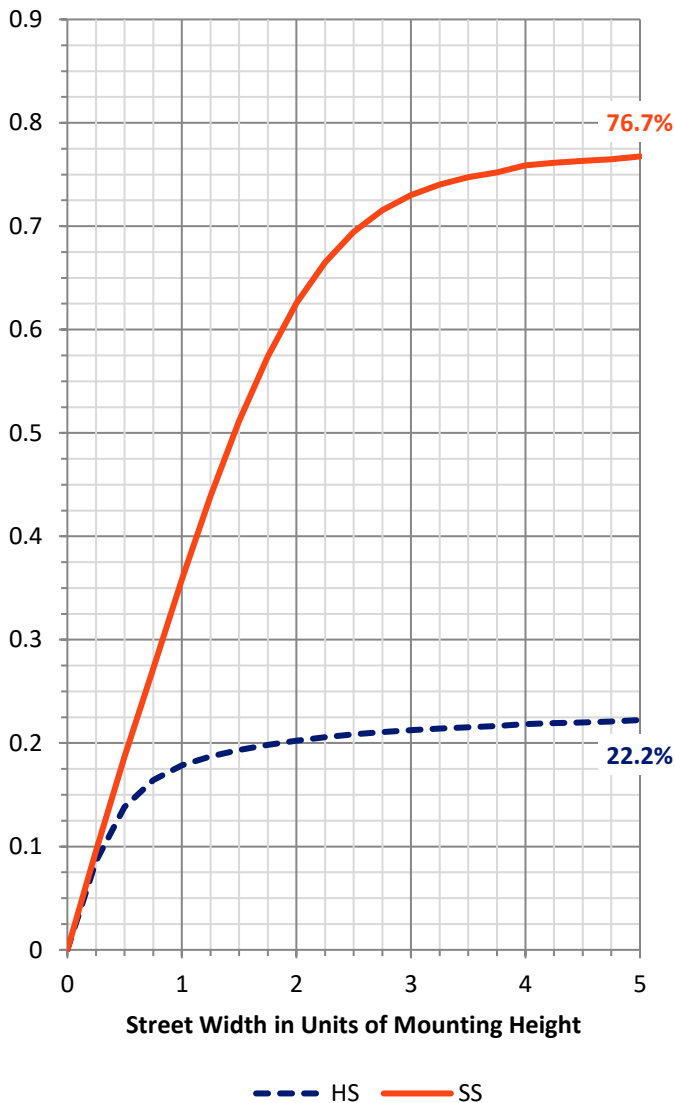
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4773.7	0.0	4773.7
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	16054.3	0.0	16054.3
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	20828.0	0.0	20828.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.3	1.0
10°-20°	720.7	3.5
20°-30°	1201.7	5.8
30°-40°	1705.3	8.2
40°-50°	2508.4	12.0
50°-60°	4247.9	20.4
60°-70°	6029.9	29.0
70°-80°	3663.2	17.6
80°-90°	534.6	2.6
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°	20828.0	100.0
0°-180°	20828.0	100.0

**Coefficient of Utilization**



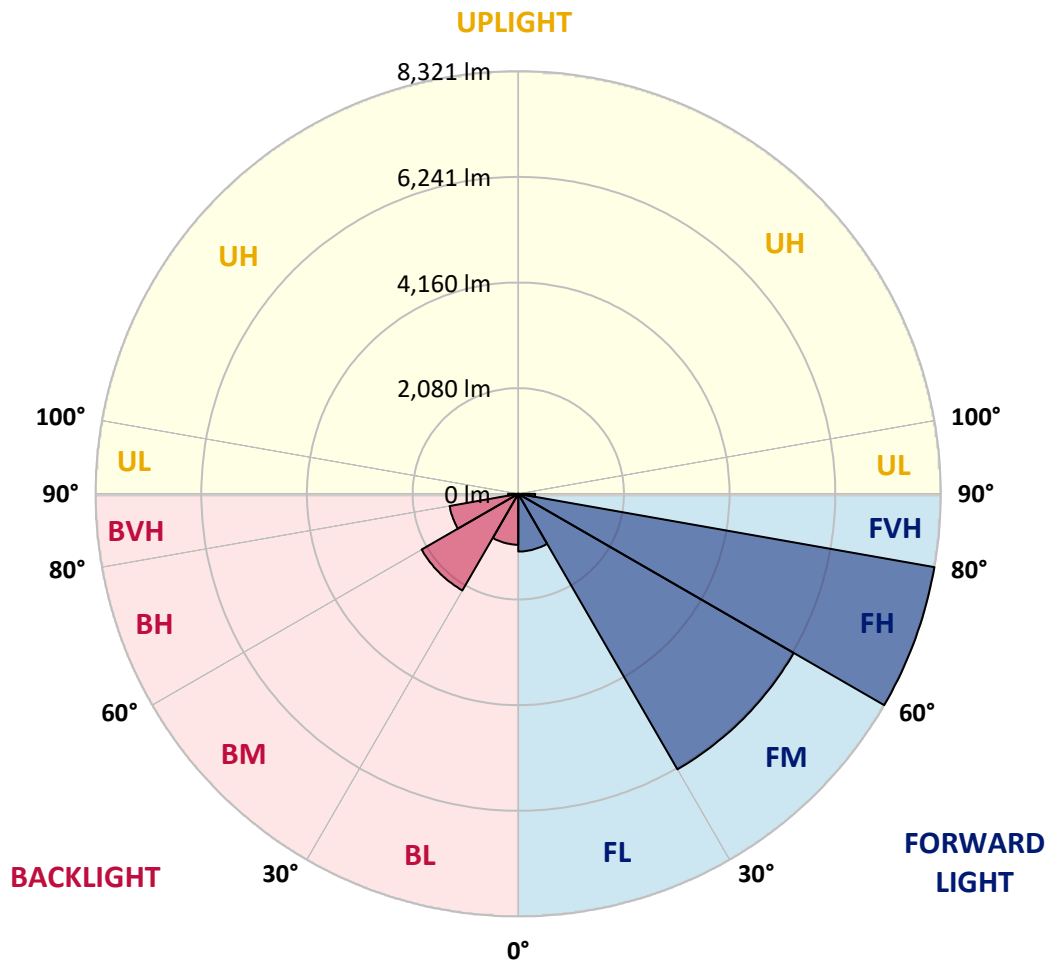
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1136.5	5.5			
FM (30°-60°)	6264.1	30.1			
FH (60°-80°)	8320.7	39.9			G4/12000
FVH (80°-90°)	333.0	1.6			G3/500
BL (0°-30°)	1002.3	4.8	B3/2500		
BM (30°-60°)	2197.5	10.6	B2/2500		
BH (60°-80°)	1372.4	6.6	B3/2500		G3/2500
BVH (80°-90°)	201.6	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2122.0	2122.0	2122.0	2122.0	2122.0	2122.0	2122.0	2122.0	2122.0	2122.0	2122.0
2.5°	2228.2	2229.6	2232.4	2225.3	2205.4	2199.7	2197.5	2176.9	2163.3	2143.3	2126.2
5°	2406.4	2407.8	2403.5	2383.6	2339.4	2306.6	2303.7	2256.7	2213.9	2168.3	2134.1
7.5°	2592.4	2594.5	2581.0	2543.2	2481.2	2424.2	2420.6	2356.5	2291.6	2222.5	2171.1
10°	2757.1	2748.5	2726.4	2673.7	2600.2	2530.4	2527.5	2460.5	2385.7	2302.3	2233.9
12.5°	2866.8	2859.7	2831.2	2767.0	2686.5	2622.3	2616.6	2554.6	2481.9	2390.7	2308.7
15°	2927.4	2932.4	2893.9	2821.2	2742.8	2688.6	2683.6	2639.4	2574.6	2482.6	2388.5
17.5°	2935.3	2939.5	2902.5	2830.5	2766.3	2729.3	2727.1	2697.9	2650.9	2562.5	2464.1
20°	2889.6	2892.5	2861.8	2802.7	2760.6	2749.2	2748.5	2735.7	2700.7	2622.3	2526.8
22.5°	2823.3	2825.5	2803.4	2760.6	2746.4	2764.2	2769.2	2764.2	2739.2	2665.8	2576.0
25°	2807.0	2805.5	2782.7	2739.2	2751.4	2789.1	2795.5	2797.7	2780.6	2716.4	2638.7
27.5°	2886.1	2881.1	2837.6	2767.8	2775.6	2821.2	2829.8	2850.4	2839.7	2783.4	2710.0
30°	3114.9	3106.3	3017.2	2876.1	2837.6	2861.1	2871.8	2904.6	2906.7	2859.7	2804.8
32.5°	3501.2	3490.5	3330.9	3078.5	2942.4	2901.8	2911.7	2960.9	2987.3	2950.9	2891.8
35°	3989.5	3977.3	3767.8	3422.8	3117.7	2979.4	2986.6	3025.8	3078.5	3027.2	2948.8
37.5°	4498.4	4469.2	4267.5	3827.7	3396.4	3145.5	3145.5	3150.5	3175.5	3068.5	3015.8
40°	5004.5	4975.3	4792.8	4303.8	3757.1	3407.1	3390.7	3280.2	3260.3	3168.3	3150.5
42.5°	5474.9	5466.4	5358.7	4842.0	4180.5	3664.4	3641.6	3454.2	3458.4	3401.4	3402.1
45°	5975.3	5975.3	5887.6	5385.1	4673.7	4077.9	4055.0	3779.2	3822.0	3795.6	3859.0
47.5°	6383.7	6396.5	6384.4	5951.1	5247.5	4603.2	4561.8	4229.7	4349.4	4439.9	4624.6
50°	6800.7	6820.7	6822.8	6571.9	5941.1	5227.6	5180.5	4827.7	5095.0	5354.5	5717.3
52.5°	7405.9	7450.8	7271.8	7191.3	6790.7	5968.9	5922.5	5596.8	6043.0	6407.2	7032.4
55°	7966.8	7927.6	7800.0	7849.9	7700.2	6812.8	6777.9	6492.1	7099.4	7572.6	8384.5
57.5°	8270.5	8267.6	8395.9	8609.7	8681.0	7853.5	7824.3	7546.3	8290.4	8646.1	9654.0
60°	8626.9	8631.8	8949.7	9435.2	9728.8	9149.3	9136.5	8925.5	9447.3	9648.3	10649.7
62.5°	8676.8	8766.6	9314.0	10149.4	10709.6	10663.3	10691.8	10167.9	10482.2	10448.0	11393.2
65°	8103.0	8221.3	9212.1	10365.3	11684.7	12319.1	12345.5	11417.4	11298.4	11131.6	11659.0
67.5°	6926.9	7102.2	8178.5	9895.6	12006.2	13542.9	13580.0	12386.1	11975.5	11363.2	11019.0
70°	5040.8	5235.4	6318.9	8451.5	11433.1	13934.3	13976.3	12814.5	12001.2	10703.9	9406.6
72.5°	3045.0	3197.6	4090.7	6221.9	9649.7	13221.5	13296.3	12271.3	10957.0	9066.6	6946.1
75°	1337.2	1437.0	1978.0	3585.3	6908.3	10939.1	11032.5	10503.6	8902.7	6589.0	4105.7
77.5°	569.5	598.0	811.2	1557.4	3905.4	7475.0	7603.3	7674.6	6040.2	3585.3	1734.9
80°	355.0	366.4	459.0	704.9	1827.6	4198.3	4336.6	4515.5	2999.4	1317.9	605.9
82.5°	216.0	228.8	305.1	426.2	951.6	1903.1	1969.4	2095.6	1164.0	569.5	313.6
85°	129.7	139.0	186.8	269.4	541.7	748.4	747.7	826.8	548.1	366.4	165.4
87.5°	62.0	69.1	99.8	139.7	273.0	280.8	263.0	297.9	332.9	240.2	83.4
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°	2122.0	2122.0	2122.0	2122.0	2122.0	2122.0	2122.0	2122.0	2122.0	2122.0	2122.0
2.5°	2120.5	2117.7	2108.4	2101.3	2099.9	2095.6	2092.0	2094.2	2097.0	2097.7	2097.7
5°	2119.8	2112.0	2099.9	2094.9	2101.3	2109.8	2120.5	2134.8	2143.3	2149.8	2154.0
7.5°	2154.0	2139.1	2125.5	2122.7	2135.5	2158.3	2182.6	2212.5	2233.2	2247.4	2250.3
10°	2211.1	2192.5	2179.0	2181.8	2204.6	2237.4	2271.7	2310.1	2341.5	2360.7	2362.2
12.5°	2276.6	2258.8	2246.0	2258.1	2295.9	2335.8	2371.4	2404.9	2433.5	2452.7	2452.7
15°	2352.2	2339.4	2324.4	2352.2	2403.5	2439.2	2454.1	2470.5	2486.2	2500.5	2497.6
17.5°	2424.9	2412.8	2404.9	2437.7	2491.2	2507.6	2497.6	2485.5	2485.5	2493.3	2494.8
20°	2487.6	2476.9	2481.9	2514.0	2541.8	2524.7	2487.6	2449.1	2433.5	2437.7	2442.0
22.5°	2542.5	2537.5	2552.5	2567.5	2547.5	2487.6	2419.2	2367.2	2347.9	2346.5	2347.9
25°	2606.7	2605.9	2624.5	2597.4	2509.0	2398.5	2306.6	2256.0	2245.3	2253.8	2268.1
27.5°	2686.5	2694.3	2703.6	2604.5	2430.6	2263.8	2170.4	2135.5	2146.2	2166.9	2180.4
30°	2788.4	2809.8	2789.8	2586.7	2318.0	2109.8	2020.7	2010.8	2040.0	2069.2	2083.5
32.5°	2887.5	2921.0	2872.5	2540.4	2172.6	1946.6	1877.5	1874.6	1910.3	1938.8	1958.7
35°	2967.3	3033.6	2934.5	2448.4	2004.4	1796.2	1745.6	1726.4	1739.2	1772.7	1795.5
37.5°	3071.4	3181.9	2977.3	2308.0	1821.9	1672.2	1613.0	1568.8	1557.4	1571.0	1582.4
40°	3261.7	3407.8	2997.3	2112.0	1643.7	1548.2	1488.3	1423.4	1378.5	1345.7	1346.5
42.5°	3572.5	3702.2	2984.4	1873.9	1479.0	1427.0	1359.3	1284.4	1211.7	1137.6	1131.9
45°	4077.1	4139.9	2945.9	1621.6	1334.3	1300.1	1236.7	1161.8	1064.9	980.8	973.0
47.5°	4884.7	4745.7	2886.1	1401.3	1206.7	1192.5	1134.0	1047.8	945.2	877.4	871.7
50°	5986.0	5620.3	2856.8	1226.0	1094.1	1098.4	1050.6	959.4	862.5	812.6	806.9
52.5°	7303.2	6638.9	2913.2	1090.6	1003.6	1018.6	982.9	897.4	816.1	776.9	771.2
55°	8669.6	7693.8	2973.7	992.2	918.1	947.3	935.2	864.6	791.2	754.8	749.9
57.5°	9839.3	8481.4	2852.6	912.4	841.8	887.4	898.1	843.9	778.4	745.6	739.9
60°	10575.6	8798.6	2534.7	837.5	781.2	839.7	876.7	838.2	783.4	780.5	776.2
62.5°	10924.9	8770.8	2057.8	778.4	743.4	819.0	892.4	870.3	840.4	866.0	868.2
65°	10768.1	8351.7	1532.5	739.2	716.4	826.8	939.5	930.9	856.8	882.4	886.0
67.5°	9736.0	7351.7	1134.8	704.9	686.4	848.9	1025.0	950.9	824.7	843.2	831.8
70°	7869.2	5828.5	875.3	666.5	655.8	846.1	1063.5	938.7	789.8	794.0	763.4
72.5°	5426.4	3974.5	712.1	630.8	611.6	771.2	1036.4	908.8	760.5	727.8	687.1
75°	2950.9	2133.4	605.2	593.8	533.9	677.1	986.5	887.4	734.2	690.7	667.9
77.5°	1161.1	885.3	525.3	543.1	466.9	598.0	930.9	846.8	697.8	640.8	629.4
80°	474.0	451.9	435.5	469.7	401.3	523.2	863.9	799.0	654.3	594.5	571.7
82.5°	268.7	280.8	338.6	370.6	325.7	481.8	831.8	760.5	602.3	532.5	505.4
85°	137.6	164.7	235.9	265.9	239.5	409.9	766.2	665.7	483.3	407.7	409.9
87.5°	66.3	91.9	149.0	166.8	155.4	296.5	572.4	482.6	376.4	297.9	288.7
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)