

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: P319150

Luminaire Tested: **GLEON-SA6A-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319150
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-SA6A-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20347 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

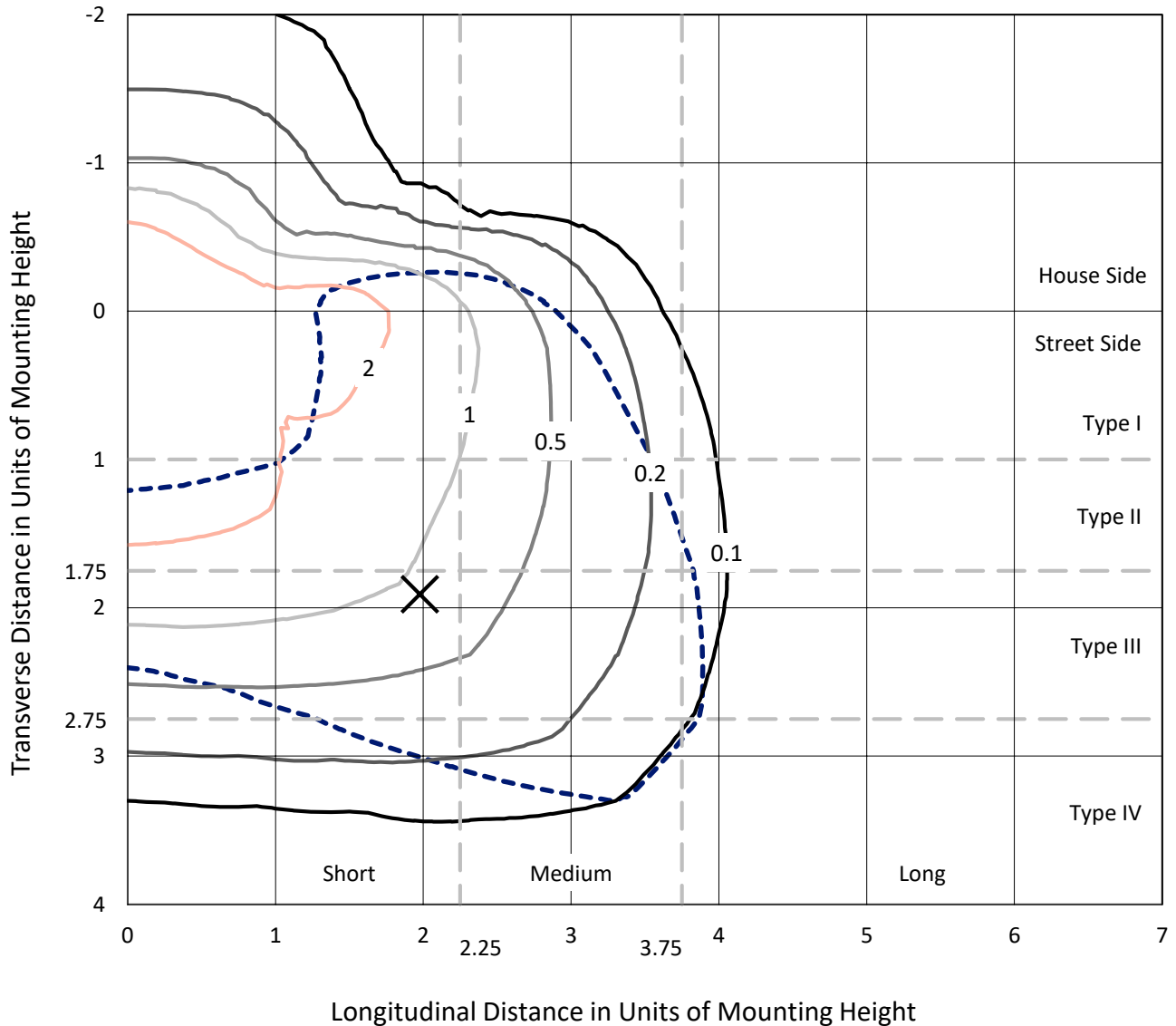
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

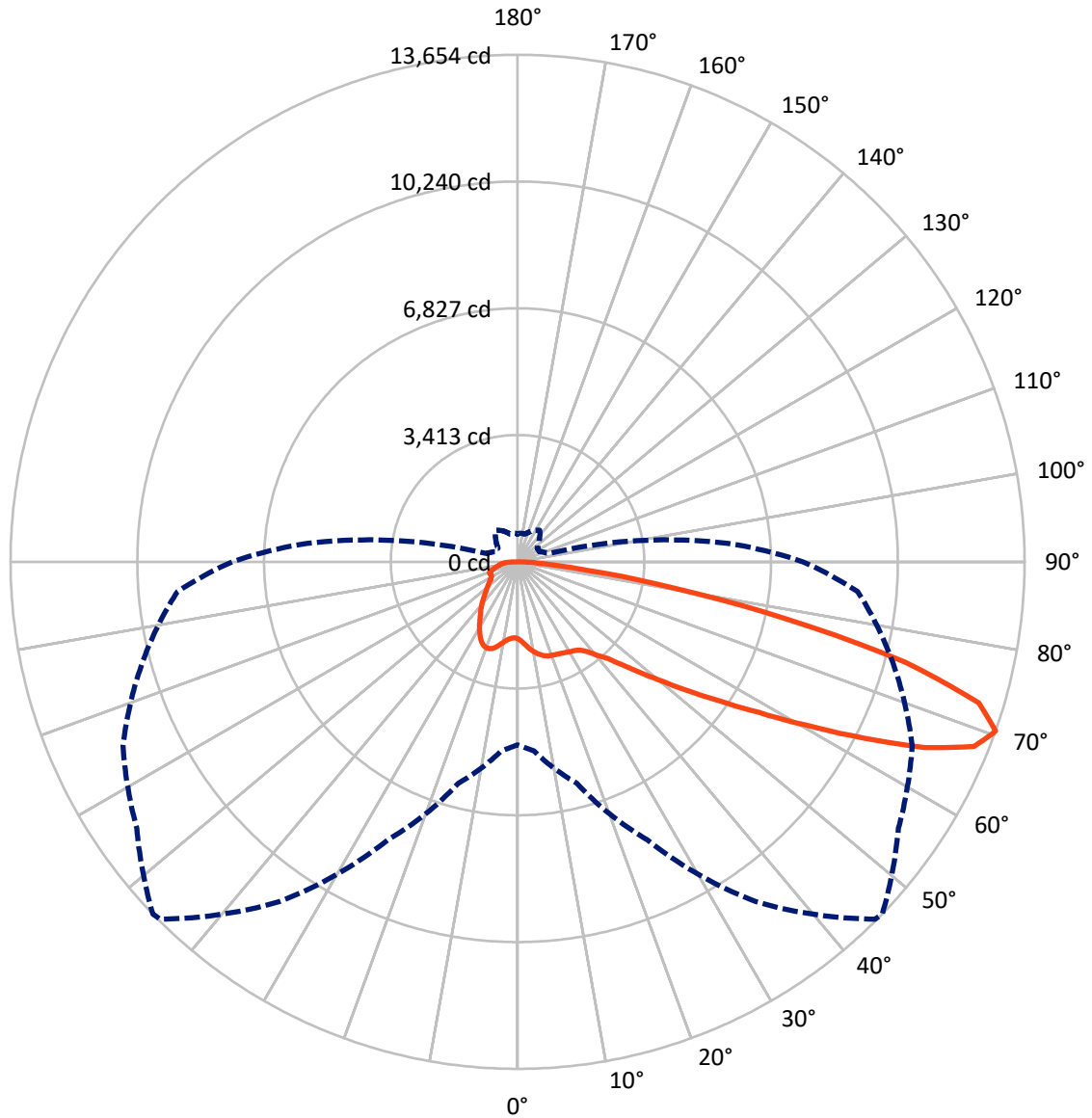
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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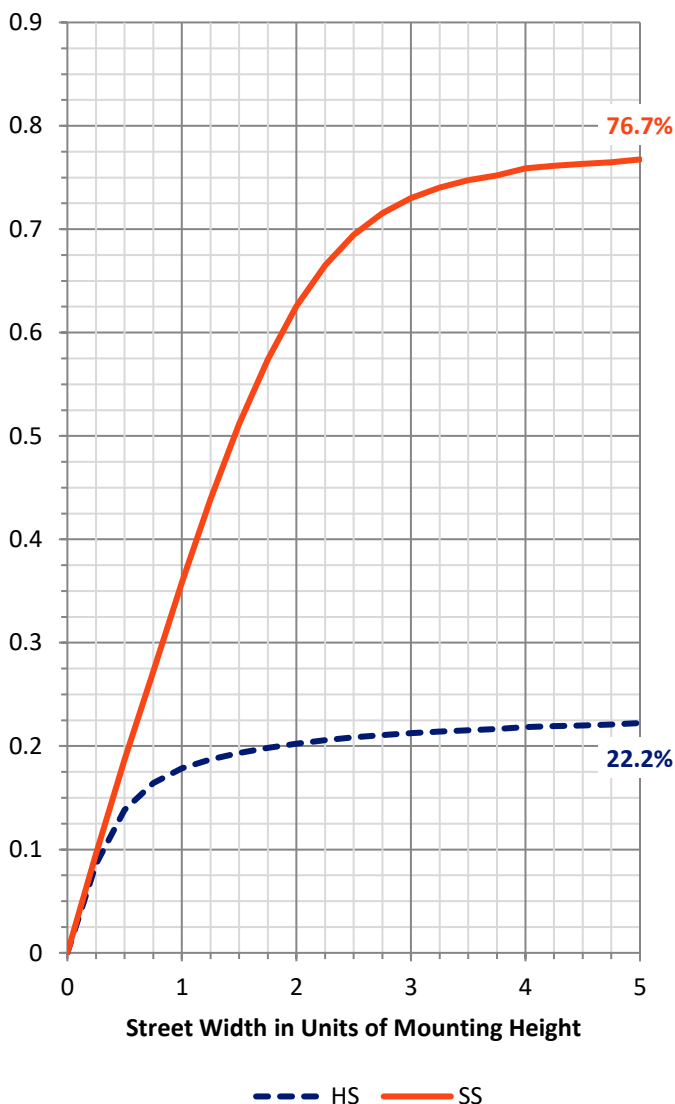
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4663.5	0.0	4663.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	15683.5	0.0	15683.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	20347.0	0.0	20347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.3	1.0
10°-20°	704.1	3.5
20°-30°	1173.9	5.8
30°-40°	1665.9	8.2
40°-50°	2450.5	12.0
50°-60°	4149.8	20.4
60°-70°	5890.6	29.0
70°-80°	3578.6	17.6
80°-90°	522.3	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°	20347.0	100.0
0°-180°	20347.0	100.0

Coefficient of Utilization



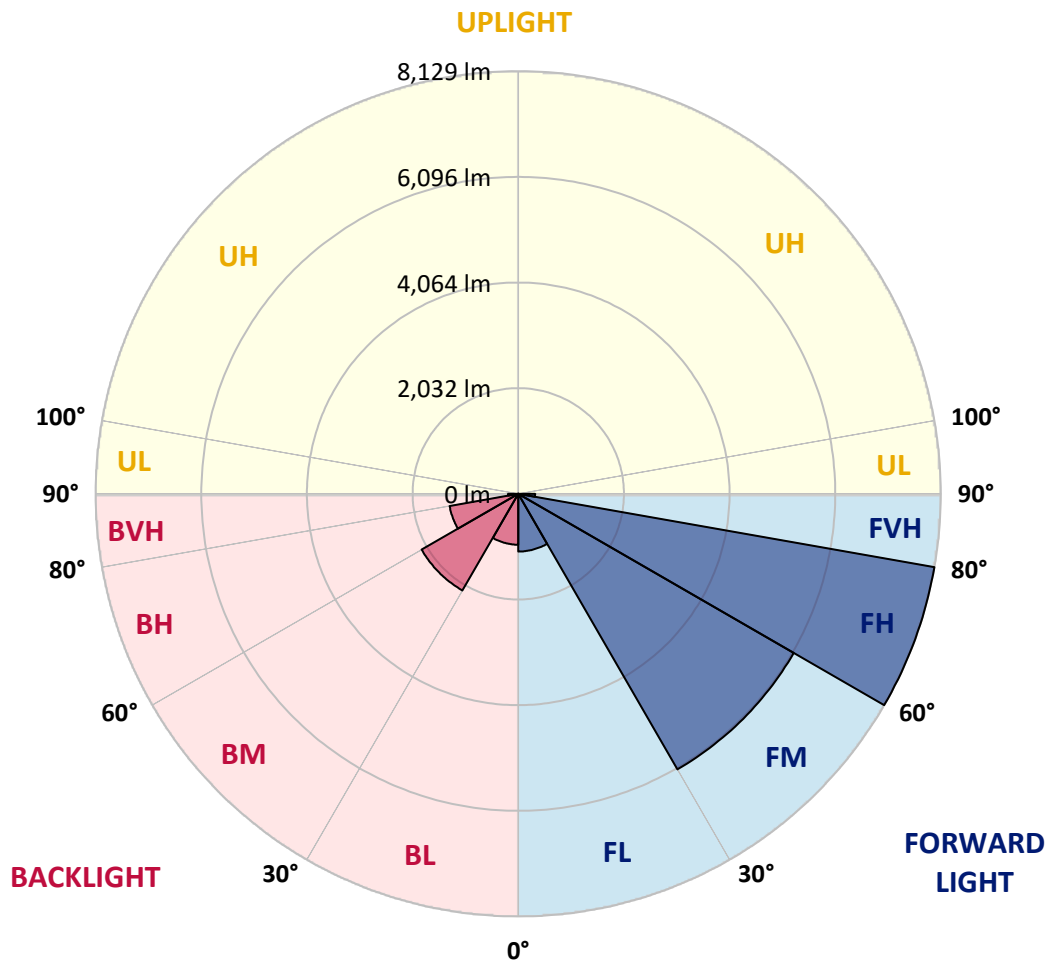
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1110.2	5.5			
FM (30°-60°)	6119.5	30.1			
FH (60°-80°)	8128.5	39.9			G4/12000
FVH (80°-90°)	325.3	1.6			G3/500
BL (0°-30°)	979.1	4.8	B2/1000		
BM (30°-60°)	2146.7	10.6	B2/2500		
BH (60°-80°)	1340.7	6.6	B3/2500		G3/2500
BVH (80°-90°)	196.9	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°	2073.0	2073.0	2073.0	2073.0	2073.0	2073.0	2073.0	2073.0	2073.0	2073.0	2073.0
2.5°	2176.7	2178.1	2180.9	2173.9	2154.4	2148.9	2146.8	2126.6	2113.3	2093.9	2077.1
5°	2350.8	2352.2	2348.0	2328.5	2285.3	2253.3	2250.5	2204.6	2162.8	2118.2	2084.8
7.5°	2532.5	2534.6	2521.4	2484.5	2423.9	2368.2	2364.7	2302.1	2238.7	2171.1	2121.0
10°	2693.4	2685.0	2663.4	2611.9	2540.2	2472.0	2469.2	2403.7	2330.6	2249.1	2182.3
12.5°	2800.6	2793.7	2765.8	2703.1	2624.5	2561.8	2556.2	2495.6	2424.6	2335.5	2255.4
15°	2859.8	2864.7	2827.1	2756.1	2679.5	2626.5	2621.7	2578.5	2515.1	2425.3	2333.4
17.5°	2867.5	2871.6	2835.4	2765.1	2702.4	2666.2	2664.1	2635.6	2589.6	2503.3	2407.2
20°	2822.9	2825.7	2795.7	2738.0	2696.9	2685.7	2685.0	2672.5	2638.4	2561.8	2468.5
22.5°	2758.1	2760.2	2738.6	2696.9	2682.9	2700.4	2705.2	2700.4	2676.0	2604.3	2516.5
25°	2742.1	2740.7	2718.5	2676.0	2687.8	2724.7	2731.0	2733.1	2716.4	2653.7	2577.8
27.5°	2819.4	2814.5	2772.1	2703.8	2711.5	2756.1	2764.4	2784.6	2774.2	2719.2	2647.4
30°	3042.9	3034.6	2947.5	2809.7	2772.1	2795.1	2805.5	2837.5	2839.6	2793.7	2740.0
32.5°	3420.4	3409.9	3253.9	3007.4	2874.4	2834.7	2844.5	2892.5	2918.3	2882.8	2825.0
35°	3897.3	3885.5	3680.8	3343.8	3045.7	2910.6	2917.6	2955.9	3007.4	2957.3	2880.7
37.5°	4394.5	4366.0	4168.9	3739.3	3318.0	3072.9	3072.9	3077.8	3102.1	2997.7	2946.2
40°	4888.9	4860.4	4682.1	4204.4	3670.3	3328.4	3312.4	3204.5	3185.0	3095.2	3077.8
42.5°	5348.5	5340.1	5235.0	4730.1	4083.9	3579.8	3557.5	3374.4	3378.6	3322.9	3323.6
45°	5837.3	5837.3	5751.6	5260.7	4565.8	3983.7	3961.4	3691.9	3733.7	3707.9	3769.9
47.5°	6236.3	6248.8	6237.0	5813.6	5126.3	4496.9	4456.5	4132.0	4249.0	4337.4	4517.8
50°	6643.6	6663.1	6665.2	6420.1	5803.9	5106.9	5060.9	4716.2	4977.3	5230.8	5585.2
52.5°	7234.8	7278.7	7103.9	7025.2	6633.9	5831.0	5785.8	5467.5	5903.4	6259.3	6869.9
55°	7782.8	7744.5	7619.9	7668.6	7522.4	6655.5	6621.4	6342.1	6935.4	7397.8	8190.9
57.5°	8079.5	8076.7	8202.0	8410.9	8480.5	7672.1	7643.6	7372.0	8099.0	8446.4	9431.0
60°	8427.6	8432.5	8743.1	9217.3	9504.1	8938.0	8925.5	8719.4	9229.1	9425.5	10403.8
62.5°	8476.4	8564.1	9098.9	9915.0	10462.3	10417.0	10444.9	9933.1	10240.2	10206.7	11130.1
65°	7915.8	8031.4	8999.3	10126.0	11414.9	12034.6	12060.4	11153.7	11037.5	10874.5	11389.8
67.5°	6766.9	6938.2	7989.6	9667.1	11728.9	13230.2	13266.4	12100.0	11699.0	11100.8	10764.5
70°	4924.4	5114.5	6172.9	8256.3	11169.1	13612.5	13653.6	12518.5	11724.0	10456.7	9189.4
72.5°	2974.7	3123.7	3996.2	6078.2	9426.9	12916.1	12989.3	11987.9	10703.9	8857.3	6785.7
75°	1306.3	1403.8	1932.3	3502.5	6748.8	10686.5	10777.7	10261.1	8697.1	6436.8	4010.8
77.5°	556.4	584.2	792.4	1521.5	3815.2	7302.4	7427.7	7497.3	5900.7	3502.5	1694.9
80°	346.8	357.9	448.4	688.7	1785.4	4101.4	4236.4	4411.2	2930.1	1287.5	591.9
82.5°	211.0	223.5	298.0	416.4	929.6	1859.2	1923.9	2047.2	1137.1	556.4	306.4
85°	126.7	135.8	182.4	263.2	529.2	731.1	730.4	807.7	535.5	357.9	161.5
87.5°	60.6	67.5	97.5	136.5	266.7	274.4	256.9	291.1	325.2	234.7	81.5
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°	2073.0	2073.0	2073.0	2073.0	2073.0	2073.0	2073.0	2073.0	2073.0	2073.0	2073.0
2.5°	2071.6	2068.8	2059.7	2052.8	2051.4	2047.2	2043.7	2045.8	2048.6	2049.3	2049.3
5°	2070.9	2063.2	2051.4	2046.5	2052.8	2061.1	2071.6	2085.5	2093.9	2100.1	2104.3
7.5°	2104.3	2089.7	2076.4	2073.7	2086.2	2108.5	2132.1	2161.4	2181.6	2195.5	2198.3
10°	2160.0	2141.9	2128.7	2131.5	2153.7	2185.8	2219.2	2256.8	2287.4	2306.2	2307.6
12.5°	2224.1	2206.7	2194.1	2206.0	2242.9	2281.9	2316.7	2349.4	2377.3	2396.1	2396.1
15°	2297.9	2285.3	2270.7	2297.9	2348.0	2382.8	2397.4	2413.5	2428.8	2442.7	2439.9
17.5°	2368.9	2357.1	2349.4	2381.4	2433.7	2449.7	2439.9	2428.1	2428.1	2435.7	2437.1
20°	2430.2	2419.7	2424.6	2455.9	2483.1	2466.4	2430.2	2392.6	2377.3	2381.4	2385.6
22.5°	2483.8	2478.9	2493.5	2508.2	2488.7	2430.2	2363.3	2312.5	2293.7	2292.3	2293.7
25°	2546.5	2545.8	2563.9	2537.4	2451.1	2343.1	2253.3	2203.9	2193.4	2201.8	2215.7
27.5°	2624.5	2632.1	2641.2	2544.4	2374.5	2211.5	2120.3	2086.2	2096.6	2116.8	2130.1
30°	2724.0	2744.9	2725.4	2527.0	2264.5	2061.1	1974.1	1964.3	1992.9	2021.4	2035.4
32.5°	2820.8	2853.5	2806.2	2481.7	2122.4	1901.7	1834.1	1831.3	1866.2	1894.0	1913.5
35°	2898.8	2963.6	2866.8	2391.9	1958.1	1754.7	1705.3	1686.5	1699.0	1731.8	1754.0
37.5°	3000.5	3108.4	2908.6	2254.7	1779.8	1633.6	1575.8	1532.6	1521.5	1534.7	1545.8
40°	3186.4	3329.1	2928.0	2063.2	1605.7	1512.4	1453.9	1390.6	1346.7	1314.7	1315.4
42.5°	3490.0	3616.7	2915.5	1830.6	1444.9	1394.0	1327.9	1254.8	1183.8	1111.3	1105.8
45°	3983.0	4044.3	2877.9	1584.1	1303.5	1270.1	1208.1	1135.0	1040.3	958.1	950.5
47.5°	4771.9	4636.1	2819.4	1369.0	1178.9	1165.0	1107.9	1023.6	923.3	857.2	851.6
50°	5847.7	5490.5	2790.9	1197.7	1068.9	1073.0	1026.4	937.3	842.6	793.8	788.2
52.5°	7134.6	6485.6	2845.9	1065.4	980.4	995.0	960.2	876.7	797.3	759.0	753.4
55°	8469.4	7516.1	2905.1	969.3	896.9	925.4	913.6	844.6	772.9	737.4	732.5
57.5°	9612.1	8285.6	2786.7	891.3	822.4	866.9	877.4	824.4	760.4	728.4	722.8
60°	10331.4	8595.4	2476.1	818.2	763.2	820.3	856.5	818.9	765.3	762.5	758.3
62.5°	10672.6	8568.3	2010.3	760.4	726.3	800.1	871.8	850.2	821.0	846.0	848.1
65°	10519.4	8158.8	1497.1	722.1	699.8	807.7	917.8	909.4	837.0	862.1	865.5
67.5°	9511.1	7181.9	1108.6	688.7	670.6	829.3	1001.3	928.9	805.6	823.8	812.6
70°	7687.4	5693.9	855.1	651.1	640.6	826.5	1038.9	917.1	771.5	775.7	745.8
72.5°	5301.1	3882.7	695.6	616.2	597.4	753.4	1012.5	887.8	743.0	710.9	671.3
75°	2882.8	2084.1	591.2	580.0	521.5	661.5	963.7	866.9	717.2	674.7	652.5
77.5°	1134.3	864.8	513.2	530.6	456.1	584.2	909.4	827.2	681.7	626.0	614.9
80°	463.1	441.5	425.5	458.9	392.0	511.1	843.9	780.6	639.2	580.7	558.5
82.5°	262.5	274.4	330.8	362.1	318.2	470.7	812.6	743.0	588.4	520.2	493.7
85°	134.4	160.9	230.5	259.7	234.0	400.4	748.5	650.4	472.1	398.3	400.4
87.5°	64.8	89.8	145.5	162.9	151.8	289.7	559.1	471.4	367.7	291.1	282.0
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)