

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: P383071

Luminaire Tested: **GLEON-SA4A-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383071
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-SA4A-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA 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: 17616.5 lumens
Efficiency: N/A
Efficacy: 136.6 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): 129
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

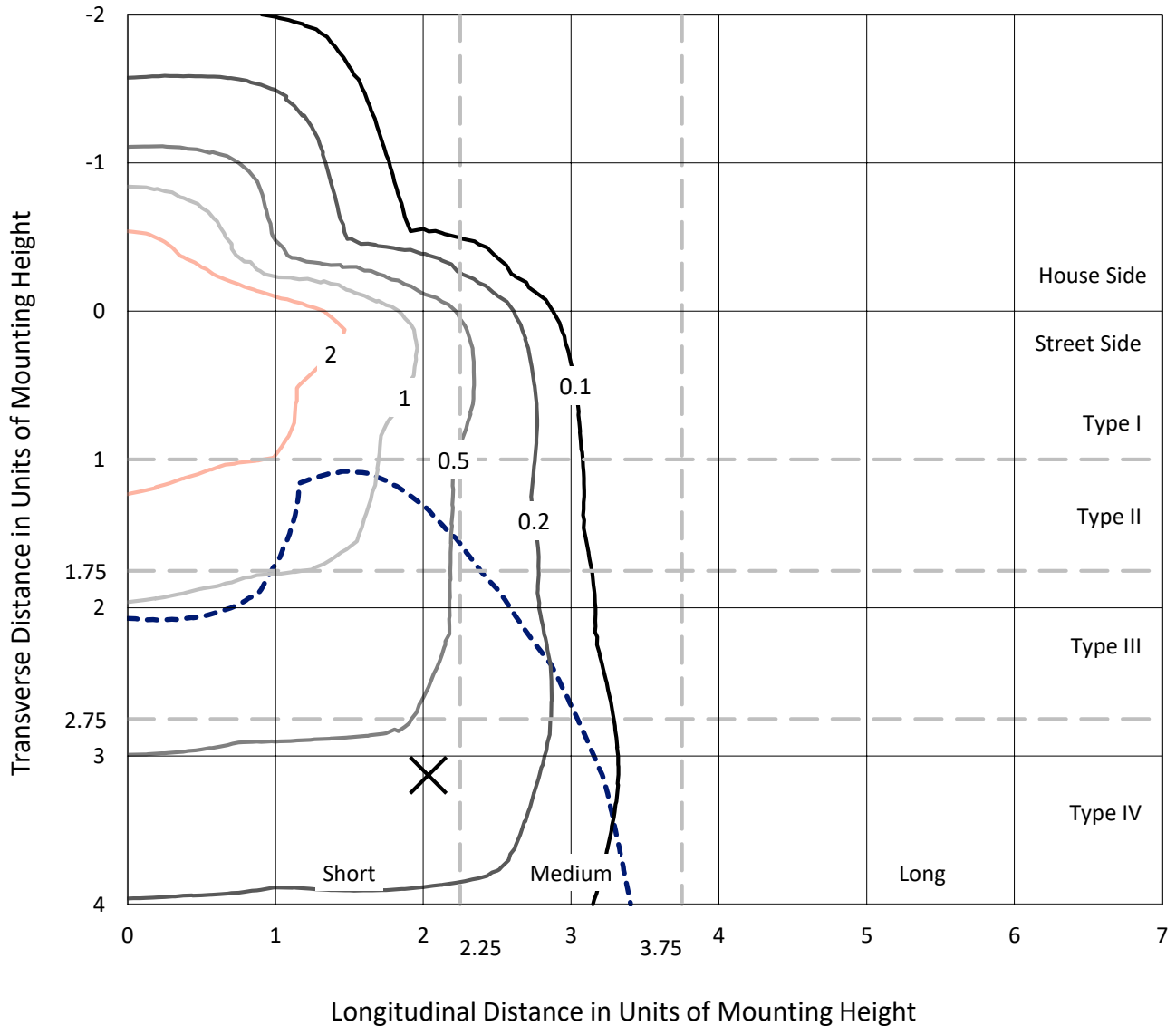




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Iso-Footcandle Lines of Horizontal Illumination

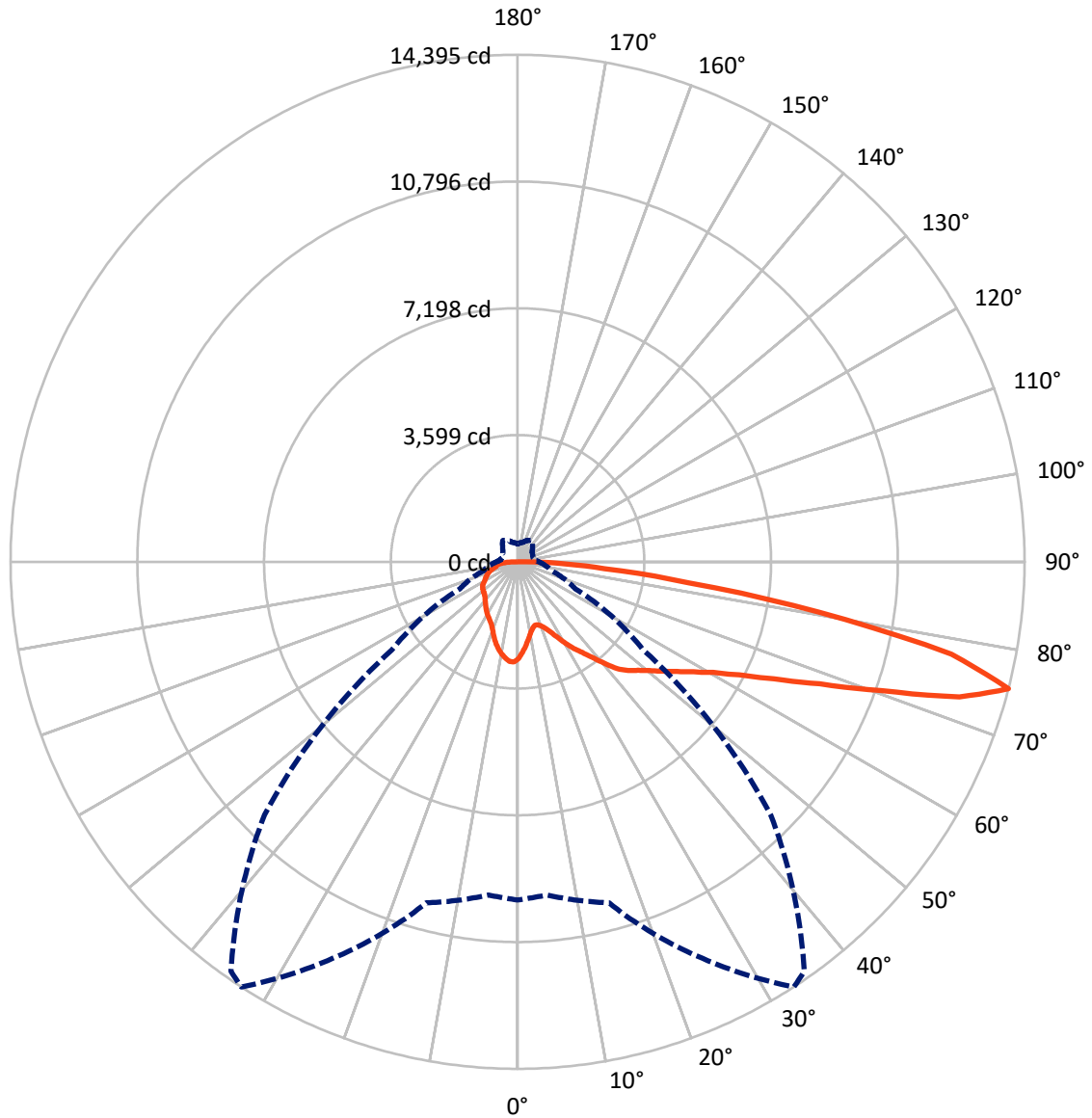
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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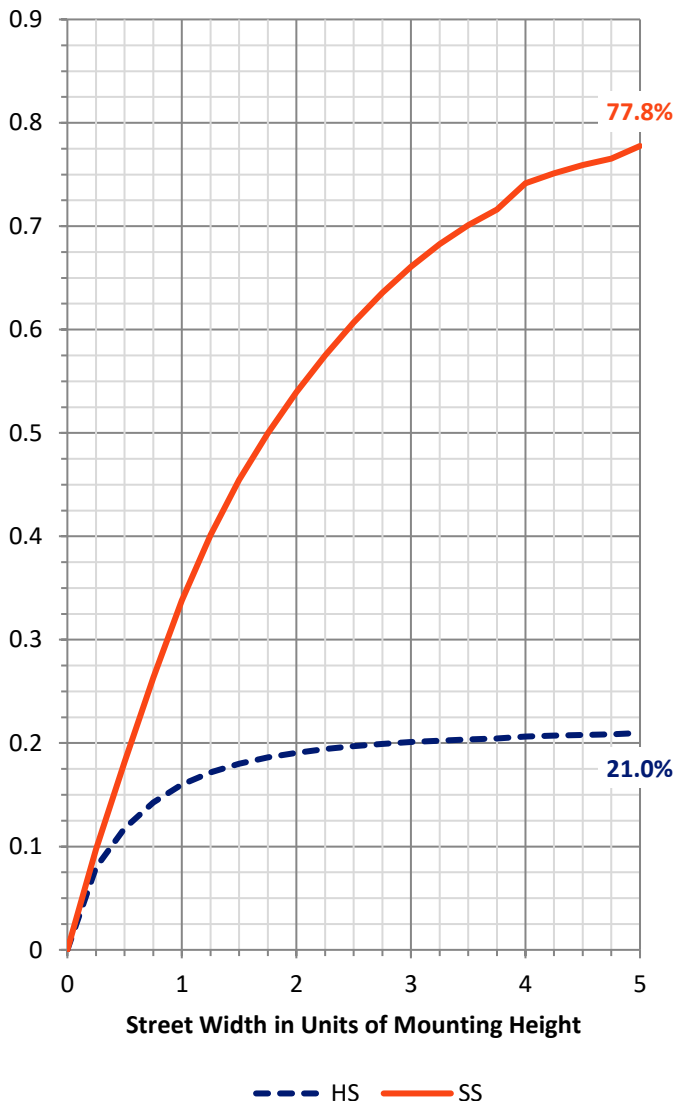
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3782.7	0.0	3782.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	13833.8	0.0	13833.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	17616.5	0.0	17616.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.0	1.4
10°-20°	674.5	3.8
20°-30°	1101.5	6.3
30°-40°	1640.4	9.3
40°-50°	2352.8	13.4
50°-60°	3230.0	18.3
60°-70°	4043.8	23.0
70°-80°	3658.2	20.8
80°-90°	666.4	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°	17616.5	100.0
0°-180°	17616.5	100.0

Coefficient of Utilization



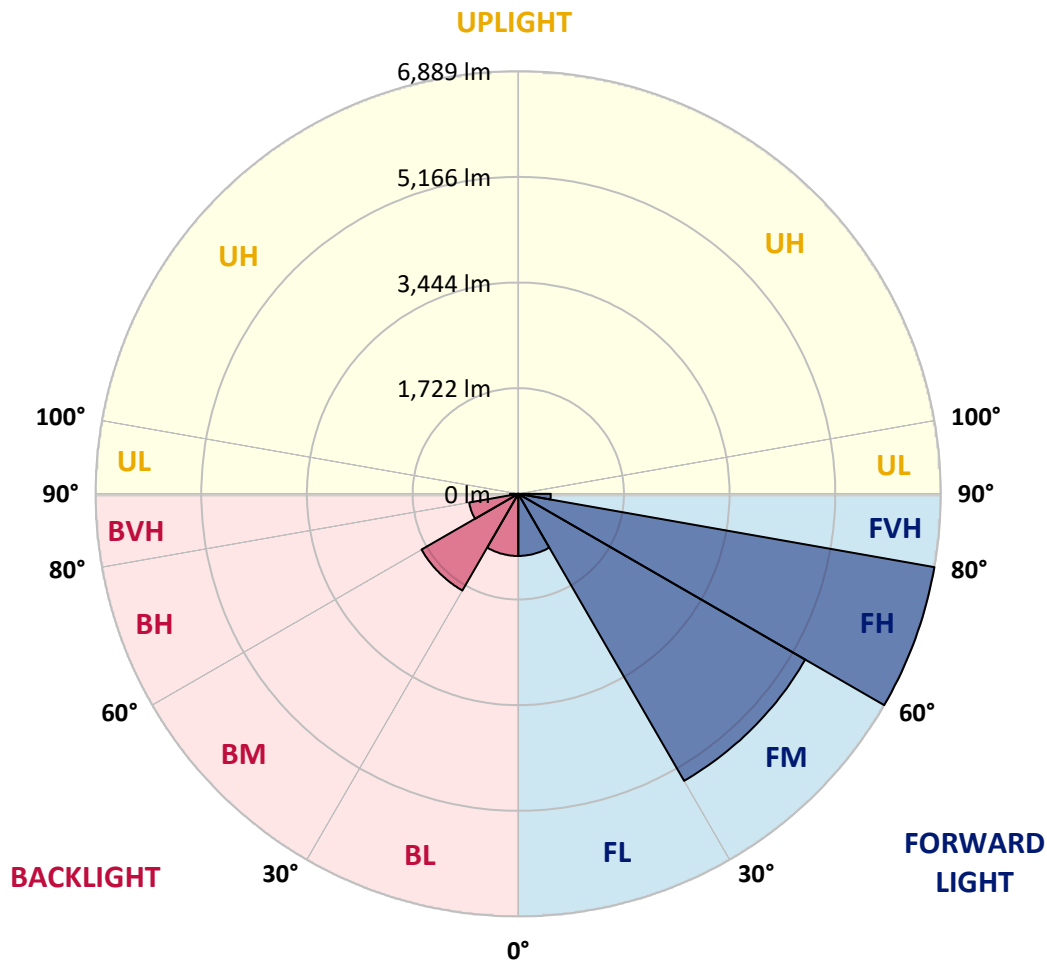
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1011.8	5.7			
FM (30°-60°)	5402.6	30.7			
FH (60°-80°)	6888.7	39.1			G3/7500
FVH (80°-90°)	530.7	3.0			G4/750
BL (0°-30°)	1013.2	5.8	B3/2500		
BM (30°-60°)	1820.5	10.3	B2/2500		
BH (60°-80°)	813.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	135.7	0.8			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°	33°	35°	45°	55°	65°	75°	85°
0°	2753.6	2753.6	2753.6	2753.6	2753.6	2753.6	2753.6	2753.6	2753.6	2753.6	2753.6
2.5°	2557.0	2547.2	2565.5	2568.0	2583.7	2589.9	2611.8	2645.9	2673.8	2706.1	2735.3
5°	2325.1	2318.4	2344.1	2362.3	2397.0	2411.6	2463.3	2535.7	2600.2	2673.3	2739.6
7.5°	2104.8	2101.2	2129.8	2171.2	2211.4	2231.4	2320.9	2426.2	2533.9	2651.9	2753.6
10°	1919.3	1918.1	1945.4	1986.2	2045.2	2067.8	2183.4	2322.2	2473.1	2635.5	2777.3
12.5°	1815.2	1819.5	1832.3	1866.4	1921.1	1943.6	2072.0	2235.1	2421.9	2630.0	2812.0
15°	1840.7	1847.4	1825.6	1824.3	1863.3	1881.0	2001.4	2173.0	2385.4	2639.2	2862.5
17.5°	1949.7	1950.9	1893.1	1856.6	1880.3	1889.5	1979.5	2137.7	2364.1	2659.8	2925.8
20°	2103.1	2100.0	1997.8	1937.0	1949.7	1952.2	2010.6	2138.4	2362.3	2695.7	3007.9
22.5°	2306.3	2283.8	2146.3	2063.5	2060.5	2056.8	2090.3	2183.4	2389.0	2754.1	3105.9
25°	2571.6	2550.3	2361.1	2247.9	2223.5	2214.4	2219.3	2279.5	2442.0	2816.8	3215.4
27.5°	2866.7	2829.6	2647.1	2487.0	2436.6	2423.7	2394.5	2415.2	2499.8	2877.1	3345.7
30°	3113.8	3093.8	2934.3	2744.4	2684.8	2666.6	2589.9	2567.3	2583.2	2959.2	3510.0
32.5°	3251.9	3238.5	3141.8	2988.4	2933.1	2907.5	2799.2	2754.1	2717.0	3088.8	3732.7
35°	3419.2	3410.8	3352.4	3240.9	3158.9	3132.0	3048.1	3001.3	2905.7	3267.1	4020.5
37.5°	3632.3	3623.2	3624.4	3534.3	3436.3	3411.3	3356.0	3306.7	3150.3	3501.4	4333.3
40°	3873.3	3855.6	3848.9	3844.6	3782.5	3768.6	3739.3	3672.4	3457.0	3781.3	4641.8
42.5°	4235.9	4173.2	4039.4	4089.9	4151.3	4144.0	4167.7	4071.6	3797.7	4112.4	4943.0
45°	4585.8	4483.0	4251.8	4262.7	4397.2	4438.0	4615.6	4547.4	4167.2	4475.1	5254.6
47.5°	4745.2	4667.3	4470.8	4471.4	4604.6	4689.2	5078.7	5030.1	4555.4	4887.0	5634.9
50°	4923.5	4845.6	4669.2	4735.5	4851.8	4941.8	5525.9	5501.1	4924.7	5338.0	6090.6
52.5°	5118.3	4986.2	4874.2	4992.9	5156.0	5260.6	5973.8	5905.7	5263.7	5791.9	6614.6
55°	5120.7	5084.8	5170.0	5257.0	5501.1	5629.4	6443.0	6262.9	5540.0	6237.9	7041.2
57.5°	5412.2	5353.8	5534.5	5574.7	5893.5	6038.4	6909.8	6573.8	5821.1	6579.9	7271.2
60°	5798.0	5748.1	5896.0	6001.9	6379.1	6572.6	7408.1	6893.4	6042.0	6837.9	7260.3
62.5°	6464.3	6407.7	6405.9	6554.4	7062.5	7287.7	7967.3	7206.7	6129.7	6889.1	6950.6
65°	7439.8	7349.7	7179.9	7250.5	8006.3	8230.9	8592.3	7433.7	6014.0	6615.2	6152.8
67.5°	8389.1	8386.1	8177.3	8322.2	9252.6	9432.7	9304.3	7456.2	5653.2	5661.7	4737.3
70°	9335.3	9347.5	9312.2	9816.1	10936.4	11123.8	10062.5	7153.7	4842.0	4088.7	2838.1
72.5°	10085.0	10082.0	10259.7	11558.8	13121.5	13079.6	10701.4	6237.4	3476.4	2207.1	1356.4
75°	9599.4	9493.5	10023.0	12421.7	14395.2	14190.1	10158.1	4350.9	1804.2	1004.7	730.2
77.5°	6261.1	6361.4	7138.5	10261.5	12591.5	12342.0	7452.6	2030.0	850.1	659.1	529.4
80°	2267.4	2373.2	3342.6	5812.6	8675.0	8634.3	3670.0	834.3	575.0	497.7	385.8
82.5°	780.1	819.1	1318.7	2581.3	4898.0	5080.6	1380.7	474.1	418.1	353.0	264.1
85°	306.1	350.5	603.1	1242.0	2470.6	2488.8	559.2	283.6	290.8	231.2	144.9
87.5°	116.3	141.2	288.4	576.9	1128.2	1036.3	200.2	135.1	165.5	137.5	68.7
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°	2753.6	2753.6	2753.6	2753.6	2753.6	2753.6	2753.6	2753.6	2753.6	2753.6	2753.6
2.5°	2757.8	2770.6	2797.3	2815.6	2835.1	2840.6	2843.0	2847.8	2852.8	2850.9	2851.6
5°	2774.9	2799.8	2843.0	2861.2	2869.8	2860.0	2841.2	2825.9	2815.0	2808.9	2807.1
7.5°	2802.8	2838.1	2884.4	2881.4	2861.9	2818.7	2770.0	2733.4	2703.1	2692.1	2686.0
10°	2840.0	2881.4	2913.6	2878.9	2822.3	2747.5	2674.5	2617.8	2572.2	2554.6	2551.5
12.5°	2887.4	2929.4	2935.5	2861.9	2768.2	2665.9	2566.8	2491.9	2423.7	2401.8	2397.0
15°	2948.9	2988.4	2950.7	2832.1	2701.2	2563.7	2435.3	2333.7	2261.9	2235.1	2225.4
17.5°	3013.4	3051.1	2953.8	2782.8	2613.6	2442.6	2281.4	2177.3	2095.1	2064.1	2060.5
20°	3090.7	3107.7	2941.0	2712.2	2493.1	2285.6	2115.8	2017.8	1974.0	1952.2	1949.7
22.5°	3186.2	3167.9	2911.7	2616.6	2340.3	2104.3	1966.1	1920.5	1909.6	1904.6	1906.5
25°	3287.2	3231.3	2868.6	2491.9	2147.5	1922.9	1856.6	1869.3	1884.0	1882.2	1882.2
27.5°	3398.6	3295.7	2802.3	2326.4	1933.9	1774.4	1782.3	1829.2	1851.1	1850.5	1849.9
30°	3541.6	3368.8	2717.7	2127.4	1734.3	1669.8	1717.9	1775.1	1804.9	1803.7	1804.2
32.5°	3717.4	3449.1	2602.7	1905.3	1590.1	1592.5	1647.9	1704.5	1739.2	1736.1	1736.7
35°	3923.1	3539.1	2446.9	1686.2	1494.5	1531.0	1574.9	1614.4	1647.3	1643.0	1638.8
37.5°	4147.1	3627.4	2240.0	1490.3	1416.6	1473.8	1510.3	1517.0	1532.2	1521.3	1513.4
40°	4360.0	3695.0	1973.4	1329.6	1338.2	1425.2	1448.9	1422.1	1394.7	1391.1	1380.1
42.5°	4545.7	3717.4	1703.9	1201.2	1255.4	1374.0	1388.7	1332.7	1283.4	1260.3	1250.5
45°	4741.6	3725.4	1452.6	1093.5	1175.7	1328.4	1344.2	1269.4	1200.0	1150.1	1133.7
47.5°	4997.8	3782.5	1257.2	1013.8	1114.8	1298.0	1320.5	1218.8	1128.8	1057.6	1042.4
50°	5333.1	3895.7	1098.4	953.0	1075.3	1277.9	1303.4	1169.6	1070.3	984.6	969.4
52.5°	5705.4	3999.8	970.0	903.7	1036.9	1242.6	1281.5	1134.3	1015.7	917.0	900.6
55°	5965.9	3920.0	866.5	852.6	987.0	1192.1	1251.2	1104.4	937.1	851.3	836.7
57.5°	6015.8	3647.5	788.0	799.6	926.8	1128.8	1204.3	1038.1	894.6	822.7	807.5
60°	5879.6	3267.8	729.6	750.9	862.2	1049.1	1116.6	991.3	853.8	792.3	779.5
62.5°	5536.9	2878.9	686.5	707.1	802.1	968.2	1061.9	942.0	812.4	757.6	744.9
65°	4845.1	2417.1	645.0	668.2	746.1	898.2	1012.6	896.3	771.6	729.6	717.5
67.5°	3657.3	1810.4	606.1	626.7	696.1	837.4	959.0	851.3	732.0	705.3	690.6
70°	2153.6	1133.7	561.6	583.6	643.8	774.0	901.8	802.1	682.7	670.6	651.7
72.5°	1002.3	682.2	511.1	532.5	578.1	689.4	828.2	737.5	624.3	597.6	572.0
75°	598.1	499.0	451.5	470.4	502.7	599.4	735.7	671.8	569.0	533.7	506.9
77.5°	447.2	381.6	385.8	405.9	432.1	524.6	651.7	620.0	526.3	499.0	480.8
80°	321.9	289.6	314.6	336.5	363.9	477.0	624.3	573.2	475.8	439.3	422.3
82.5°	214.8	208.1	236.7	259.2	286.0	417.4	586.6	502.0	406.5	360.2	322.5
85°	118.7	125.4	159.4	169.2	192.3	293.9	480.8	403.5	306.1	246.5	235.5
87.5°	49.3	57.8	85.8	82.7	102.2	175.2	316.4	243.4	194.7	145.4	113.2
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)