

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: P647967

Luminaire Tested: **GALN-SA5A-835-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647967  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-835-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 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: 17944.8 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

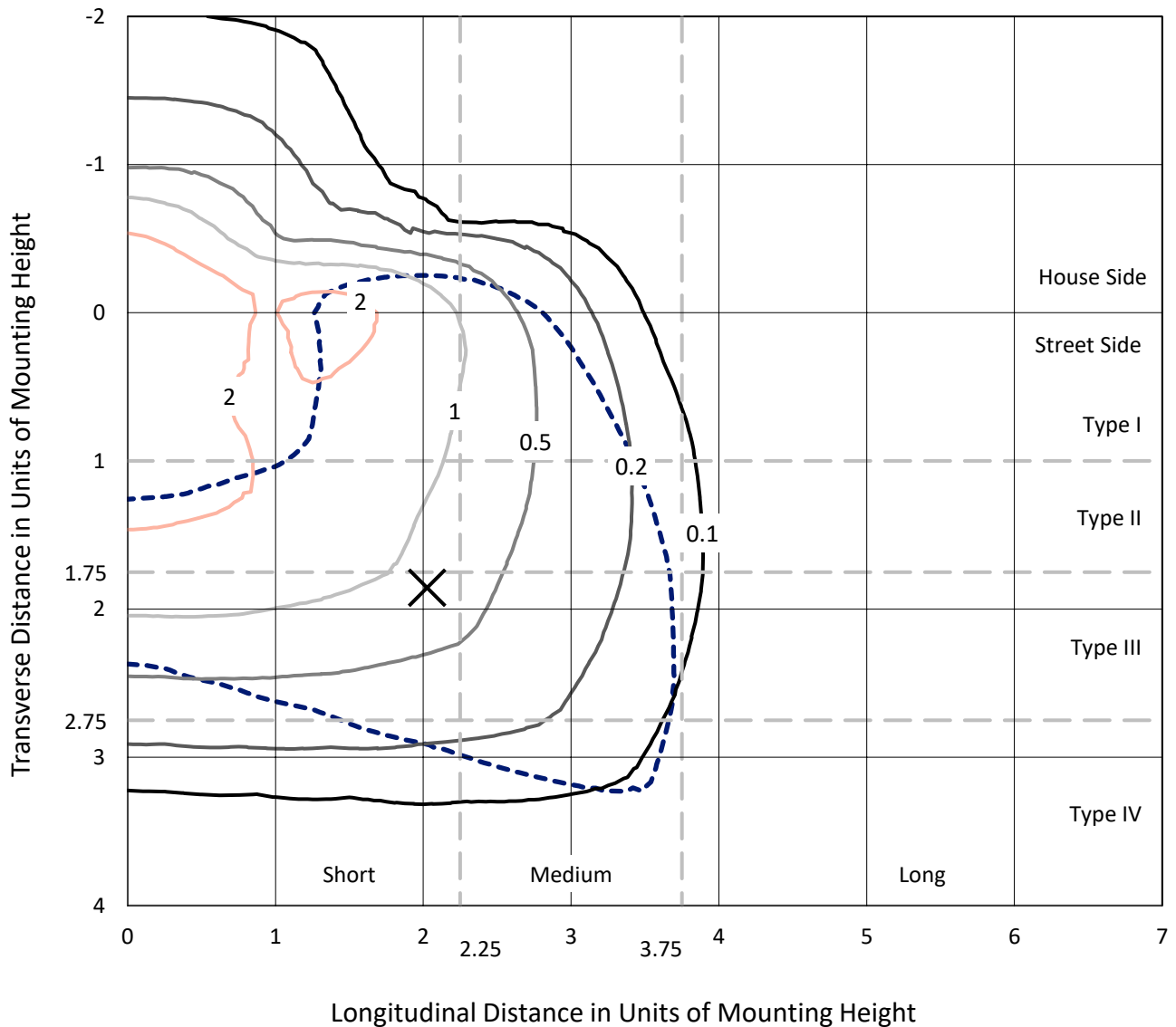
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

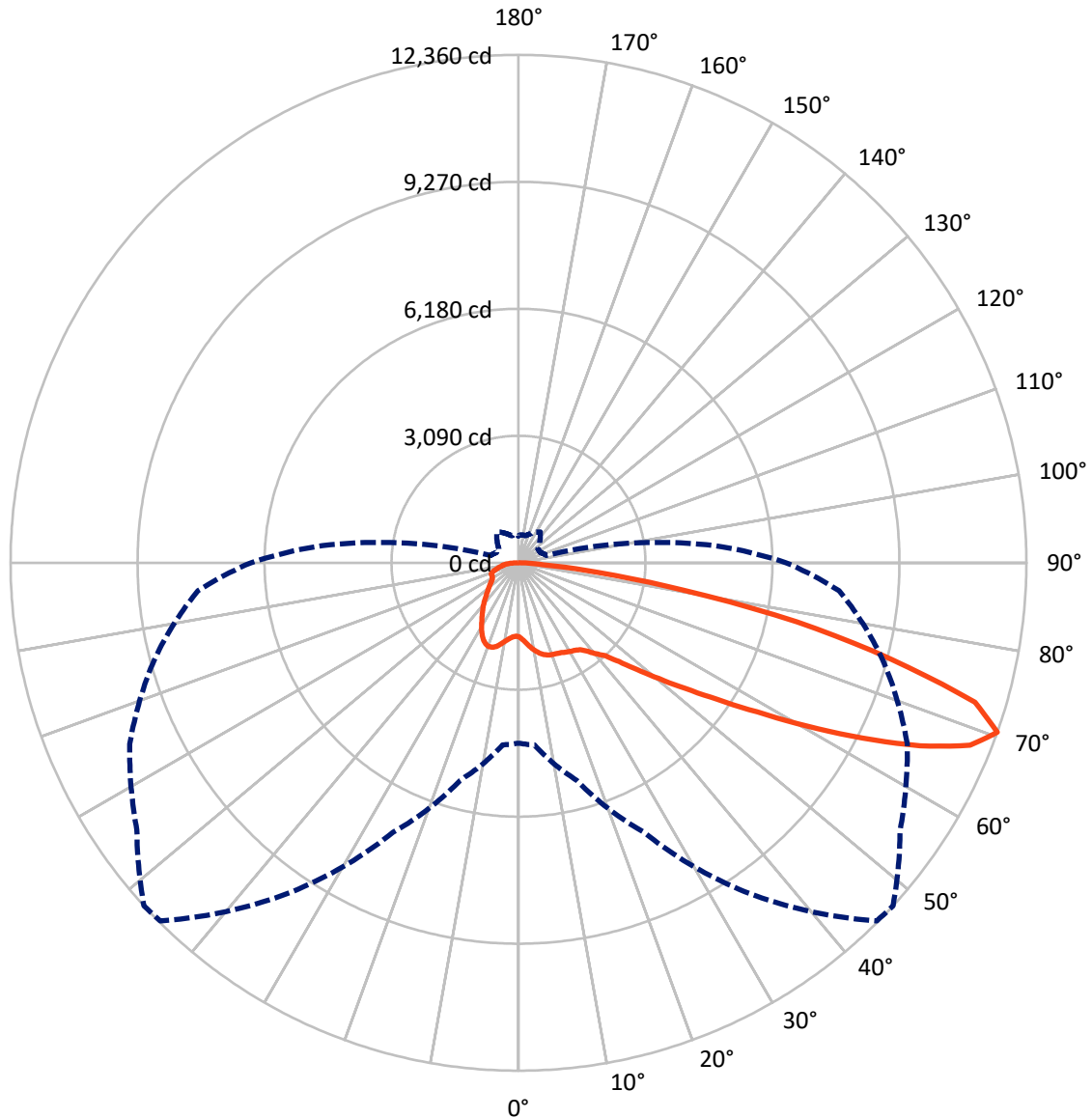
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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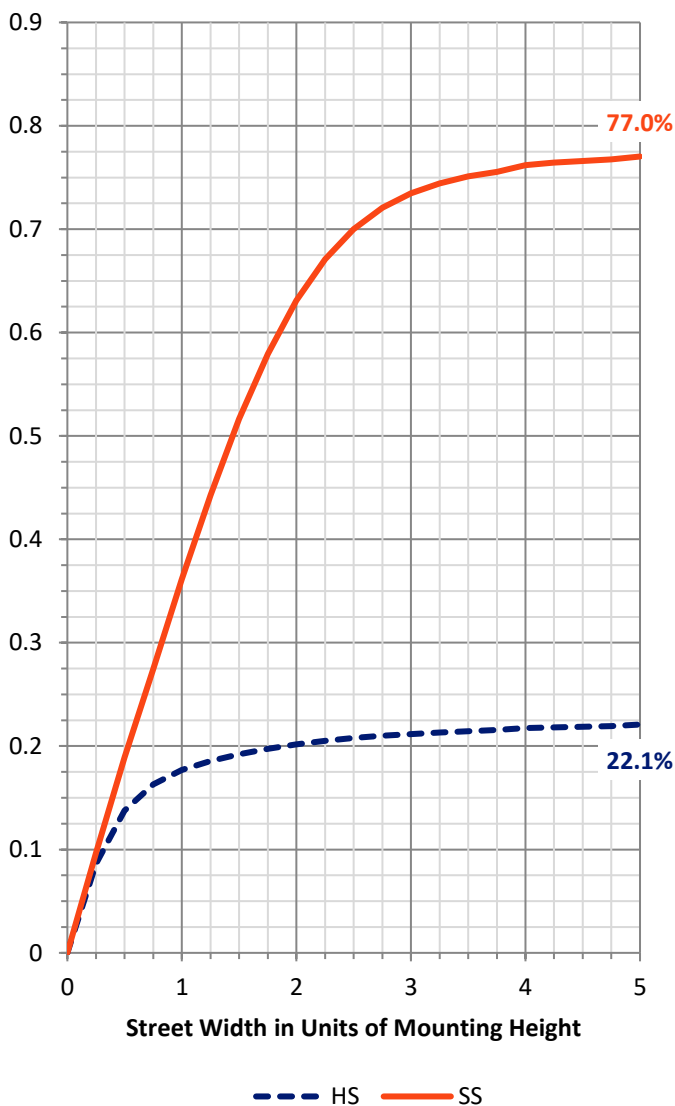
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4063.0	0.0	4063.0
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	13881.7	0.0	13881.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	17944.8	0.0	17944.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.7	1.0
10°-20°	620.8	3.5
20°-30°	1032.4	5.8
30°-40°	1463.2	8.2
40°-50°	2160.0	12.0
50°-60°	3741.2	20.8
60°-70°	5284.6	29.4
70°-80°	3037.9	16.9
80°-90°	419.2	2.3
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°	17944.8	100.0
0°-180°	17944.8	100.0

**Coefficient of Utilization**

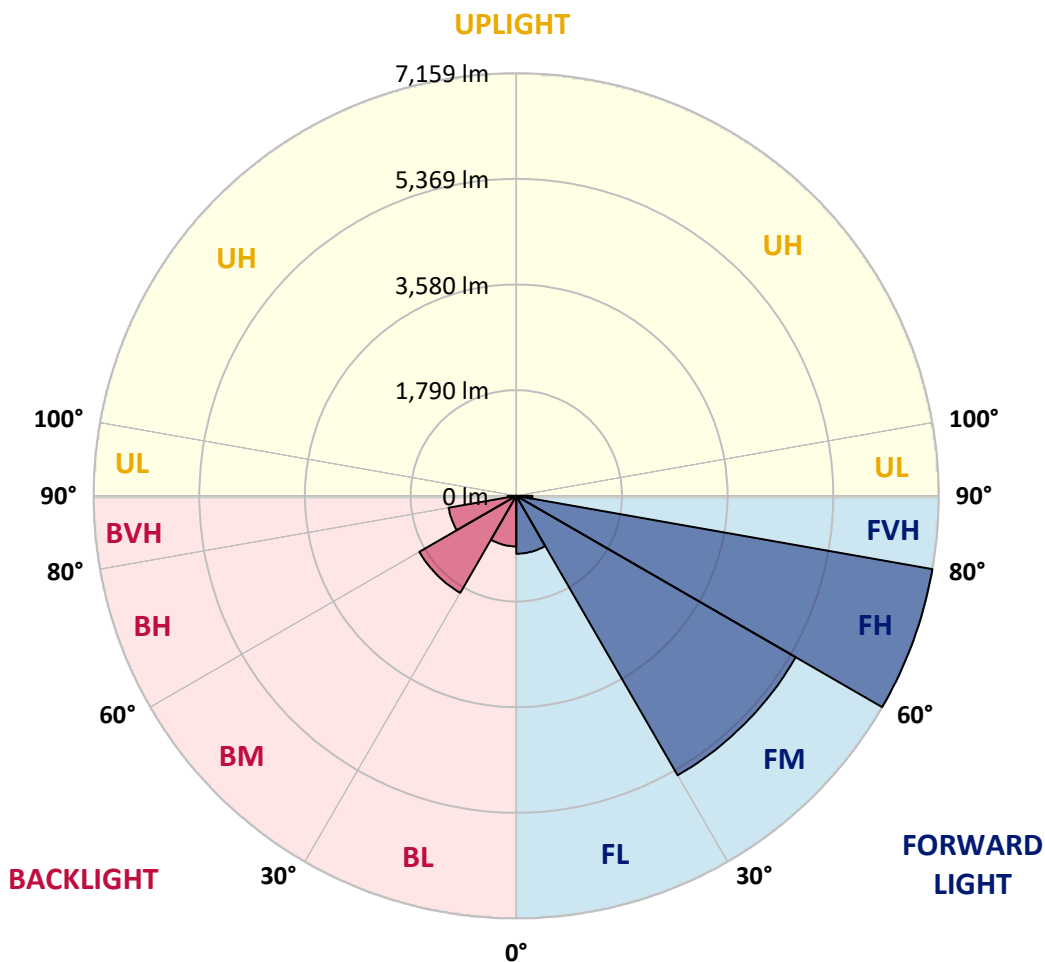


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.3	5.5			
FM (30°-60°)	5467.4	30.5			
FH (60°-80°)	7159.2	39.9			G3/7500
FVH (80°-90°)	273.8	1.5			G3/500
BL (0°-30°)	857.5	4.8	B2/1000		
BM (30°-60°)	1897.0	10.6	B2/2500		
BH (60°-80°)	1163.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	145.4	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-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1801.4	1801.4	1801.4	1801.4	1801.4	1801.4	1801.4	1801.4	1801.4	1801.4	1801.4
2.5°	1917.6	1910.9	1910.0	1895.6	1887.9	1873.5	1867.7	1854.2	1837.9	1821.6	1806.2
5°	2068.4	2068.4	2061.6	2041.5	2009.8	1977.2	1962.7	1936.8	1890.7	1853.3	1821.6
7.5°	2223.0	2224.9	2211.5	2181.7	2136.6	2083.7	2070.3	2031.9	1966.6	1911.9	1864.8
10°	2356.4	2356.4	2338.2	2297.9	2241.3	2183.6	2170.2	2126.9	2054.0	1985.8	1924.4
12.5°	2458.2	2458.2	2434.3	2381.4	2320.0	2268.1	2252.8	2211.5	2143.3	2067.4	1989.7
15°	2524.5	2519.7	2492.8	2433.3	2373.7	2328.6	2318.1	2283.5	2221.1	2144.2	2056.9
17.5°	2527.4	2525.5	2499.6	2449.6	2397.8	2367.0	2360.3	2337.3	2288.3	2215.3	2123.1
20°	2471.7	2475.5	2458.2	2422.8	2397.8	2384.3	2381.4	2373.7	2339.2	2271.0	2178.9
22.5°	2412.2	2418.9	2402.6	2383.4	2381.4	2394.9	2396.8	2398.7	2376.6	2310.4	2225.9
25°	2397.8	2402.6	2386.3	2369.0	2379.5	2415.0	2422.8	2430.4	2413.1	2357.5	2281.6
27.5°	2470.8	2466.9	2435.2	2397.8	2404.5	2452.5	2463.1	2471.7	2463.1	2415.0	2350.7
30°	2677.2	2664.7	2601.4	2491.9	2457.3	2490.9	2501.5	2525.5	2525.5	2489.9	2425.6
32.5°	3022.8	2998.9	2882.7	2667.6	2547.6	2527.4	2537.9	2577.3	2597.5	2569.6	2499.6
35°	3442.5	3417.6	3251.4	2962.4	2712.7	2600.3	2597.5	2641.7	2695.5	2633.0	2541.8
37.5°	3864.1	3838.1	3638.4	3313.8	2953.7	2754.0	2736.7	2752.1	2775.1	2660.9	2600.3
40°	4285.6	4254.9	4080.1	3706.6	3248.5	2957.6	2912.4	2843.3	2833.8	2752.1	2713.7
42.5°	4703.3	4675.5	4587.1	4147.3	3602.0	3156.4	3087.2	2968.1	3004.6	2955.7	2922.1
45°	5124.9	5126.8	5032.7	4641.9	4028.3	3523.2	3430.0	3243.7	3330.2	3311.9	3331.1
47.5°	5498.5	5493.6	5460.0	5122.0	4557.4	3995.6	3875.6	3659.5	3807.4	3874.6	4021.6
50°	5860.4	5857.5	5859.5	5666.5	5171.9	4557.4	4424.9	4198.2	4531.5	4764.8	5027.9
52.5°	6379.0	6395.3	6279.1	6228.2	5919.0	5220.9	5074.9	4840.7	5387.0	5754.8	6268.5
55°	6899.5	6886.0	6794.8	6847.6	6700.7	6006.4	5853.7	5667.4	6339.6	6741.9	7514.0
57.5°	7205.8	7210.6	7303.7	7562.1	7665.7	6985.8	6847.6	6703.6	7410.3	7695.5	8622.2
60°	7481.3	7503.4	7771.4	8259.2	8540.5	8189.1	8066.2	7926.0	8392.7	8506.0	9584.3
62.5°	7567.8	7636.0	8103.6	8833.4	9393.3	9546.9	9394.2	9085.0	9328.0	9283.8	10236.3
65°	7136.7	7229.8	8068.1	9048.5	10154.7	10835.5	10738.5	10164.3	10125.0	9859.0	10343.0
67.5°	6001.6	6094.7	7171.2	8597.2	10469.6	11951.3	11854.4	10951.7	10608.9	9912.7	9536.3
70°	4391.2	4449.9	5479.2	7238.4	9836.9	12325.8	12359.5	11335.8	10436.1	9182.0	7829.9
72.5°	2530.3	2659.9	3381.1	5092.2	8036.4	11379.0	11612.4	10536.9	9343.3	7659.9	5474.4
75°	1088.0	1090.9	1563.3	2808.8	5442.7	9146.5	9372.1	8734.5	7337.3	5296.8	2923.0
77.5°	517.6	527.2	687.6	1254.1	2996.0	6319.4	6928.2	6170.6	4692.8	2544.7	1104.3
80°	336.1	342.8	420.6	622.3	1469.2	3664.4	4088.7	3559.7	2070.3	909.4	476.3
82.5°	203.6	205.5	281.3	380.2	808.5	1659.3	1956.0	1545.0	883.5	544.5	280.4
85°	123.9	124.8	170.9	235.3	490.7	573.2	588.7	583.8	518.5	356.3	149.8
87.5°	59.5	61.5	88.3	111.4	193.0	177.7	168.0	195.0	244.8	192.1	64.4
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°	1801.4	1801.4	1801.4	1801.4	1801.4	1801.4	1801.4	1801.4	1801.4	1801.4	1801.4
2.5°	1799.5	1796.7	1789.9	1787.0	1785.1	1786.1	1785.1	1785.1	1786.1	1786.1	1786.1
5°	1808.2	1803.3	1792.8	1792.8	1798.6	1812.0	1824.5	1834.1	1844.7	1843.7	1843.7
7.5°	1845.6	1837.0	1824.5	1828.3	1842.7	1863.9	1885.9	1907.1	1928.2	1930.1	1929.2
10°	1900.3	1891.7	1878.3	1883.0	1906.1	1937.8	1965.6	1996.3	2019.4	2026.2	2024.2
12.5°	1962.7	1945.4	1933.9	1947.4	1983.9	2026.2	2053.0	2076.0	2092.4	2102.0	2098.1
15°	2026.2	2009.8	1996.3	2024.2	2068.4	2107.8	2121.2	2125.1	2128.0	2137.5	2135.6
17.5°	2087.6	2065.5	2060.7	2097.2	2139.5	2156.8	2149.0	2132.7	2120.3	2128.0	2126.9
20°	2142.4	2125.1	2123.1	2159.6	2176.0	2159.6	2126.9	2098.1	2076.0	2078.0	2077.1
22.5°	2194.2	2180.7	2182.7	2198.0	2172.1	2116.4	2062.7	2023.3	1999.2	2004.1	2006.9
25°	2251.8	2238.4	2243.1	2218.2	2132.7	2035.7	1958.0	1924.4	1914.7	1924.4	1931.1
27.5°	2326.7	2318.1	2315.2	2219.2	2062.7	1916.7	1828.3	1815.9	1824.5	1845.6	1856.2
30°	2407.3	2407.3	2392.0	2202.8	1966.6	1773.6	1696.8	1698.7	1728.5	1758.2	1768.8
32.5°	2485.2	2501.5	2453.5	2158.7	1842.7	1634.4	1575.8	1577.7	1603.7	1640.2	1649.7
35°	2549.4	2596.5	2506.3	2078.0	1696.8	1517.2	1473.1	1447.1	1448.1	1475.9	1483.6
37.5°	2637.8	2725.2	2537.0	1958.0	1541.2	1417.3	1367.4	1322.3	1292.5	1281.0	1281.0
40°	2791.5	2920.1	2544.7	1780.3	1394.3	1322.3	1251.2	1197.4	1139.8	1088.0	1078.3
42.5°	3051.7	3214.0	2529.3	1575.8	1261.8	1217.6	1148.5	1082.2	1002.5	929.5	923.8
45°	3512.6	3596.2	2488.1	1363.6	1143.6	1116.8	1049.5	977.6	893.0	827.7	822.9
47.5°	4251.1	4132.9	2433.3	1175.4	1036.1	1028.5	976.6	893.0	808.5	763.4	758.6
50°	5329.4	4978.0	2425.6	1039.0	949.7	953.5	911.3	834.4	760.5	723.1	717.3
52.5°	6627.7	5998.7	2476.5	943.0	873.8	888.2	867.1	796.1	730.8	699.1	693.3
55°	7887.6	6916.7	2507.2	868.0	802.8	829.7	832.6	773.0	713.5	681.8	677.9
57.5°	8910.2	7608.1	2370.8	799.9	741.3	782.6	803.7	759.6	704.9	680.8	677.0
60°	9621.7	7934.6	1982.9	739.4	696.2	745.2	793.2	760.5	725.9	728.8	730.8
62.5°	9848.4	7789.6	1487.5	694.3	665.5	732.7	810.5	799.9	764.4	786.4	790.3
65°	9473.0	7190.4	1078.3	658.7	638.5	741.3	862.3	828.7	750.9	767.3	767.3
67.5°	8215.9	6194.6	839.3	626.1	607.8	757.6	914.2	825.8	719.3	738.4	721.1
70°	6517.3	4791.6	699.1	589.6	575.2	733.7	918.9	796.1	681.8	685.6	652.9
72.5°	4325.0	3150.6	601.1	555.0	525.2	659.7	879.6	757.6	645.3	623.2	590.5
75°	2119.3	1571.0	524.3	511.8	459.9	574.3	825.8	721.1	605.9	571.4	553.1
77.5°	821.1	668.4	447.5	457.1	400.4	506.1	754.7	669.3	554.1	507.0	492.6
80°	398.5	379.3	366.8	381.2	329.3	431.1	689.4	624.1	506.1	454.2	433.1
82.5°	247.7	234.3	281.3	296.8	253.5	393.7	654.0	585.8	445.5	376.4	359.2
85°	125.8	134.4	188.2	202.6	181.5	313.0	538.7	439.8	321.7	266.9	268.9
87.5°	48.0	64.4	98.9	106.6	97.0	165.1	296.8	256.4	206.5	140.2	129.7
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)