

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: P651927

Luminaire Tested: **GALN-SA5A-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651927  
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-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 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: 19274 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

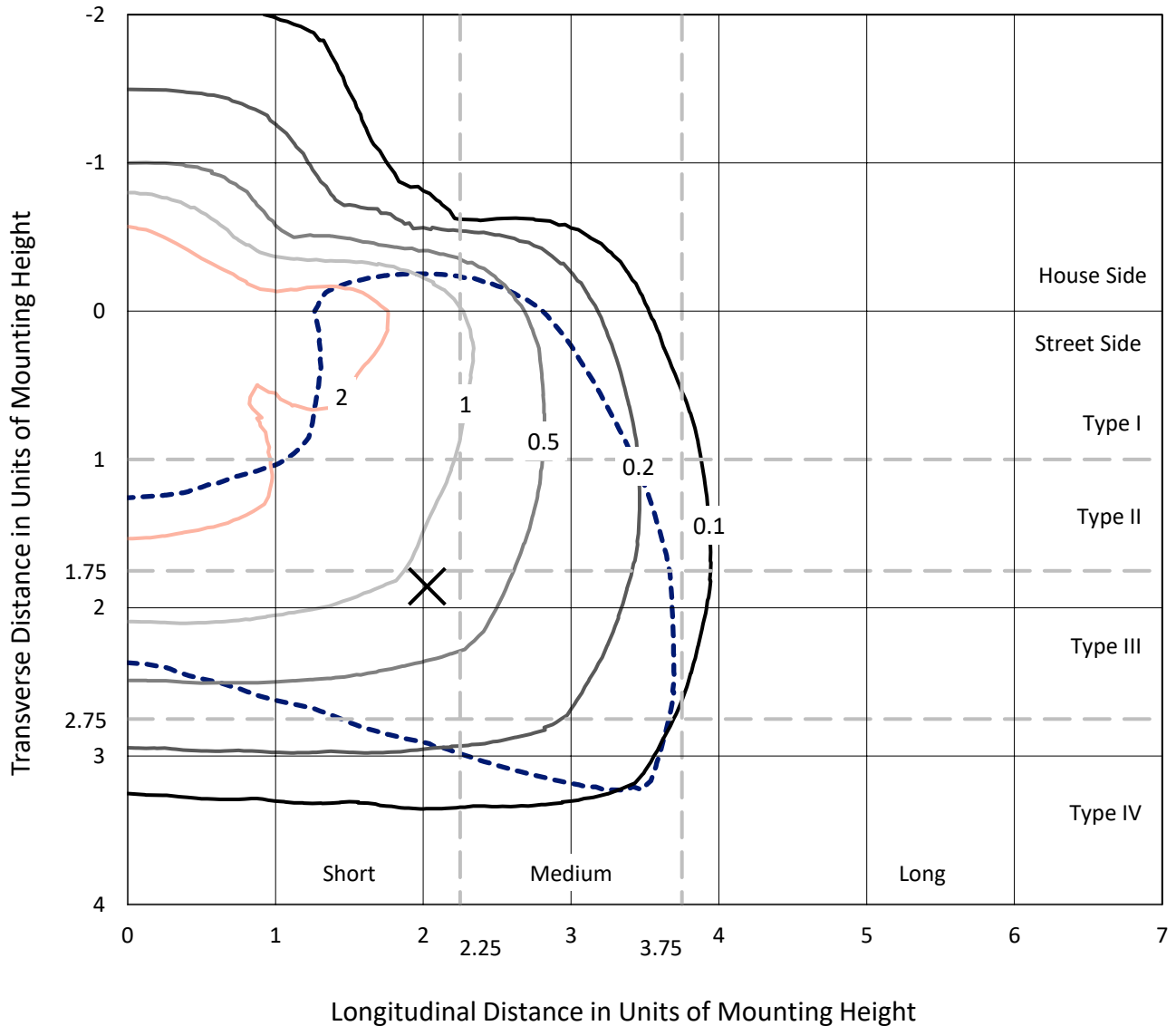
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651927  
 CATALOG NUMBER: GALN-SA5A-840-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

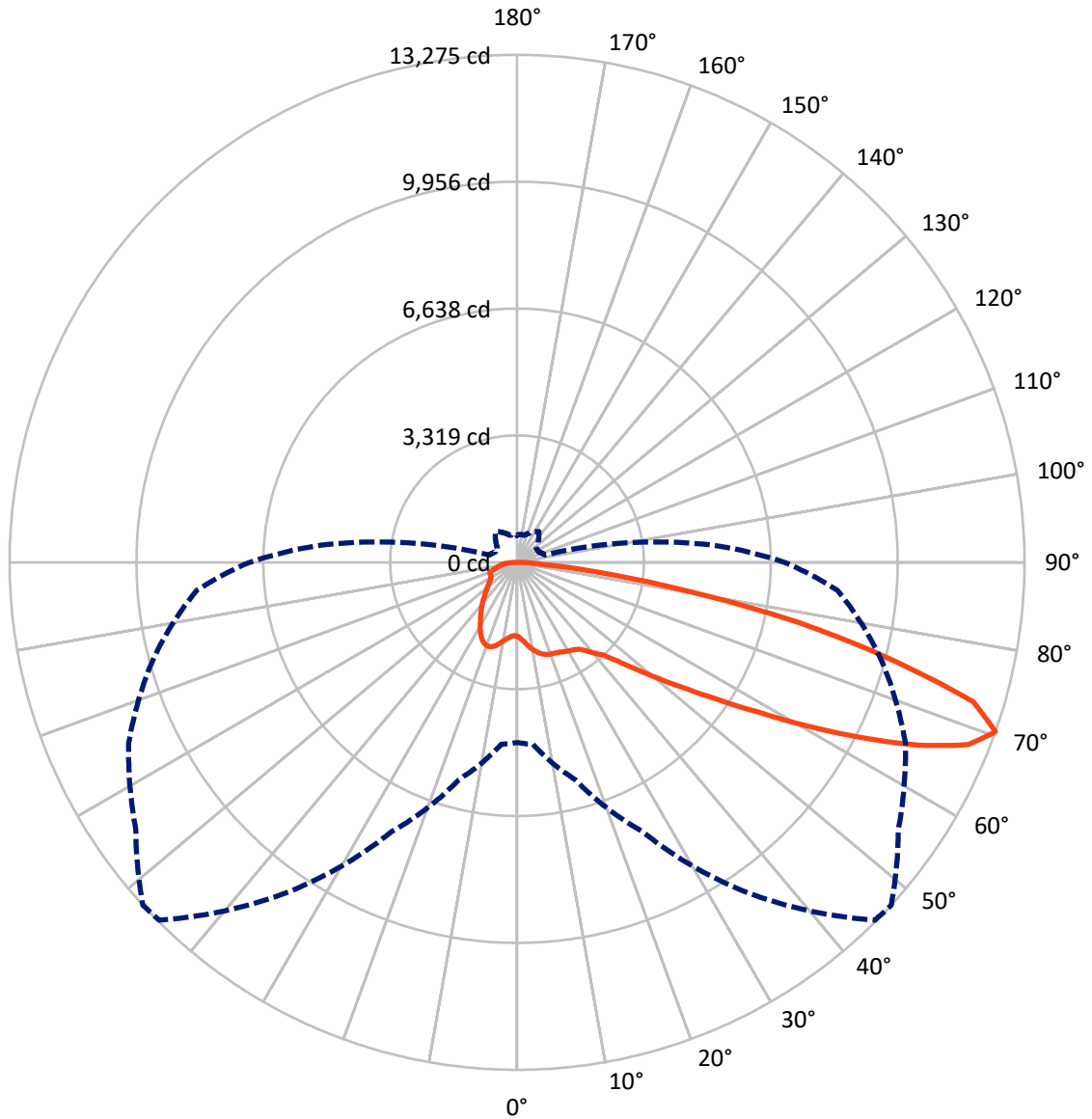
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P651927  
CATALOG NUMBER: GALN-SA5A-840-U-T4W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P651927  
 CATALOG NUMBER: GALN-SA5A-840-U-T4W

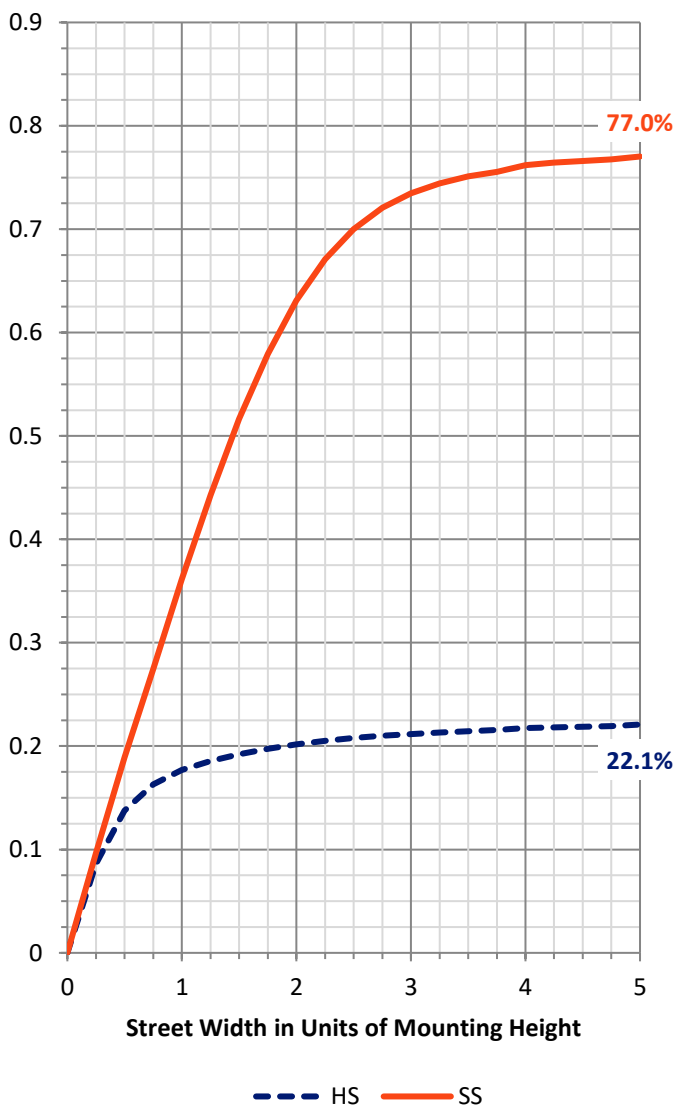
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4364.0	0.0	4364.0
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	14910.0	0.0	14910.0
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	19274.0	0.0	19274.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.4	1.0
10°-20°	666.8	3.5
20°-30°	1108.8	5.8
30°-40°	1571.6	8.2
40°-50°	2320.0	12.0
50°-60°	4018.3	20.8
60°-70°	5676.0	29.4
70°-80°	3262.9	16.9
80°-90°	450.2	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°	19274.0	100.0
0°-180°	19274.0	100.0

**Coefficient of Utilization**

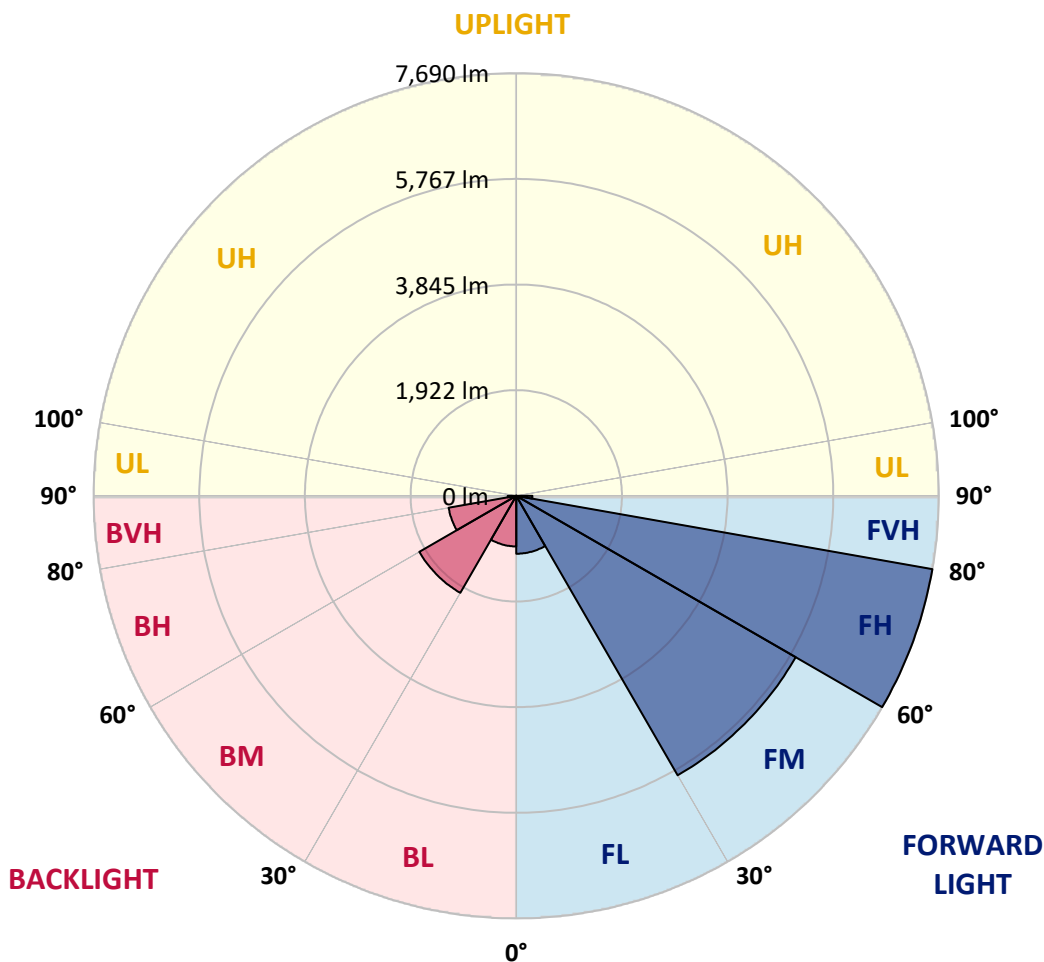


REPORT NUMBER: P651927  
 CATALOG NUMBER: GALN-SA5A-840-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1054.0	5.5			
FM (30°-60°)	5872.4	30.5			
FH (60°-80°)	7689.5	39.9			G4/12000
FVH (80°-90°)	294.1	1.5			G3/500
BL (0°-30°)	921.1	4.8	B2/1000		
BM (30°-60°)	2037.5	10.6	B2/2500		
BH (60°-80°)	1249.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	156.1	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





REPORT NUMBER: P651927

CATALOG NUMBER: GALN-SA5A-840-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1934.9	1934.9	1934.9	1934.9	1934.9	1934.9	1934.9	1934.9	1934.9	1934.9	1934.9
2.5°	2059.7	2052.5	2051.5	2036.0	2027.7	2012.3	2006.0	1991.6	1974.1	1956.5	1940.0
5°	2221.6	2221.6	2214.4	2192.7	2158.7	2123.6	2108.1	2080.3	2030.8	1990.6	1956.5
7.5°	2387.7	2389.7	2375.3	2343.3	2294.8	2238.1	2223.7	2182.4	2112.3	2053.5	2002.9
10°	2531.0	2531.0	2511.4	2468.1	2407.3	2345.4	2330.9	2284.5	2206.1	2132.9	2066.9
12.5°	2640.3	2640.3	2614.6	2557.8	2491.8	2436.1	2419.6	2375.3	2302.1	2220.6	2137.1
15°	2711.6	2706.3	2677.5	2613.6	2549.6	2501.1	2489.8	2452.6	2385.6	2303.1	2209.2
17.5°	2714.6	2712.6	2684.7	2631.1	2575.4	2542.3	2535.1	2510.4	2457.8	2379.4	2280.4
20°	2654.8	2658.9	2640.3	2602.2	2575.4	2560.9	2557.8	2549.6	2512.5	2439.2	2340.3
22.5°	2590.9	2598.1	2580.5	2559.9	2557.8	2572.3	2574.3	2576.4	2552.7	2481.5	2390.8
25°	2575.4	2580.5	2563.0	2544.4	2555.8	2593.9	2602.2	2610.5	2591.9	2532.1	2450.6
27.5°	2653.8	2649.7	2615.6	2575.4	2582.6	2634.2	2645.5	2654.8	2645.5	2593.9	2524.9
30°	2875.5	2862.1	2794.1	2676.5	2639.3	2675.4	2686.7	2712.6	2712.6	2674.4	2605.2
32.5°	3246.8	3221.0	3096.2	2865.2	2736.3	2714.6	2725.9	2768.2	2789.9	2760.0	2684.7
35°	3697.5	3670.7	3492.3	3181.8	2913.6	2793.0	2789.9	2837.4	2895.1	2828.0	2730.1
37.5°	4150.3	4122.4	3908.0	3559.3	3172.5	2958.0	2939.5	2955.9	2980.7	2858.0	2793.0
40°	4603.0	4570.1	4382.4	3981.1	3489.1	3176.7	3128.2	3053.9	3043.7	2955.9	2914.7
42.5°	5051.7	5021.9	4926.9	4454.5	3868.8	3390.2	3315.9	3188.0	3227.2	3174.6	3138.5
45°	5504.5	5506.6	5405.5	4985.7	4326.7	3784.2	3684.1	3484.0	3576.9	3557.3	3577.9
47.5°	5905.8	5900.5	5864.5	5501.4	4895.0	4291.6	4162.7	3930.6	4089.4	4161.6	4319.5
50°	6294.5	6291.4	6293.5	6086.2	5555.1	4895.0	4752.7	4509.2	4867.1	5117.7	5400.3
52.5°	6851.5	6869.0	6744.2	6689.6	6357.5	5607.6	5450.9	5199.2	5786.1	6181.1	6732.9
55°	7410.6	7396.1	7298.1	7354.8	7197.0	6451.3	6287.3	6087.2	6809.2	7241.3	8070.6
57.5°	7739.6	7744.7	7844.8	8122.2	8233.6	7503.3	7354.8	7200.1	7959.2	8265.5	9260.8
60°	8035.5	8059.2	8347.0	8871.0	9173.1	8795.7	8663.6	8513.1	9014.3	9136.0	10294.3
62.5°	8128.3	8201.6	8703.8	9487.7	10089.1	10254.1	10090.1	9758.0	10018.9	9971.5	10994.6
65°	7665.3	7765.3	8665.7	9718.8	10906.9	11638.2	11534.0	10917.2	10875.0	10589.3	11109.1
67.5°	6446.2	6546.2	7702.4	9234.0	11245.2	12836.6	12732.5	11763.0	11394.8	10647.0	10242.7
70°	4716.5	4779.5	5885.1	7774.6	10565.6	13238.9	13275.0	12175.5	11209.1	9862.2	8409.9
72.5°	2717.7	2857.0	3631.5	5469.4	8631.7	12221.9	12472.5	11317.4	10035.4	8227.3	5879.9
75°	1168.6	1171.7	1679.1	3016.8	5845.9	9824.0	10066.3	9381.5	7880.8	5689.1	3139.5
77.5°	555.9	566.2	738.5	1347.0	3217.9	6787.5	7441.4	6627.7	5040.4	2733.2	1186.1
80°	361.0	368.2	451.8	668.3	1578.1	3935.8	4391.6	3823.4	2223.7	976.7	511.6
82.5°	218.7	220.7	302.2	408.4	868.4	1782.2	2100.9	1659.5	948.9	584.8	301.2
85°	133.0	134.1	183.6	252.7	527.1	615.7	632.3	627.0	556.9	382.7	160.9
87.5°	63.9	66.0	94.9	119.7	207.3	190.8	180.5	209.4	263.0	206.3	69.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651927  
 CATALOG NUMBER: GALN-SA5A-840-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1934.9	1934.9	1934.9	1934.9	1934.9	1934.9	1934.9	1934.9	1934.9	1934.9	1934.9
2.5°	1932.8	1929.8	1922.5	1919.4	1917.3	1918.4	1917.3	1917.3	1918.4	1918.4	1918.4
5°	1942.1	1936.9	1925.6	1925.6	1931.8	1946.2	1959.6	1970.0	1981.3	1980.3	1980.3
7.5°	1982.3	1973.1	1959.6	1963.7	1979.2	2001.9	2025.6	2048.3	2071.0	2073.1	2072.1
10°	2041.1	2031.9	2017.4	2022.5	2047.3	2081.3	2111.2	2144.2	2169.0	2176.3	2174.2
12.5°	2108.1	2089.5	2077.2	2091.7	2130.8	2176.3	2205.1	2229.8	2247.4	2257.7	2253.5
15°	2176.3	2158.7	2144.2	2174.2	2221.6	2263.9	2278.4	2282.5	2285.6	2295.8	2293.8
17.5°	2242.3	2218.5	2213.3	2252.5	2297.9	2316.5	2308.2	2290.7	2277.3	2285.6	2284.5
20°	2301.1	2282.5	2280.4	2319.6	2337.1	2319.6	2284.5	2253.5	2229.8	2231.9	2230.9
22.5°	2356.7	2342.3	2344.4	2360.9	2333.0	2273.1	2215.4	2173.1	2147.3	2152.5	2155.6
25°	2418.6	2404.2	2409.3	2382.5	2290.7	2186.5	2103.0	2066.9	2056.6	2066.9	2074.2
27.5°	2499.0	2489.8	2486.7	2383.6	2215.4	2058.7	1963.7	1950.4	1959.6	1982.3	1993.7
30°	2585.7	2585.7	2569.2	2366.0	2112.3	1904.9	1822.4	1824.5	1856.5	1888.5	1899.8
32.5°	2669.2	2686.7	2635.2	2318.6	1979.2	1755.4	1692.5	1694.5	1722.5	1761.6	1771.9
35°	2738.3	2788.8	2692.0	2231.9	1822.4	1629.6	1582.2	1554.3	1555.3	1585.2	1593.5
37.5°	2833.2	2927.1	2724.9	2103.0	1655.3	1522.3	1468.7	1420.2	1388.2	1375.9	1375.9
40°	2998.2	3136.4	2733.2	1912.2	1497.6	1420.2	1343.9	1286.1	1224.2	1168.6	1158.2
42.5°	3277.7	3452.1	2716.7	1692.5	1355.3	1307.8	1233.6	1162.3	1076.7	998.4	992.2
45°	3772.8	3862.5	2672.4	1464.6	1228.4	1199.5	1127.3	1050.0	959.2	889.0	883.9
47.5°	4566.0	4439.1	2613.6	1262.4	1112.9	1104.7	1048.9	959.2	868.4	820.0	814.8
50°	5724.2	5346.7	2605.2	1115.9	1020.0	1024.2	978.8	896.3	816.9	776.7	770.4
52.5°	7118.6	6443.1	2659.9	1012.8	938.6	954.0	931.3	855.0	784.9	750.8	744.6
55°	8471.8	7429.1	2693.0	932.3	862.3	891.1	894.2	830.2	766.3	732.3	728.1
57.5°	9570.2	8171.7	2546.5	859.2	796.3	840.6	863.3	815.9	757.1	731.2	727.1
60°	10334.5	8522.4	2129.8	794.2	747.7	800.4	851.9	816.9	779.7	782.8	784.9
62.5°	10577.9	8366.6	1597.6	745.7	714.8	786.9	870.5	859.2	821.0	844.7	848.8
65°	10174.7	7723.0	1158.2	707.5	685.8	796.3	926.2	890.1	806.5	824.1	824.1
67.5°	8824.5	6653.5	901.5	672.5	652.9	813.8	981.9	887.0	772.5	793.1	774.6
70°	7000.1	5146.6	750.8	633.3	617.8	788.0	987.0	855.0	732.3	736.4	701.3
72.5°	4645.3	3384.0	645.6	596.1	564.1	708.5	944.8	813.8	693.1	669.4	634.3
75°	2276.3	1687.4	563.1	549.8	494.0	616.8	887.0	774.6	650.8	613.7	594.1
77.5°	881.9	717.9	480.6	491.0	430.1	543.5	810.6	718.9	595.1	544.5	529.1
80°	428.0	407.4	394.0	409.5	353.7	463.1	740.5	670.4	543.5	487.9	465.2
82.5°	266.1	251.6	302.2	318.7	272.3	422.9	702.4	629.2	478.5	404.3	385.8
85°	135.1	144.4	202.2	217.7	194.9	336.2	578.6	472.4	345.5	286.7	288.8
87.5°	51.6	69.1	106.2	114.5	104.2	177.4	318.7	275.3	221.8	150.6	139.3
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)