

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: P646802

Luminaire Tested: **GALN-SA2C-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9438.3 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

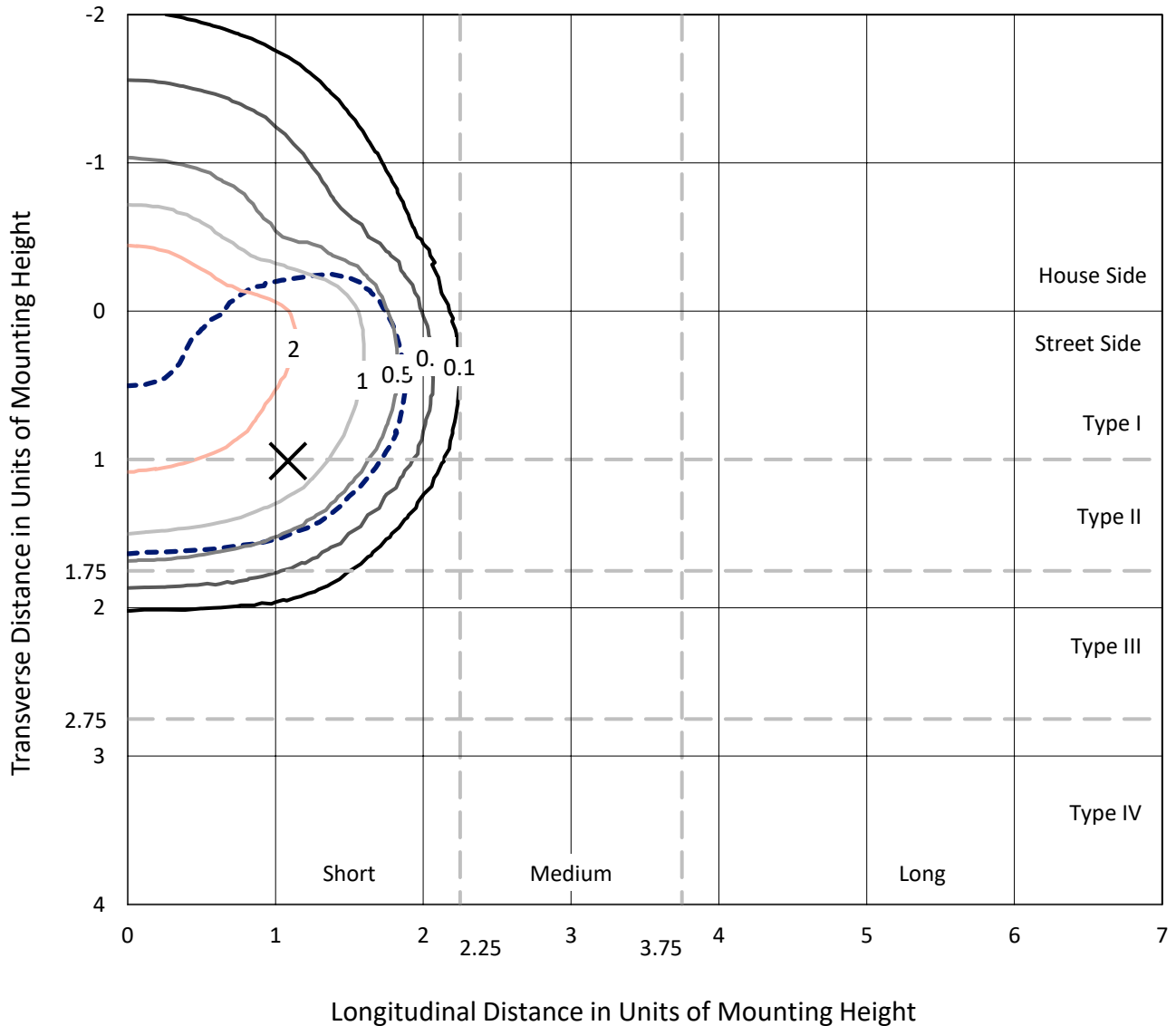
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646802
 CATALOG NUMBER: GALN-SA2C-835-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

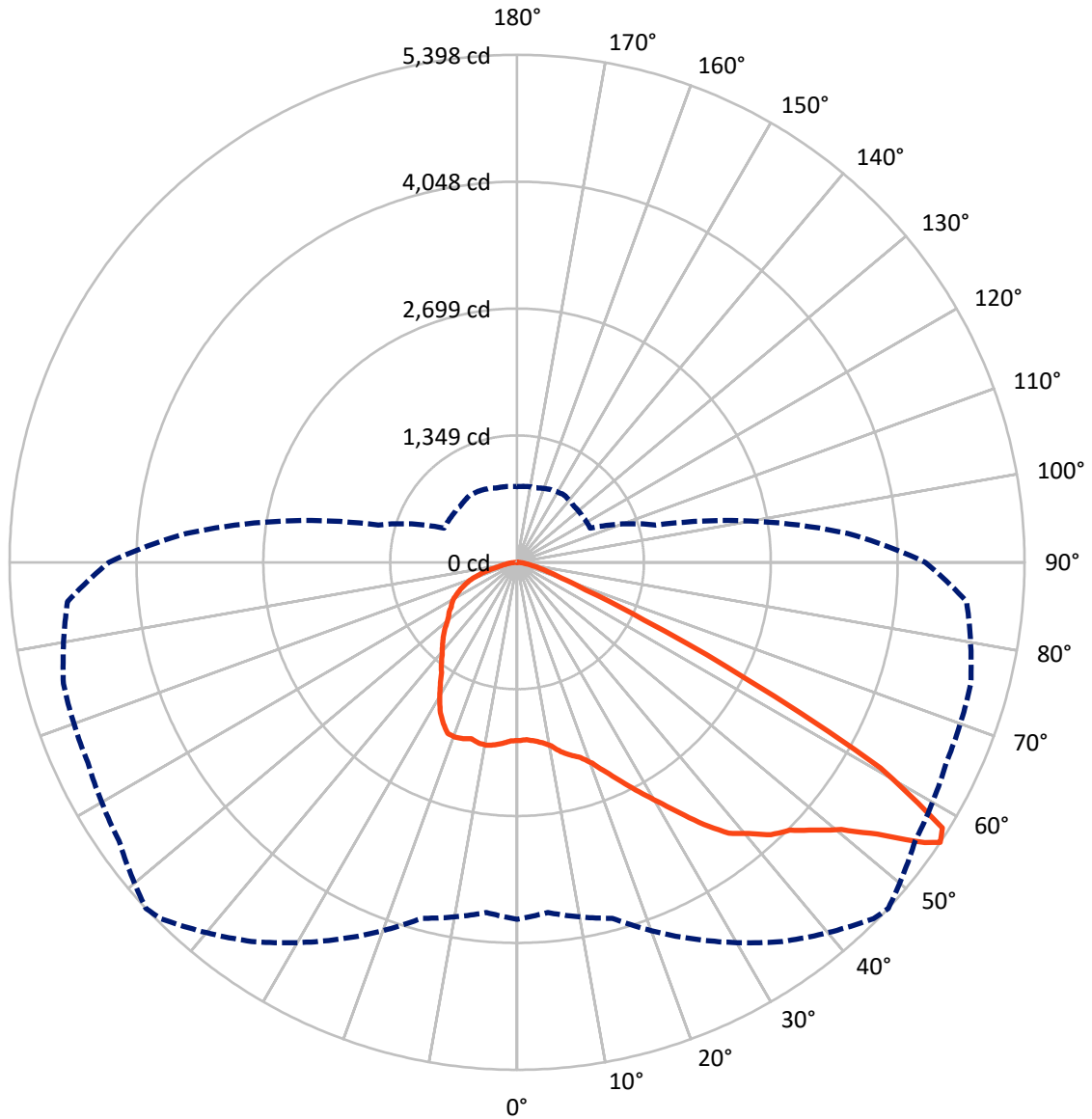
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

REPORT NUMBER: P646802
CATALOG NUMBER: GALN-SA2C-835-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P646802
 CATALOG NUMBER: GALN-SA2C-835-U-T3-GRSWH

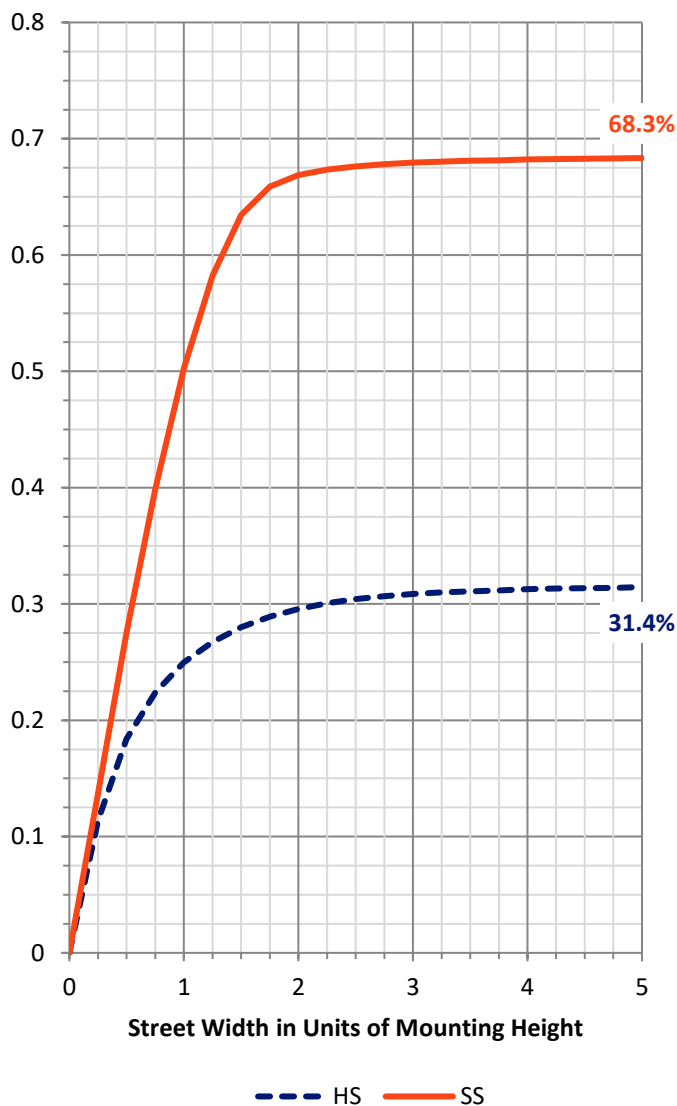
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2990.9	0.0	2990.9
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	6447.4	0.0	6447.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	9438.3	0.0	9438.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	2.0
10°-20°	582.7	6.2
20°-30°	1030.1	10.9
30°-40°	1547.2	16.4
40°-50°	2123.4	22.5
50°-60°	2529.7	26.8
60°-70°	1082.6	11.5
70°-80°	306.4	3.2
80°-90°	51.6	0.5
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°	9438.3	100.0
0°-180°	9438.3	100.0

Coefficient of Utilization



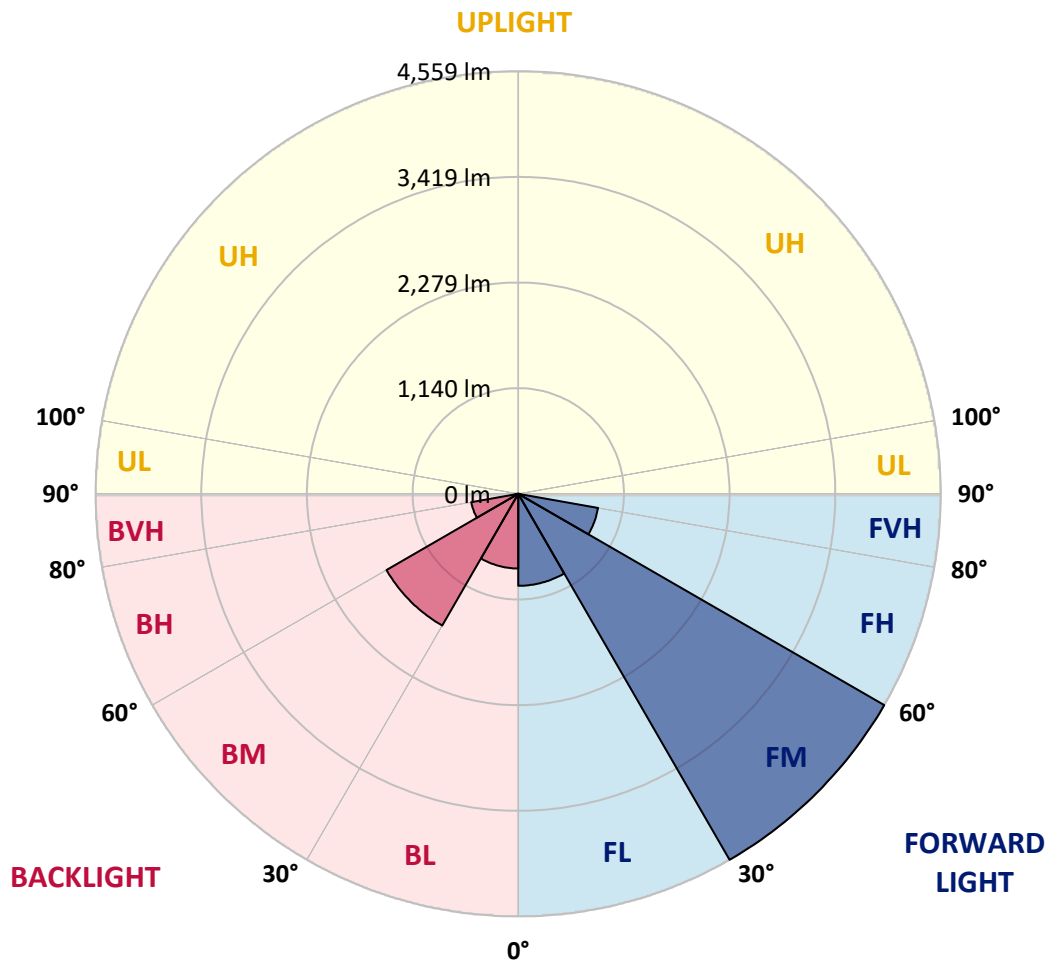
REPORT NUMBER: P646802
 CATALOG NUMBER: GALN-SA2C-835-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	992.3	10.5			
FM (30°-60°)	4558.9	48.3			
FH (60°-80°)	874.3	9.3			G1/1800
FVH (80°-90°)	21.9	0.2			G1/100
BL (0°-30°)	805.3	8.5	B2/1000		
BM (30°-60°)	1641.3	17.4	B2/2500		
BH (60°-80°)	514.6	5.5	B2/1000		G2/1000
BVH (80°-90°)	29.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P646802

CATALOG NUMBER: GALN-SA2C-835-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9
2.5°	1888.7	1885.0	1882.6	1901.9	1894.6	1895.9	1888.7	1895.9	1900.7	1889.8	1905.5
5°	1885.0	1895.9	1886.2	1892.3	1907.9	1903.1	1907.9	1922.3	1918.7	1915.1	1910.3
7.5°	1918.7	1919.9	1927.2	1929.5	1934.4	1929.5	1936.8	1950.1	1946.4	1925.9	1928.4
10°	1966.9	1969.3	1970.5	1983.7	1992.2	1993.4	1984.9	1972.9	1971.7	1999.4	1980.1
12.5°	2022.3	2016.2	2030.7	2035.5	2045.1	2055.9	2066.8	2041.5	2057.2	2058.4	2035.5
15°	2102.9	2108.9	2092.1	2092.1	2095.7	2096.9	2126.9	2115.0	2112.5	2099.3	2108.9
17.5°	2223.3	2182.4	2181.1	2164.3	2161.9	2171.5	2182.4	2192.0	2224.5	2198.0	2146.2
20°	2311.2	2320.8	2285.9	2265.4	2269.1	2290.7	2279.9	2323.2	2346.0	2302.7	2252.1
22.5°	2466.5	2434.0	2442.3	2396.6	2400.2	2423.1	2421.9	2466.5	2479.7	2411.1	2337.6
25°	2571.1	2562.8	2570.0	2533.9	2538.6	2556.7	2585.6	2659.0	2637.4	2561.5	2391.8
27.5°	2724.1	2707.1	2701.2	2687.9	2683.1	2731.3	2764.9	2843.2	2827.6	2716.8	2488.1
30°	2880.5	2869.7	2875.7	2821.5	2840.8	2943.1	2952.8	3059.9	3052.6	2857.6	2595.3
32.5°	2988.9	2994.9	3005.7	2975.6	3061.1	3142.9	3175.5	3297.0	3303.0	3099.6	2802.3
35°	3163.4	3142.9	3148.9	3183.8	3223.5	3372.9	3425.8	3506.4	3557.0	3353.6	3000.8
37.5°	3272.9	3294.6	3269.3	3324.7	3428.2	3607.6	3655.7	3738.7	3791.8	3603.9	3271.7
40°	3443.9	3408.9	3427.0	3466.7	3572.7	3806.2	3792.9	3878.4	3895.3	3817.0	3524.5
42.5°	3628.0	3611.2	3585.9	3676.2	3765.2	3935.0	3961.4	3921.7	4007.2	4025.2	3885.6
45°	3848.3	3868.8	3872.4	3874.8	3953.1	4101.1	4064.9	4030.1	4128.8	4260.0	4109.5
47.5°	4053.0	3987.9	4034.9	4099.9	4210.7	4211.8	4254.0	4170.9	4275.6	4392.4	4311.7
50°	4121.6	4090.2	4152.9	4275.6	4446.6	4464.6	4469.4	4351.4	4405.6	4498.3	4381.6
52.5°	4095.1	4084.2	4244.3	4434.5	4684.9	4776.4	4800.4	4654.8	4684.9	4642.8	4535.6
55°	3968.7	4001.2	4162.5	4550.1	4934.1	5217.0	5262.7	5078.5	4887.1	4919.6	4801.7
56°	3795.4	3738.7	3919.3	4418.9	4923.2	5360.2	5397.5	5167.6	5037.6	4995.5	4799.2
57.5°	3219.9	3146.6	3383.7	3975.9	4650.0	5306.0	5333.7	5204.9	5012.3	4926.9	4448.9
60°	1885.0	1921.2	2222.1	2742.1	3587.1	4350.3	4443.0	4536.9	4408.1	4025.2	3311.5
62.5°	910.0	887.1	1102.6	1572.0	2186.0	2777.0	2749.3	3012.9	3157.4	2860.1	2090.8
65°	476.7	474.3	601.9	858.2	1201.3	1458.9	1484.2	1626.2	1824.9	1473.4	1061.7
67.5°	350.3	359.9	423.7	603.1	772.8	788.4	784.8	855.8	875.1	740.3	652.4
70°	274.4	279.3	326.2	458.6	575.3	515.2	504.3	512.8	569.4	593.4	564.5
72.5°	198.6	203.4	243.1	309.4	359.9	351.5	358.7	405.7	475.4	500.7	470.7
75°	132.4	136.0	157.7	189.0	213.1	229.9	243.1	297.3	362.3	376.8	362.3
77.5°	91.5	95.1	109.5	133.6	136.0	146.9	151.7	177.0	216.7	234.7	225.1
80°	51.8	51.8	59.0	68.6	84.3	98.7	101.1	121.6	139.6	151.7	154.1
82.5°	24.0	25.3	31.3	42.1	55.4	68.6	71.0	84.3	97.5	109.5	113.1
85°	12.1	13.2	18.1	25.3	33.7	41.0	39.7	41.0	43.3	41.0	42.1
87.5°	3.6	3.6	4.8	6.0	4.8	6.0	6.0	7.2	8.5	9.6	10.8
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: P646802

CATALOG NUMBER: GALN-SA2C-835-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9
2.5°	1906.7	1910.3	1886.2	1909.1	1900.7	1899.5	1916.3	1913.9	1919.9	1917.6	1903.1
5°	1907.9	1899.5	1924.8	1901.9	1912.7	1935.6	1919.9	1956.0	1938.0	1950.1	1923.5
7.5°	1945.2	1947.6	1942.8	1952.4	1947.6	1958.4	1950.1	1958.4	1944.0	1945.2	1969.3
10°	1977.7	1970.5	1979.0	1966.9	1975.3	1971.7	1952.4	1946.4	1951.2	1945.2	1960.9
12.5°	2037.9	2024.7	2018.7	2004.2	1994.5	1958.4	1928.4	1911.5	1934.4	1938.0	1930.8
15°	2099.3	2100.5	2072.8	2040.3	1980.1	1925.9	1933.1	1939.2	1939.2	1948.8	1930.8
17.5°	2137.8	2137.8	2112.5	2047.5	1986.2	1954.8	1947.6	1928.4	1911.5	1909.1	1907.9
20°	2205.2	2184.7	2126.9	2046.3	1983.7	1969.3	1915.1	1869.4	1834.5	1822.4	1821.3
22.5°	2282.3	2230.5	2149.9	2048.7	1980.1	1959.7	1858.5	1789.9	1727.4	1700.8	1704.4
25°	2353.3	2270.2	2163.1	2037.9	1966.9	1868.2	1755.0	1660.0	1595.0	1573.3	1562.4
27.5°	2402.6	2312.4	2163.1	2047.5	1917.6	1765.9	1650.3	1528.7	1472.1	1457.7	1460.1
30°	2468.8	2365.3	2200.4	2027.1	1818.8	1633.4	1495.1	1415.6	1381.8	1369.9	1378.2
32.5°	2624.1	2503.7	2252.1	1977.7	1702.1	1501.0	1389.1	1344.6	1295.2	1271.1	1262.7
35°	2792.6	2635.0	2302.7	1894.6	1570.9	1380.7	1310.8	1269.9	1210.9	1184.4	1189.3
37.5°	3031.0	2803.5	2306.3	1757.4	1428.8	1313.2	1249.4	1185.7	1137.5	1096.6	1084.5
40°	3352.3	3033.4	2297.9	1613.0	1314.5	1233.9	1186.9	1107.4	1053.3	1024.4	1030.3
42.5°	3635.2	3303.0	2263.0	1449.3	1210.9	1179.7	1126.7	1048.4	995.5	965.4	963.0
45°	3873.6	3501.7	2196.8	1309.6	1124.3	1119.5	1058.1	997.9	955.7	928.1	940.1
47.5°	4093.8	3661.7	2096.9	1170.0	1044.8	1054.5	995.5	958.2	931.7	906.4	905.2
50°	4173.3	3659.4	2009.0	1054.5	981.0	976.2	973.8	934.1	906.4	884.7	894.3
52.5°	4305.7	3700.2	1913.9	975.0	923.2	924.5	932.9	904.0	872.7	859.4	871.5
55°	4495.9	3706.3	1704.4	882.4	875.1	883.5	883.5	864.3	837.8	826.9	821.0
56°	4340.6	3526.9	1528.7	858.2	851.0	851.0	873.9	852.2	819.7	811.3	804.1
57.5°	4003.6	3090.0	1279.6	829.4	818.5	835.4	847.4	824.6	794.4	782.5	789.7
60°	2761.3	2090.8	961.8	766.8	766.8	794.4	804.1	770.4	757.2	755.9	746.3
62.5°	1611.8	1218.2	752.3	710.2	712.6	735.5	742.7	723.4	706.6	727.0	736.6
65°	854.6	727.0	645.2	650.0	651.2	669.3	700.6	699.4	698.1	704.2	705.4
67.5°	618.7	604.2	586.2	581.4	583.8	597.0	628.4	652.4	651.2	636.7	625.9
70°	551.3	530.9	520.0	521.2	511.6	527.2	552.5	568.1	540.5	523.6	516.4
72.5°	458.6	452.6	445.4	446.5	427.3	423.7	394.8	394.8	387.6	382.8	391.2
75°	350.3	347.9	351.5	345.5	325.0	303.3	286.5	270.8	246.8	237.2	232.3
77.5°	221.5	228.7	237.2	223.9	215.5	199.8	183.0	167.3	148.1	137.3	137.3
80°	150.5	156.5	162.5	160.1	150.5	136.0	122.8	105.9	92.7	84.3	83.1
82.5°	114.3	119.2	127.6	118.0	108.4	96.3	85.4	73.4	61.4	51.8	51.8
85°	41.0	47.0	51.8	56.6	60.2	61.4	52.9	43.3	34.9	27.7	26.5
87.5°	10.8	12.1	13.2	12.1	12.1	12.1	13.2	12.1	10.8	8.5	8.5
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)