

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: P647847

Luminaire Tested: **GALN-SA3A-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647847
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-SA3A-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA 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: 9113.3 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

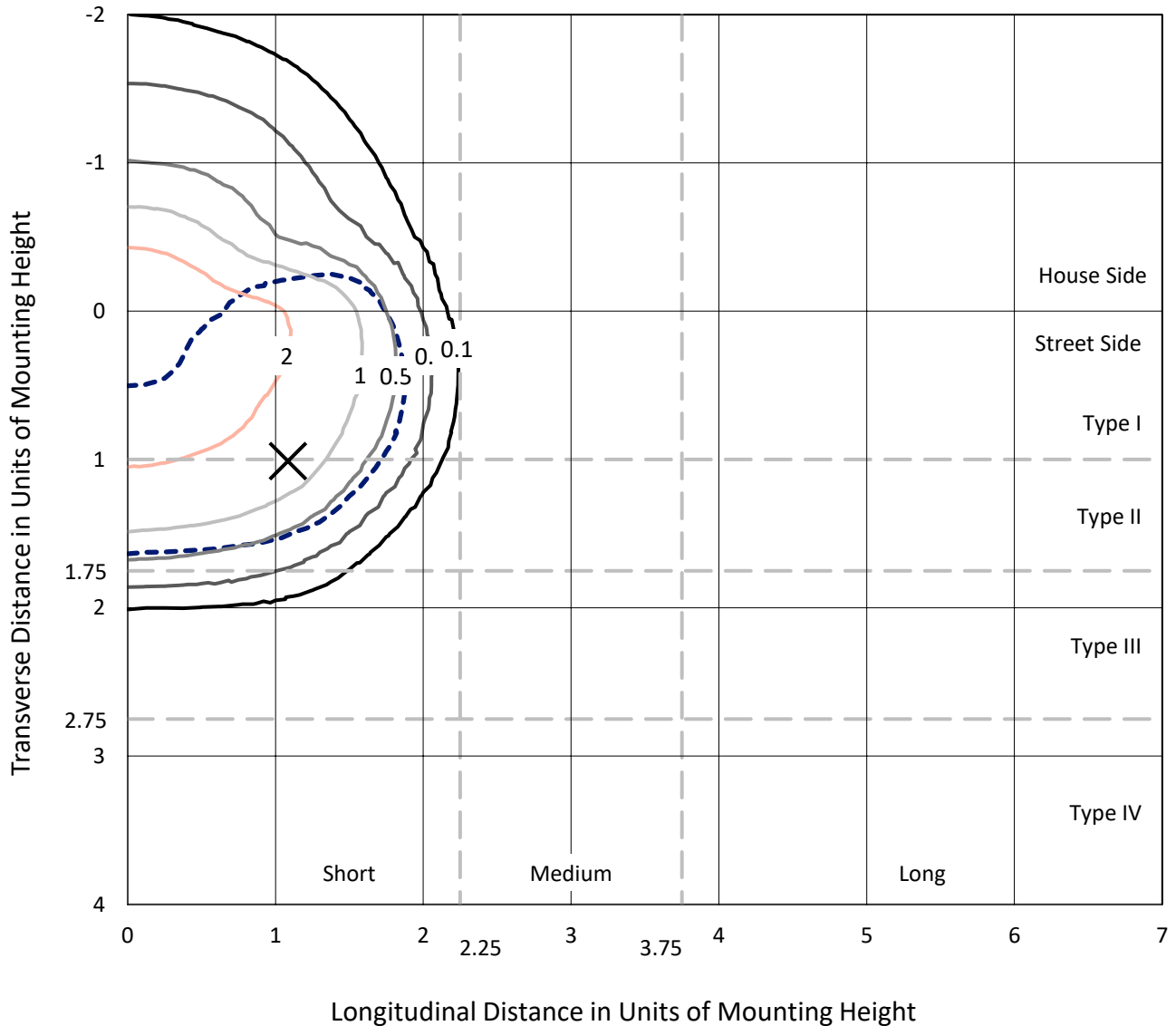
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

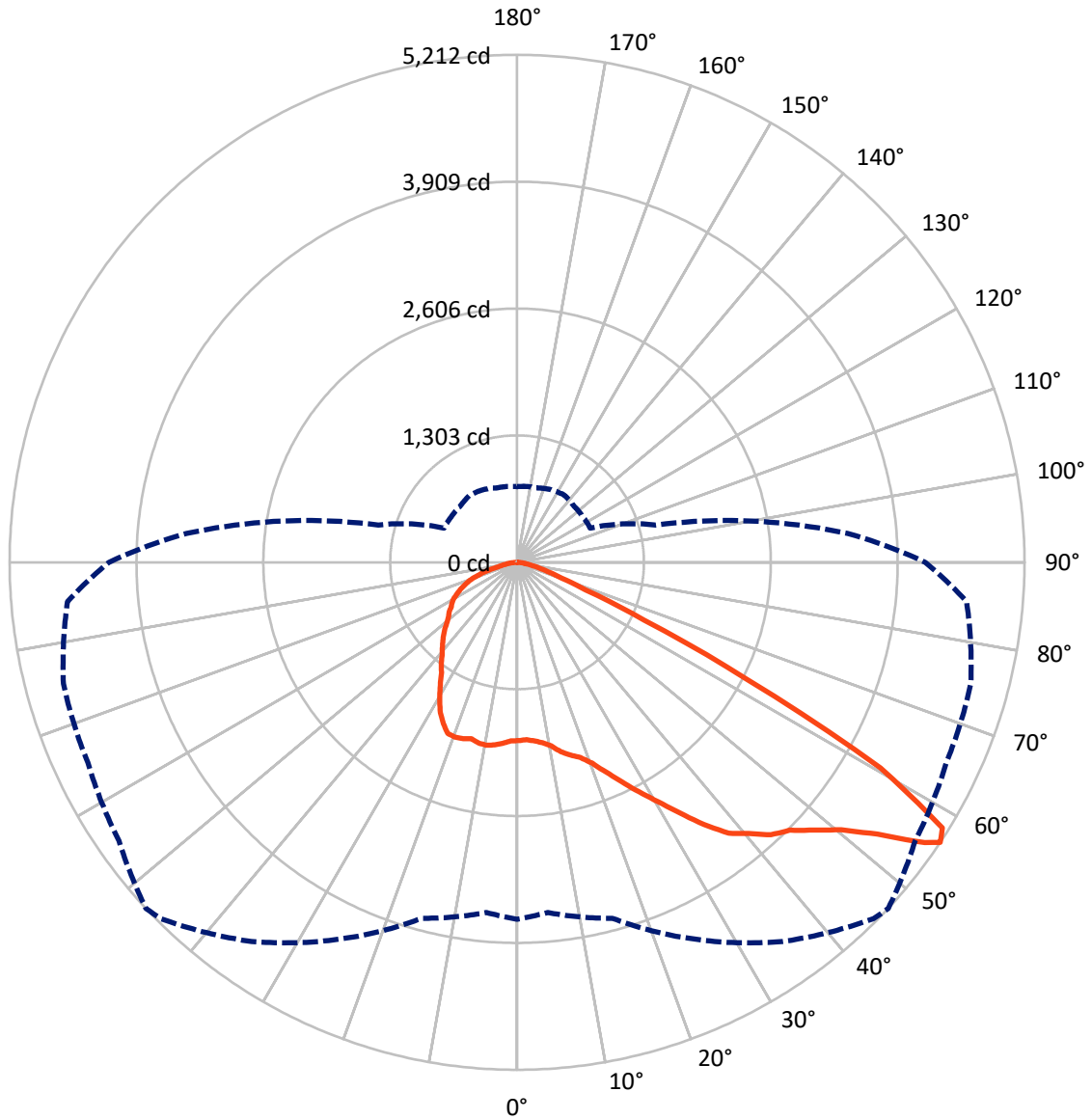
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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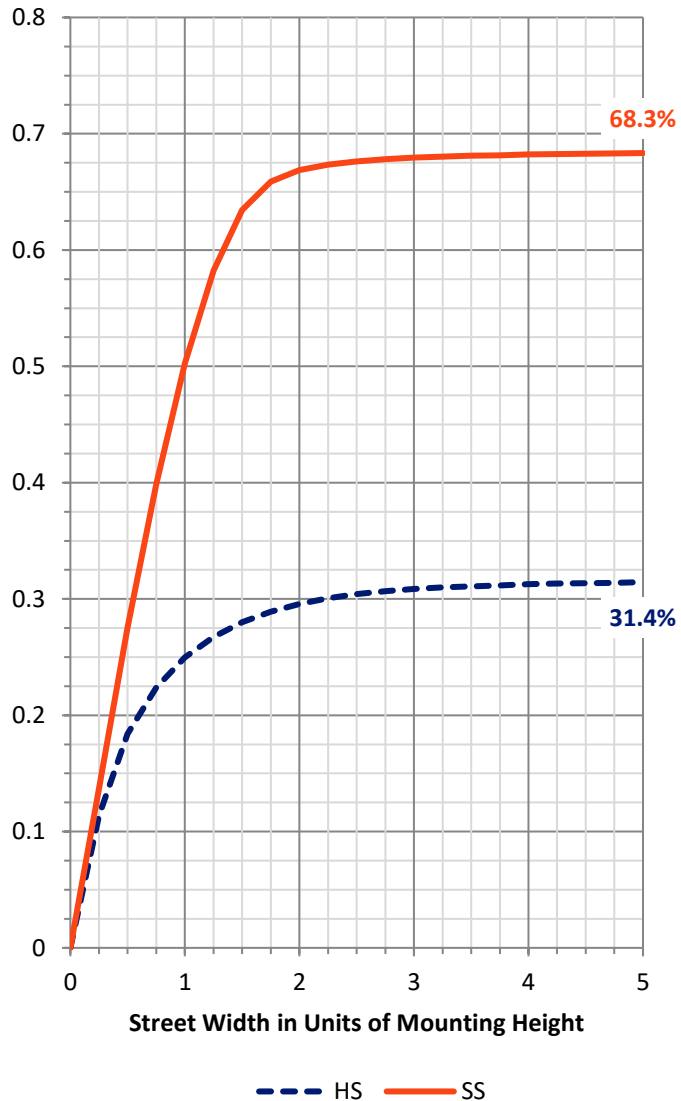
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2887.9	0.0	2887.9
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	6225.4	0.0	6225.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	9113.3	0.0	9113.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	2.0
10°-20°	562.7	6.2
20°-30°	994.6	10.9
30°-40°	1493.9	16.4
40°-50°	2050.3	22.5
50°-60°	2442.6	26.8
60°-70°	1045.3	11.5
70°-80°	295.8	3.2
80°-90°	49.8	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°	9113.3	100.0
0°-180°	9113.3	100.0

Coefficient of Utilization



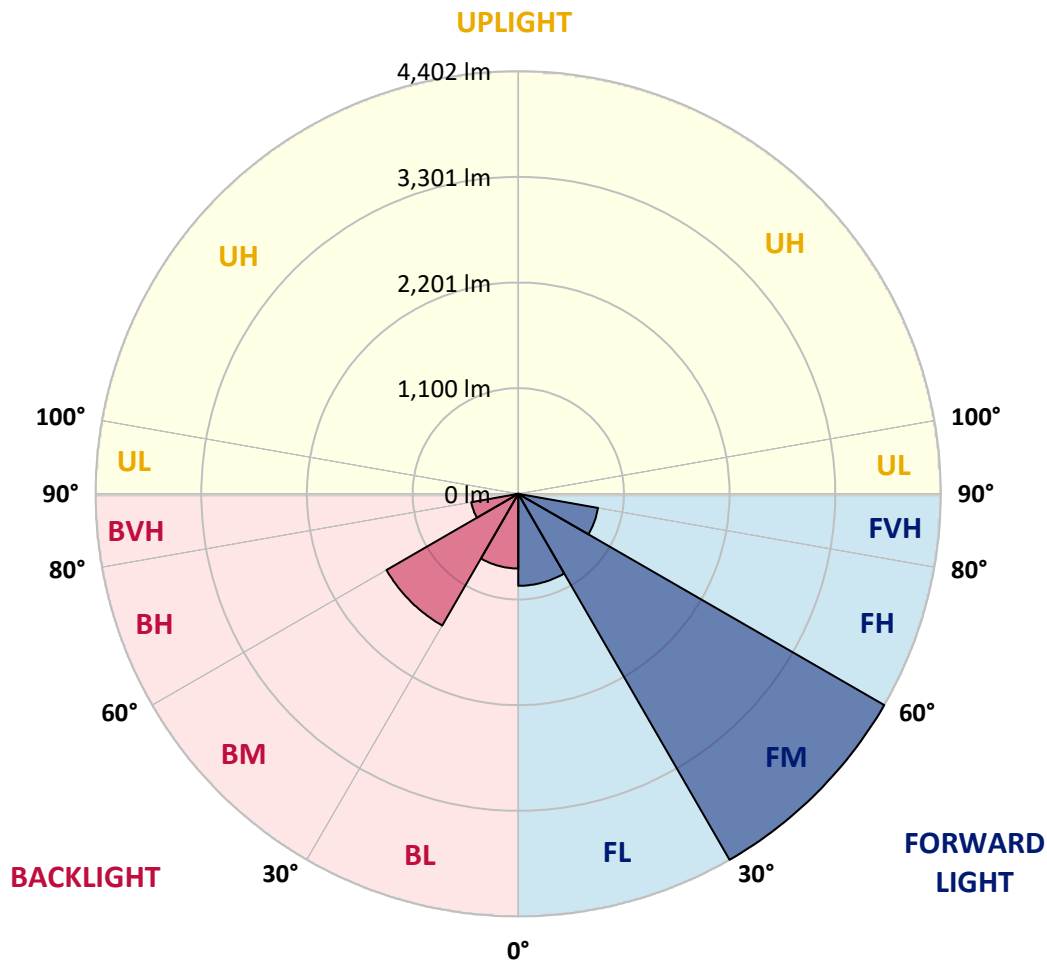
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	958.1	10.5			
FM (30°-60°)	4402.0	48.3			
FH (60°-80°)	844.2	9.3			G1/1800
FVH (80°-90°)	21.1	0.2			G1/100
BL (0°-30°)	777.5	8.5	B2/1000		
BM (30°-60°)	1584.8	17.4	B2/2500		
BH (60°-80°)	496.9	5.5	B1/500		G1/500
BVH (80°-90°)	28.7	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6
2.5°	1823.6	1820.2	1817.8	1836.4	1829.4	1830.6	1823.6	1830.6	1835.3	1824.8	1839.9
5°	1820.2	1830.6	1821.3	1827.1	1842.2	1837.5	1842.2	1856.2	1852.7	1849.2	1844.5
7.5°	1852.7	1853.8	1860.8	1863.1	1867.8	1863.1	1870.1	1882.9	1879.4	1859.6	1862.0
10°	1899.2	1901.5	1902.7	1915.5	1923.6	1924.8	1916.6	1905.0	1903.8	1930.6	1911.9
12.5°	1952.6	1946.9	1960.8	1965.4	1974.7	1985.1	1995.6	1971.2	1986.3	1987.5	1965.4
15°	2030.5	2036.3	2020.1	2020.1	2023.5	2024.7	2053.7	2042.1	2039.8	2027.0	2036.3
17.5°	2146.8	2107.2	2106.0	2089.7	2087.5	2096.7	2107.2	2116.5	2147.9	2122.3	2072.4
20°	2231.6	2240.9	2207.2	2187.4	2190.9	2211.8	2201.3	2243.2	2265.3	2223.4	2174.6
22.5°	2381.5	2350.1	2358.2	2314.1	2317.6	2339.7	2338.5	2381.5	2394.3	2328.0	2257.2
25°	2482.7	2474.5	2481.5	2446.6	2451.3	2468.7	2496.6	2567.5	2546.6	2473.3	2309.5
27.5°	2630.3	2614.0	2608.2	2595.4	2590.7	2637.2	2669.8	2745.3	2730.2	2623.3	2402.4
30°	2781.4	2770.9	2776.7	2724.4	2743.0	2841.7	2851.1	2954.5	2947.5	2759.3	2505.9
32.5°	2886.0	2891.8	2902.2	2873.1	2955.7	3034.8	3066.1	3183.5	3189.3	2992.9	2705.8
35°	3054.5	3034.8	3040.5	3074.2	3112.6	3256.7	3307.9	3385.7	3434.6	3238.1	2897.6
37.5°	3160.3	3181.2	3156.7	3210.2	3310.2	3483.3	3529.8	3610.0	3661.2	3479.9	3159.1
40°	3325.3	3291.6	3309.0	3347.4	3449.7	3675.2	3662.3	3744.9	3761.1	3685.6	3403.2
42.5°	3503.1	3486.9	3462.4	3549.6	3635.6	3799.5	3825.0	3786.7	3869.2	3886.7	3751.8
45°	3715.8	3735.5	3739.1	3741.4	3817.0	3959.9	3925.0	3891.4	3986.6	4113.3	3968.0
47.5°	3913.4	3850.6	3896.0	3958.7	4065.6	4066.8	4107.5	4027.3	4128.4	4241.2	4163.3
50°	3979.7	3949.5	4009.9	4128.4	4293.5	4310.9	4315.6	4201.7	4254.0	4343.5	4230.7
52.5°	3954.1	3943.7	4098.2	4281.8	4523.6	4611.9	4635.2	4494.6	4523.6	4482.9	4379.5
55°	3832.0	3863.4	4019.1	4393.4	4764.2	5037.4	5081.5	4903.7	4718.8	4750.2	4636.4
56°	3664.7	3610.0	3784.4	4266.7	4753.7	5175.6	5211.6	4989.7	4864.2	4823.4	4634.0
57.5°	3109.1	3038.2	3267.1	3839.0	4489.9	5123.3	5150.1	5025.7	4839.7	4757.2	4295.8
60°	1820.2	1855.0	2145.6	2647.7	3463.6	4200.5	4290.0	4380.7	4256.3	3886.7	3197.5
62.5°	878.7	856.6	1064.6	1517.9	2110.7	2681.4	2654.7	2909.2	3048.7	2761.6	2018.9
65°	460.2	458.0	581.1	828.7	1159.9	1408.7	1433.1	1570.2	1762.0	1422.6	1025.1
67.5°	338.3	347.5	409.1	582.3	746.2	761.3	757.8	826.4	845.0	714.8	629.9
70°	265.0	269.7	315.0	442.9	555.5	497.4	487.0	495.2	549.7	573.0	545.1
72.5°	191.8	196.5	234.7	298.7	347.5	339.4	346.3	391.7	459.1	483.5	454.5
75°	127.9	131.3	152.3	182.4	205.7	222.0	234.7	287.0	349.8	363.8	349.8
77.5°	88.3	91.8	105.8	129.0	131.3	141.8	146.4	170.9	209.2	226.7	217.4
80°	50.0	50.0	56.9	66.2	81.4	95.3	97.6	117.4	134.8	146.4	148.8
82.5°	23.3	24.4	30.2	40.7	53.5	66.2	68.6	81.4	94.1	105.8	109.2
85°	11.6	12.8	17.5	24.4	32.6	39.5	38.4	39.5	41.8	39.5	40.7
87.5°	3.5	3.5	4.6	5.8	4.6	5.8	5.8	7.0	8.1	9.3	10.5
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°	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6
2.5°	1841.1	1844.5	1821.3	1843.3	1835.3	1834.1	1850.4	1848.0	1853.8	1851.5	1837.5
5°	1842.2	1834.1	1858.5	1836.4	1846.9	1868.9	1853.8	1888.7	1871.3	1882.9	1857.4
7.5°	1878.3	1880.6	1875.9	1885.2	1880.6	1891.0	1882.9	1891.0	1877.1	1878.3	1901.5
10°	1909.7	1902.7	1910.8	1899.2	1907.3	1903.8	1885.2	1879.4	1884.1	1878.3	1893.4
12.5°	1967.8	1955.0	1949.1	1935.2	1925.9	1891.0	1862.0	1845.7	1867.8	1871.3	1864.3
15°	2027.0	2028.2	2001.4	1970.0	1911.9	1859.6	1866.6	1872.5	1872.5	1881.7	1864.3
17.5°	2064.2	2064.2	2039.8	1977.1	1917.8	1887.6	1880.6	1862.0	1845.7	1843.3	1842.2
20°	2129.3	2109.6	2053.7	1975.9	1915.5	1901.5	1849.2	1805.0	1771.3	1759.7	1758.5
22.5°	2203.7	2153.7	2075.8	1978.2	1911.9	1892.2	1794.6	1728.3	1667.9	1642.3	1645.8
25°	2272.3	2192.1	2088.7	1967.8	1899.2	1803.9	1694.6	1602.8	1540.0	1519.1	1508.6
27.5°	2320.0	2232.7	2088.7	1977.1	1851.5	1705.1	1593.5	1476.1	1421.5	1407.5	1409.9
30°	2383.8	2283.9	2124.7	1957.3	1756.2	1577.2	1443.5	1366.8	1334.3	1322.6	1330.8
32.5°	2533.8	2417.5	2174.6	1909.7	1643.4	1449.3	1341.3	1298.3	1250.6	1227.4	1219.2
35°	2696.5	2544.2	2223.4	1829.4	1516.7	1333.1	1265.7	1226.2	1169.3	1143.6	1148.3
37.5°	2926.6	2707.0	2226.9	1696.9	1379.6	1268.1	1206.4	1144.8	1098.4	1058.9	1047.2
40°	3236.9	2929.0	2218.8	1557.5	1269.2	1191.3	1146.0	1069.3	1017.0	989.1	994.9
42.5°	3510.1	3189.3	2185.1	1399.4	1169.3	1139.0	1087.9	1012.3	961.2	932.2	929.8
45°	3740.2	3381.1	2121.1	1264.5	1085.6	1080.9	1021.7	963.6	922.8	896.1	907.7
47.5°	3952.9	3535.6	2024.7	1129.7	1008.9	1018.1	961.2	925.2	899.6	875.2	874.1
50°	4029.6	3533.4	1939.9	1018.1	947.3	942.6	940.3	901.9	875.2	854.3	863.6
52.5°	4157.5	3572.8	1848.0	941.5	891.4	892.6	900.8	872.9	842.7	829.9	841.5
55°	4341.1	3578.7	1645.8	852.0	845.0	853.1	853.1	834.5	808.9	798.5	792.7
56°	4191.2	3405.5	1476.1	828.7	821.8	821.8	843.8	822.9	791.5	783.4	776.4
57.5°	3865.7	2983.5	1235.5	800.8	790.4	806.6	818.2	796.2	767.1	755.5	762.5
60°	2666.3	2018.9	928.6	740.4	740.4	767.1	776.4	743.8	731.1	729.9	720.6
62.5°	1556.3	1176.2	726.4	685.8	688.1	710.2	717.1	698.5	682.2	702.0	711.3
65°	825.2	702.0	623.0	627.7	628.8	646.2	676.4	675.3	674.1	680.0	681.1
67.5°	597.4	583.5	566.0	561.4	563.7	576.5	606.7	629.9	628.8	614.8	604.4
70°	532.4	512.6	502.1	503.2	494.0	509.1	533.5	548.6	521.9	505.6	498.6
72.5°	442.9	437.0	430.0	431.2	412.6	409.1	381.2	381.2	374.3	369.6	377.7
75°	338.3	335.9	339.4	333.6	313.8	292.9	276.6	261.5	238.3	228.9	224.3
77.5°	213.8	220.8	228.9	216.2	208.0	192.9	176.6	161.5	143.0	132.5	132.5
80°	145.2	151.1	156.9	154.6	145.2	131.3	118.5	102.3	89.5	81.4	80.2
82.5°	110.4	115.1	123.2	113.9	104.6	93.0	82.5	70.9	59.3	50.0	50.0
85°	39.5	45.3	50.0	54.7	58.1	59.3	51.1	41.8	33.7	26.7	25.6
87.5°	10.5	11.6	12.8	11.6	11.6	11.6	12.8	11.6	10.5	8.1	8.1
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)