

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: P651725

Luminaire Tested: **GALN-SA2A-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6555.6 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

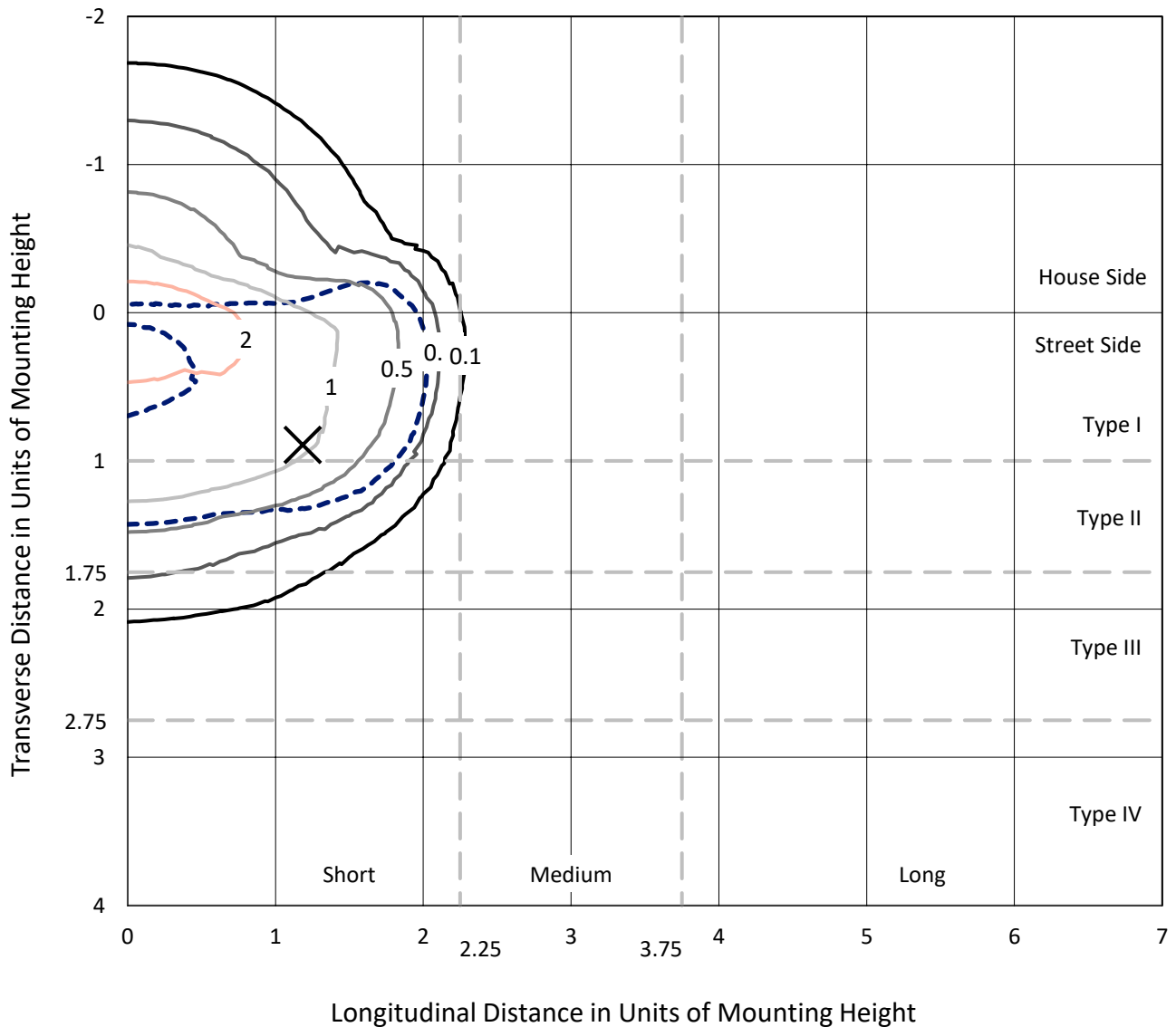
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

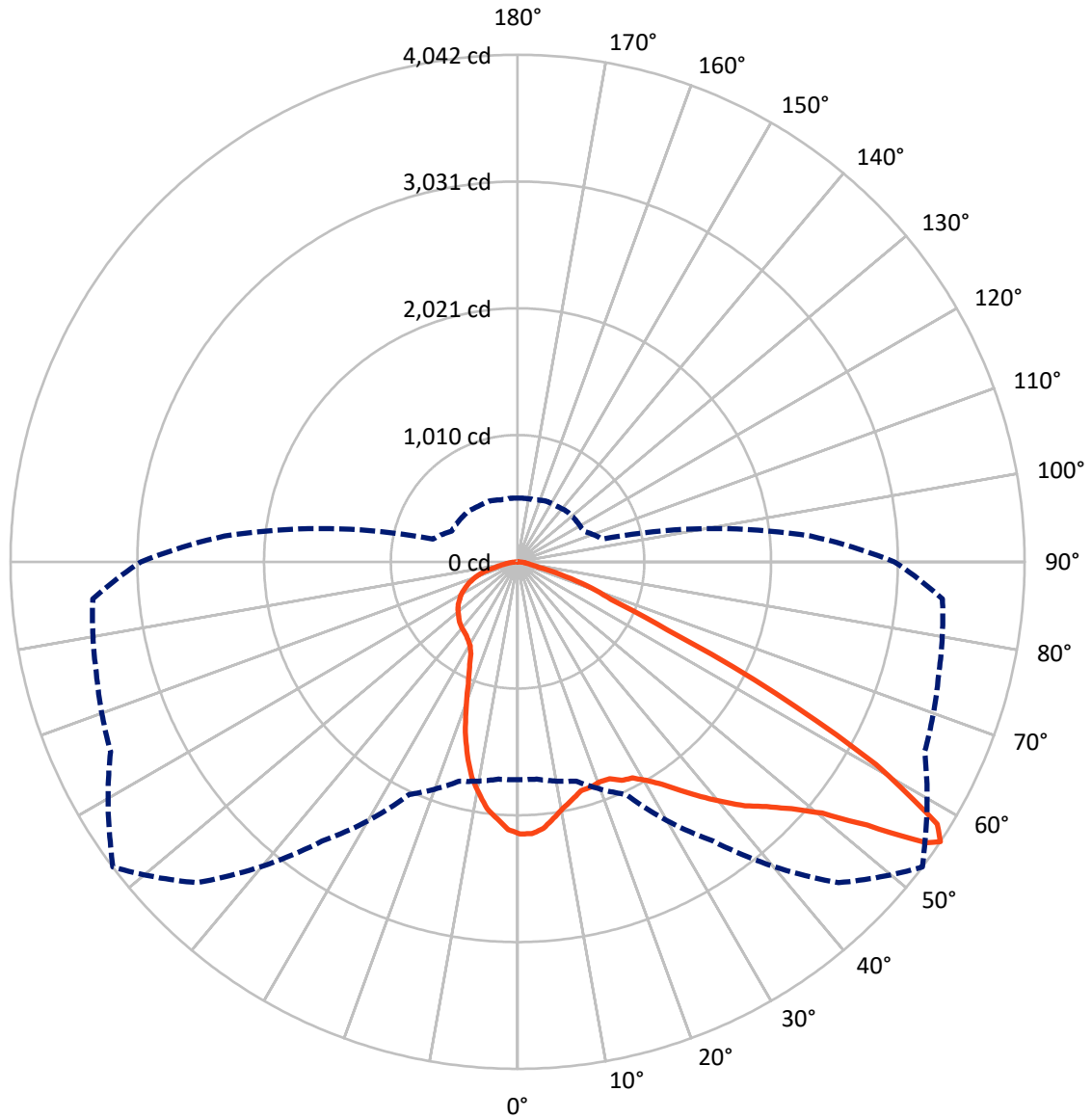
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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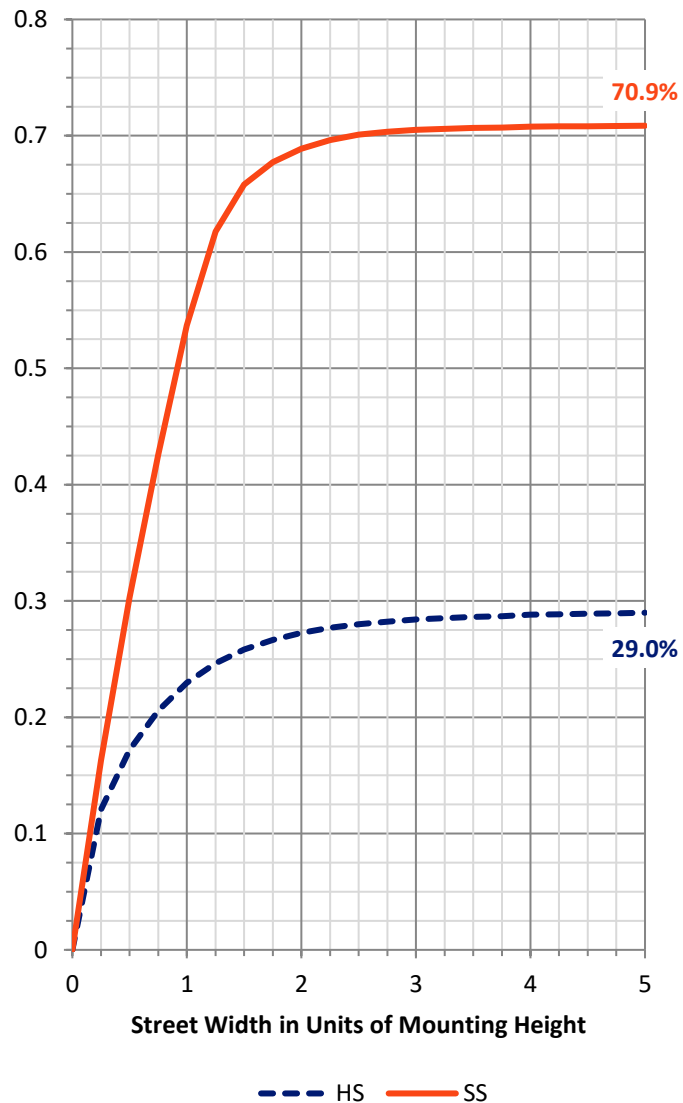
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1913.1	0.0	1913.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	4642.5	0.0	4642.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	6555.6	0.0	6555.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	2.9
10°-20°	479.5	7.3
20°-30°	707.1	10.8
30°-40°	1010.4	15.4
40°-50°	1390.6	21.2
50°-60°	1643.3	25.1
60°-70°	875.8	13.4
70°-80°	222.2	3.4
80°-90°	34.6	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°	6555.6	100.0
0°-180°	6555.6	100.0

Coefficient of Utilization

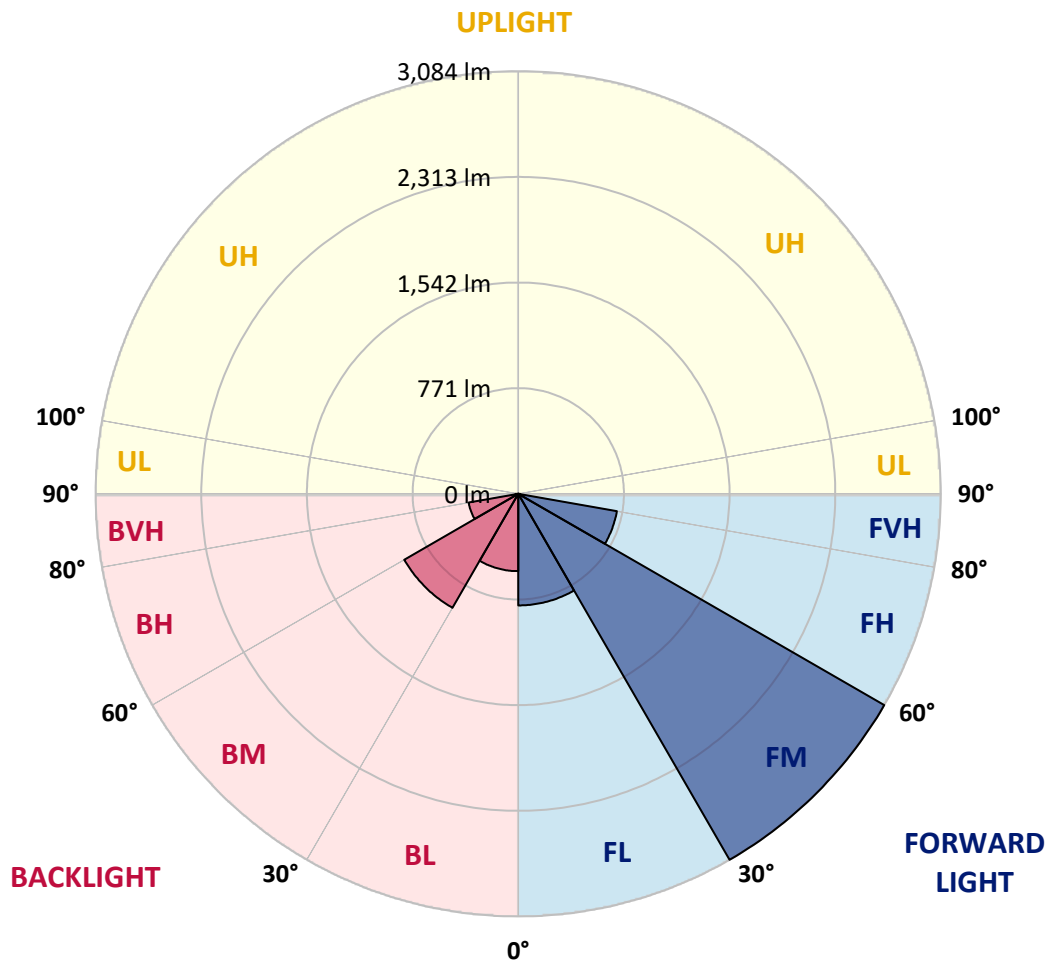


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	814.4	12.4			
FM (30°-60°)	3083.6	47.0			
FH (60°-80°)	730.5	11.1			G1/1800
FVH (80°-90°)	13.9	0.2			G1/100
BL (0°-30°)	564.2	8.6	B2/1000		
BM (30°-60°)	960.7	14.7	B1/1000		
BH (60°-80°)	367.4	5.6	B1/500		G1/500
BVH (80°-90°)	20.7	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°	53°	55°	65°	75°	85°
0°	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9
2.5°	2141.9	2123.4	2134.4	2130.2	2164.6	2174.7	2169.7	2173.9	2193.2	2184.0	2164.6
5°	2001.5	2027.6	2032.6	2045.2	2065.4	2104.9	2136.1	2144.5	2153.7	2196.6	2192.4
7.5°	1873.7	1891.3	1882.1	1919.1	1962.8	2026.7	2064.6	2071.3	2156.2	2179.8	2197.4
10°	1792.9	1775.3	1817.3	1827.4	1877.0	1950.2	1995.6	2023.4	2100.7	2194.1	2205.0
12.5°	1718.1	1712.2	1737.4	1766.0	1821.5	1897.2	1943.5	1954.4	2073.8	2172.2	2223.5
15°	1662.6	1655.8	1681.1	1702.1	1766.9	1834.1	1893.0	1924.1	2044.4	2159.6	2207.5
17.5°	1618.8	1618.0	1632.3	1670.1	1736.6	1792.9	1888.0	1889.6	2029.2	2178.9	2221.0
20°	1616.3	1615.5	1618.0	1660.0	1720.6	1789.6	1872.0	1887.1	2029.2	2165.5	2221.8
22.5°	1637.3	1623.9	1639.0	1665.9	1709.7	1795.5	1877.9	1911.5	2078.0	2231.9	2259.7
25°	1671.0	1674.3	1682.8	1692.0	1717.2	1808.9	1930.0	1957.8	2135.2	2289.1	2311.8
27.5°	1732.4	1730.7	1734.1	1739.1	1761.0	1821.5	1951.0	2022.5	2254.6	2390.9	2368.2
30°	1822.4	1816.5	1829.9	1847.6	1827.4	1861.9	2020.8	2074.7	2365.6	2493.5	2431.2
32.5°	1903.9	1925.8	1951.0	1958.6	1934.2	1940.9	2113.3	2168.0	2458.2	2619.6	2508.6
35°	2005.7	2023.4	2057.0	2080.5	2076.3	2056.2	2239.5	2311.8	2591.9	2712.1	2590.2
37.5°	2104.9	2126.0	2181.5	2251.3	2212.6	2203.3	2374.1	2433.8	2633.1	2761.8	2649.9
40°	2264.7	2263.9	2359.8	2395.9	2430.4	2414.4	2513.7	2533.8	2655.0	2750.8	2651.6
42.5°	2452.3	2440.5	2538.1	2594.4	2639.0	2640.7	2659.2	2652.4	2665.0	2695.3	2633.9
45°	2630.6	2655.8	2754.2	2855.1	2899.7	2904.7	2781.9	2769.3	2682.7	2679.3	2600.3
47.5°	2848.4	2854.3	2935.0	3067.8	3171.2	3135.9	2940.9	2913.1	2760.1	2786.1	2656.6
50°	2861.0	2904.7	2977.1	3133.4	3451.3	3442.0	3146.9	3094.7	2884.5	2937.5	2813.9
52.5°	2596.9	2586.8	2672.6	2928.3	3430.3	3746.5	3488.3	3363.8	3151.9	3111.5	3068.6
55°	1978.8	2002.3	2078.0	2336.2	2978.7	3750.7	3953.4	3851.6	3437.8	3368.9	3319.3
56°	1735.7	1739.1	1810.6	2046.1	2718.0	3617.0	4041.7	3959.3	3580.0	3474.8	3399.2
57.5°	1438.9	1419.5	1456.5	1585.2	2294.2	3334.4	3945.0	4025.7	3746.5	3589.2	3484.1
60°	1132.7	1128.5	1113.4	1136.9	1449.8	2512.0	3283.9	3465.6	3729.7	3481.6	3336.9
62.5°	925.1	904.1	934.4	968.0	1007.5	1558.3	2307.6	2414.4	2961.1	2779.4	2506.9
65°	717.4	707.3	745.1	854.5	878.0	989.9	1314.4	1396.8	1748.4	1717.2	1512.0
67.5°	493.7	495.3	528.1	694.7	814.1	804.0	804.8	847.7	912.5	677.8	590.4
70°	312.9	312.0	329.7	447.4	655.1	661.9	628.2	615.6	583.7	353.2	374.2
72.5°	201.0	195.1	204.4	247.3	338.9	391.9	403.7	411.2	338.1	277.5	301.1
75°	113.5	107.6	104.3	115.2	133.7	154.7	169.9	174.9	196.0	210.2	222.9
77.5°	34.5	31.1	37.8	50.5	66.4	89.1	108.5	111.9	132.0	148.9	161.5
80°	15.1	16.8	23.5	33.6	47.1	63.1	76.5	81.6	95.0	107.6	111.0
82.5°	9.3	10.1	16.0	22.7	32.8	44.6	54.7	56.3	69.8	79.9	82.4
85°	3.4	4.2	8.4	13.5	21.0	28.6	28.6	31.1	28.6	28.6	31.1
87.5°	0.0	0.0	0.8	1.7	1.7	2.5	3.4	3.4	4.2	5.0	5.9
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°	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9
2.5°	2174.7	2170.5	2163.8	2139.4	2136.9	2129.3	2087.3	2080.5	2087.3	2067.1	2068.8
5°	2170.5	2183.2	2132.7	2108.3	2062.9	2030.1	1992.2	1972.9	1938.4	1916.6	1940.9
7.5°	2189.0	2184.0	2120.9	2067.9	1999.8	1916.6	1850.1	1812.3	1751.7	1734.9	1747.5
10°	2182.3	2155.4	2081.4	2011.6	1882.9	1809.7	1702.1	1597.8	1540.6	1511.2	1507.0
12.5°	2173.1	2165.5	2041.9	1921.6	1786.2	1632.3	1480.9	1382.5	1289.2	1248.8	1254.7
15°	2184.0	2120.1	1967.9	1815.6	1635.7	1433.8	1270.7	1143.7	1078.9	1052.8	1052.8
17.5°	2178.9	2098.2	1932.5	1697.1	1469.1	1230.3	1051.2	974.7	947.8	947.8	955.4
20°	2181.5	2112.5	1861.0	1578.5	1272.3	1036.0	905.8	878.0	889.8	894.0	898.2
22.5°	2195.8	2065.4	1791.2	1448.1	1089.9	886.4	822.5	823.3	844.4	867.1	862.9
25°	2213.4	2046.9	1706.3	1318.6	950.3	813.2	793.1	790.5	806.5	818.3	820.0
27.5°	2198.3	2015.0	1619.7	1157.1	836.0	764.5	760.3	761.9	767.0	790.5	783.0
30°	2247.9	2024.2	1511.2	1021.7	772.9	748.5	743.4	740.9	748.5	755.2	749.3
32.5°	2309.3	1991.4	1430.5	891.5	741.8	736.7	726.6	723.3	727.5	720.7	724.1
35°	2336.2	1985.5	1325.3	798.1	717.4	713.2	707.3	706.4	707.3	701.4	696.3
37.5°	2351.4	2013.3	1205.1	755.2	702.2	706.4	693.0	691.3	676.2	679.5	682.1
40°	2377.4	1970.4	1107.5	714.0	693.0	684.6	672.8	670.3	660.2	654.3	660.2
42.5°	2339.6	1957.8	1011.7	696.3	679.5	670.3	661.9	647.6	644.2	639.2	635.8
45°	2309.3	1885.4	925.9	674.5	663.5	658.5	642.5	627.4	614.8	619.8	612.2
47.5°	2332.0	1860.2	841.0	656.0	641.7	635.8	619.8	608.0	595.4	589.5	587.9
50°	2422.8	1907.3	769.5	642.5	623.2	619.8	598.8	585.3	573.6	569.4	571.0
52.5°	2639.8	2036.0	720.7	614.8	605.5	590.4	578.6	561.8	554.2	540.8	549.2
55°	2914.8	2245.4	708.1	588.7	583.7	570.2	554.2	541.6	527.3	516.4	513.9
56°	3003.1	2345.5	698.0	578.6	570.2	562.6	541.6	534.0	511.3	508.8	507.1
57.5°	3074.5	2433.8	699.7	559.3	550.9	544.1	531.5	513.0	497.9	488.6	492.8
60°	2913.1	2278.2	667.8	529.8	528.1	515.5	497.9	489.5	471.0	460.0	457.5
62.5°	2165.5	1546.5	541.6	492.0	491.1	477.7	457.5	448.3	444.9	429.8	429.8
65°	1247.1	969.7	468.4	460.9	454.1	440.7	420.5	412.9	404.5	399.5	395.3
67.5°	532.4	502.9	425.5	424.7	417.1	400.3	380.1	368.4	357.4	347.3	352.4
70°	386.0	391.9	384.3	380.1	370.9	349.9	332.2	317.9	301.1	294.3	299.4
72.5°	306.1	318.7	329.7	330.5	319.6	295.2	275.8	256.5	238.0	228.8	233.0
75°	232.1	240.5	251.5	254.0	238.0	221.2	202.7	182.5	168.2	157.3	158.9
77.5°	167.4	165.7	175.8	174.1	166.5	154.7	137.9	119.4	103.4	93.4	94.2
80°	114.4	116.9	122.8	121.9	112.7	105.1	92.5	77.4	65.6	57.2	55.5
82.5°	79.9	84.1	89.1	84.9	77.4	69.8	60.6	49.6	40.4	33.6	32.0
85°	28.6	32.8	37.8	40.4	42.9	41.2	34.5	27.8	20.2	16.8	16.0
87.5°	5.9	6.7	7.6	7.6	7.6	6.7	5.9	5.9	5.0	2.5	2.5
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)