

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: P651812

Luminaire Tested: **GALN-SA3A-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11748.8 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

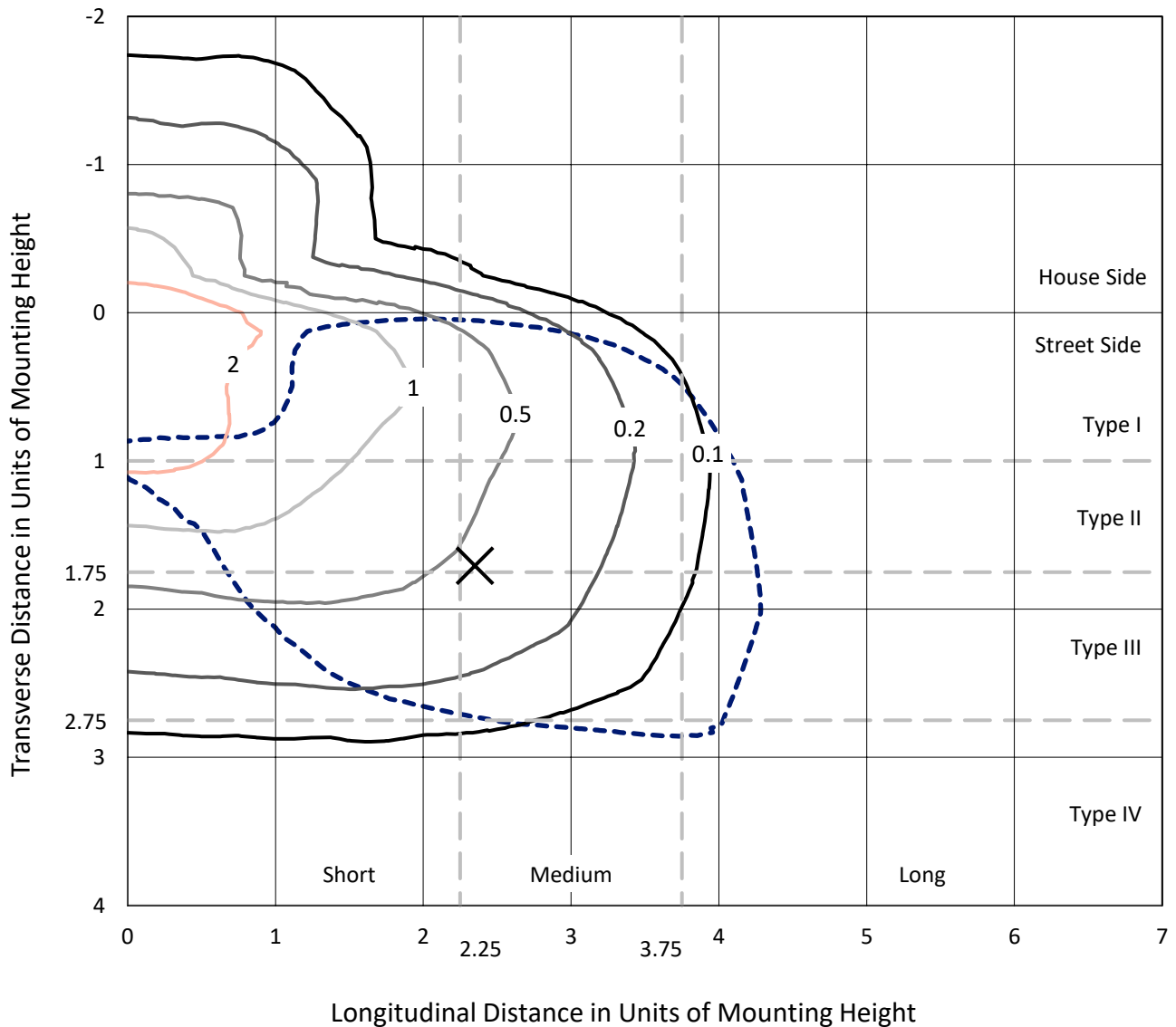
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

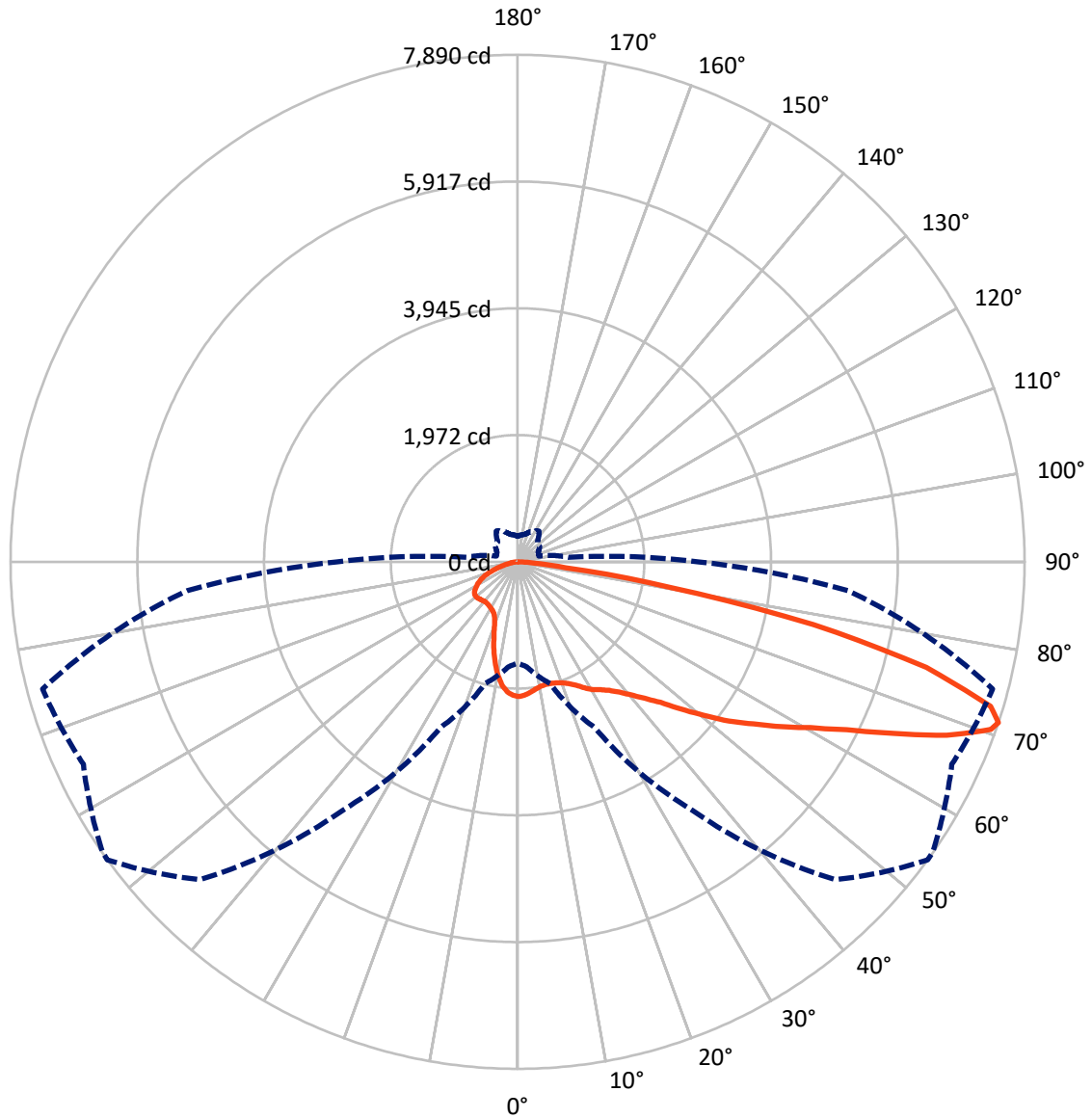
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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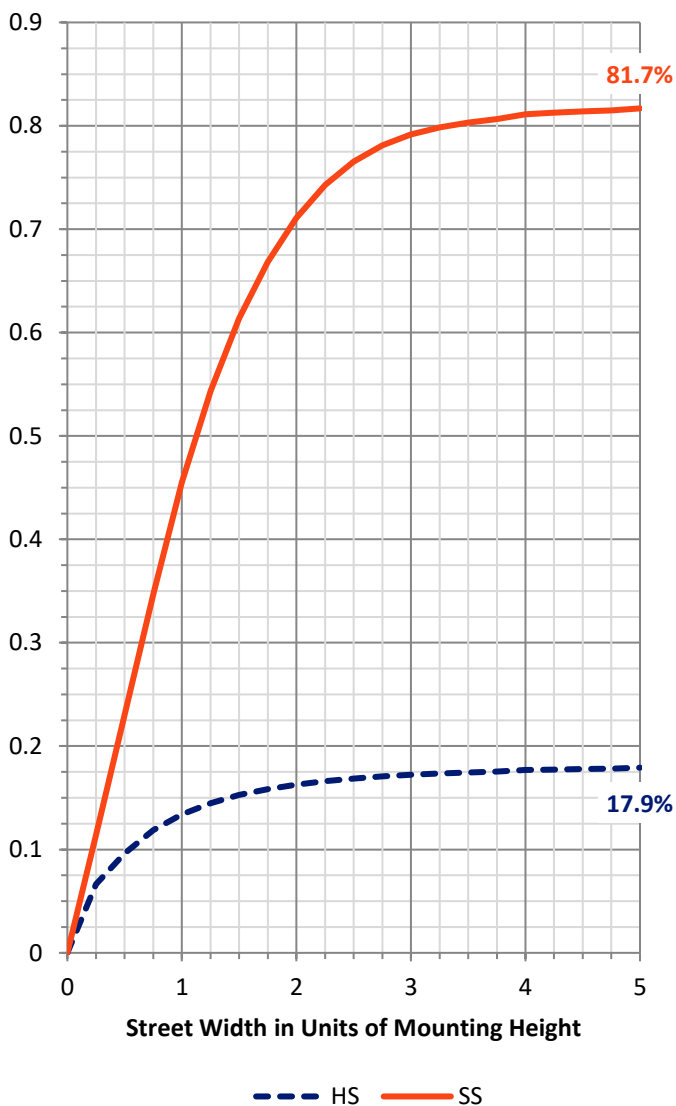
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2121.2	0.0	2121.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9627.6	0.0	9627.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	11748.8	0.0	11748.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	1.6
10°-20°	493.2	4.2
20°-30°	821.3	7.0
30°-40°	1214.4	10.3
40°-50°	1710.5	14.6
50°-60°	2290.5	19.5
60°-70°	2886.9	24.6
70°-80°	1971.8	16.8
80°-90°	173.4	1.5
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°	11748.8	100.0
0°-180°	11748.8	100.0

Coefficient of Utilization

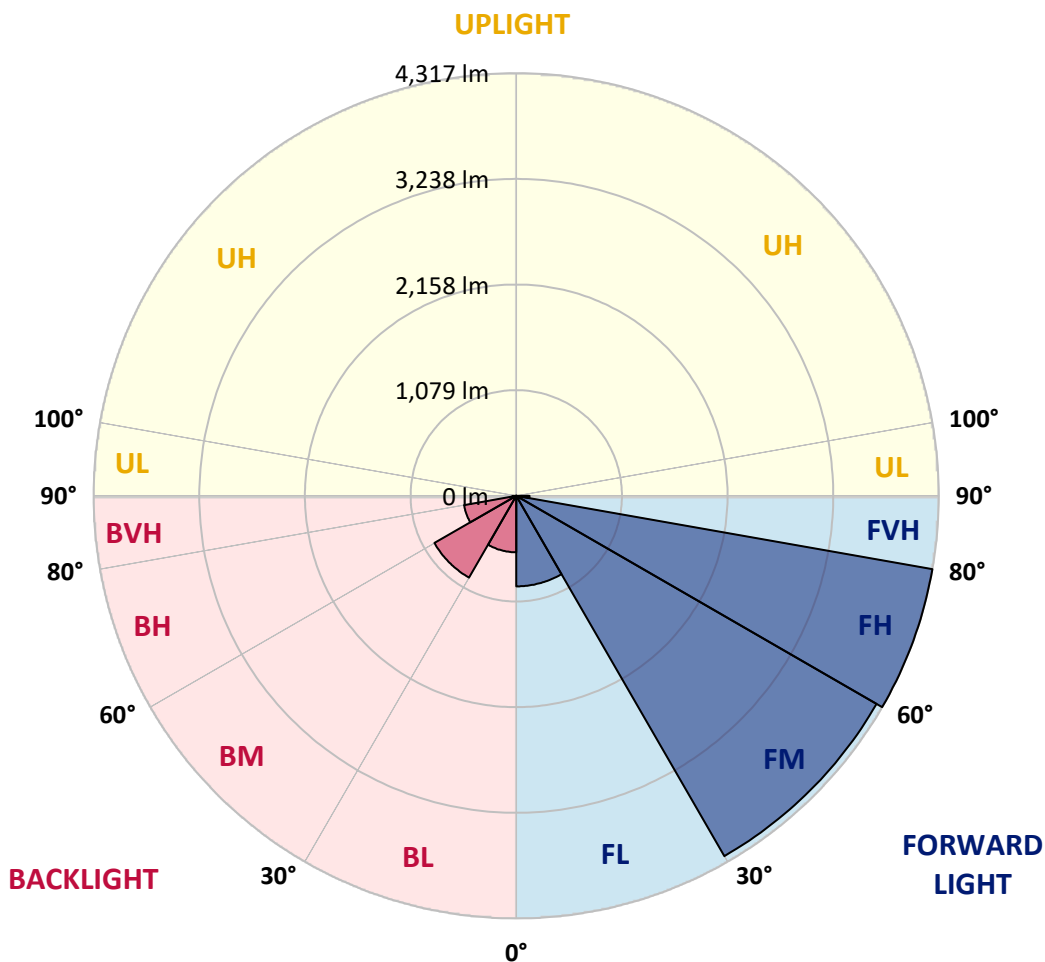


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.8	7.9			
FM (30°-60°)	4250.3	36.2			
FH (60°-80°)	4317.0	36.7			G2/5000
FVH (80°-90°)	135.5	1.2			G2/225
BL (0°-30°)	576.5	4.9	B2/1000		
BM (30°-60°)	965.1	8.2	B1/1000		
BH (60°-80°)	541.7	4.6	B2/1000		G2/1000
BVH (80°-90°)	37.9	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2
2.5°	2025.0	2034.6	2037.2	2043.5	2056.8	2067.6	2078.4	2077.1	2092.3	2098.7	2104.4
5°	1935.0	1937.5	1947.0	1959.7	1983.2	2013.0	2042.2	2042.9	2080.3	2110.2	2124.7
7.5°	1869.0	1877.2	1883.6	1896.9	1921.6	1954.0	2000.3	2004.1	2070.8	2129.7	2160.9
10°	1825.8	1835.3	1842.3	1858.8	1883.6	1919.8	1969.9	1976.9	2063.8	2160.9	2215.4
12.5°	1786.5	1796.0	1802.3	1823.9	1856.3	1900.7	1957.2	1965.4	2066.3	2197.0	2275.2
15°	1810.6	1818.2	1815.6	1822.0	1843.6	1894.4	1962.2	1970.5	2075.8	2231.9	2334.1
17.5°	1917.8	1924.2	1903.3	1879.1	1869.0	1906.4	1978.1	1987.0	2094.8	2268.2	2394.4
20°	2075.8	2093.0	2047.3	1993.3	1944.5	1949.5	2011.1	2020.7	2121.5	2304.3	2456.0
22.5°	2281.5	2294.2	2238.3	2149.4	2059.4	2013.0	2060.6	2066.3	2161.5	2351.3	2523.3
25°	2523.3	2530.9	2453.4	2339.2	2209.1	2121.5	2128.5	2138.7	2227.6	2404.6	2582.9
27.5°	2758.1	2782.2	2692.7	2553.1	2381.7	2235.8	2221.8	2228.1	2299.2	2434.4	2624.2
30°	3036.7	3034.7	2940.2	2778.4	2558.8	2360.2	2310.1	2308.7	2338.0	2449.0	2654.0
32.5°	3258.8	3284.8	3192.2	3015.7	2761.3	2489.0	2370.9	2368.4	2367.8	2474.4	2698.4
35°	3511.3	3515.1	3430.1	3252.4	2980.2	2650.8	2456.0	2443.3	2428.7	2529.0	2758.7
37.5°	3737.3	3755.1	3677.0	3477.7	3195.3	2818.9	2572.8	2564.5	2520.1	2623.5	2855.2
40°	3913.7	3927.0	3880.0	3690.3	3407.3	3000.5	2721.2	2706.0	2652.1	2778.4	2984.0
42.5°	3971.5	3998.8	4017.1	3923.9	3650.9	3215.6	2904.1	2885.0	2843.8	3013.2	3132.5
45°	3975.9	4019.1	4116.2	4120.6	3895.9	3473.2	3117.3	3104.0	3100.8	3314.0	3341.3
47.5°	3942.3	3986.1	4149.2	4237.4	4114.3	3733.5	3425.1	3404.1	3406.0	3685.9	3575.4
50°	3861.0	3913.1	4111.1	4312.2	4285.0	4003.8	3750.0	3743.0	3782.3	4110.5	3818.5
52.5°	3708.1	3771.0	4071.7	4359.2	4411.9	4236.7	4119.3	4099.6	4199.3	4571.2	4084.4
55°	3284.8	3379.4	3927.6	4385.2	4532.5	4459.5	4451.8	4487.4	4619.4	5073.8	4377.0
57.5°	3063.9	3135.0	3614.8	4389.7	4684.8	4718.4	4840.3	4849.1	5080.1	5607.5	4707.6
60°	2943.4	3006.2	3443.5	4360.5	4897.4	5038.9	5237.5	5269.3	5530.1	6185.6	5050.3
62.5°	2838.0	2891.9	3340.6	4259.6	5137.2	5514.2	5752.2	5767.4	6041.0	6824.0	5388.5
65°	2589.9	2651.4	3133.7	4158.7	5344.1	6108.3	6435.1	6417.3	6584.9	7374.9	5600.6
67.5°	2255.5	2333.5	2747.3	3810.2	5446.3	6757.4	7204.3	7182.0	7121.8	7736.0	5661.4
70°	1828.3	1870.2	2252.9	3208.0	5038.3	7098.2	7811.5	7788.1	7454.3	7783.6	5373.3
71°	1573.3	1638.6	1961.6	2849.5	4698.8	6994.2	7889.6	7883.3	7454.9	7652.3	5156.3
72.5°	1228.0	1268.0	1553.6	2207.9	3993.7	6402.7	7696.7	7720.8	7293.1	7287.3	4708.9
75°	776.7	794.6	974.8	1299.7	2191.3	4534.3	6570.2	6635.6	6475.7	5964.8	3501.8
77.5°	451.2	474.1	583.8	766.0	946.9	2461.1	4701.3	4772.3	4499.4	3284.2	1433.6
80°	262.7	288.1	384.6	444.9	434.7	913.2	2393.8	2515.0	1948.3	829.5	402.3
82.5°	146.0	163.1	270.4	271.0	231.6	298.3	753.3	788.2	555.9	334.5	164.3
85°	106.0	119.9	174.5	158.0	111.1	128.2	262.1	274.8	224.6	140.9	53.3
87.5°	37.4	53.3	95.8	76.2	30.4	26.7	75.5	61.6	57.1	39.4	12.0
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°	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2
2.5°	2107.5	2108.8	2102.5	2091.1	2079.6	2065.1	2048.6	2035.9	2030.2	2029.5	2028.9
5°	2130.4	2133.6	2109.5	2073.9	2034.6	1986.4	1945.1	1898.1	1886.1	1867.0	1872.7
7.5°	2167.3	2165.3	2117.7	2042.2	1950.2	1848.0	1761.7	1711.6	1659.5	1644.9	1645.6
10°	2219.9	2207.9	2117.7	1977.4	1823.9	1672.2	1551.6	1475.5	1434.2	1400.0	1387.3
12.5°	2275.7	2245.3	2097.5	1886.7	1661.5	1475.5	1346.0	1243.3	1216.6	1188.7	1189.3
15°	2329.1	2278.3	2057.4	1759.2	1486.3	1265.5	1139.8	1078.2	1070.0	1073.1	1072.5
17.5°	2377.3	2301.7	1996.5	1617.0	1281.9	1085.2	1018.5	1023.0	1045.2	1061.1	1063.0
20°	2426.1	2315.7	1905.8	1426.6	1089.0	976.1	978.6	1013.5	1047.1	1068.7	1071.9
22.5°	2472.5	2322.1	1799.2	1242.6	949.4	929.7	967.2	1004.6	1037.6	1058.6	1061.8
25°	2503.0	2307.5	1648.1	1050.3	880.9	913.2	952.6	984.3	1012.2	1033.8	1038.9
27.5°	2511.2	2260.5	1460.9	894.8	849.2	897.3	933.5	957.0	978.6	998.9	1002.7
30°	2506.8	2191.3	1255.3	803.4	830.7	878.9	906.9	924.0	950.0	965.9	969.1
32.5°	2499.8	2110.7	1040.7	754.5	815.5	861.9	878.3	893.6	892.9	886.6	891.0
35°	2502.3	2014.3	866.9	725.4	802.1	849.2	863.1	844.0	789.4	786.9	784.4
37.5°	2515.6	1919.1	740.6	705.1	795.2	847.2	854.9	767.2	719.1	696.9	691.1
40°	2549.9	1808.1	657.5	689.9	794.6	861.9	817.4	728.6	635.9	592.7	589.5
42.5°	2595.6	1698.9	606.7	680.3	802.1	884.1	802.1	674.0	573.1	547.7	543.9
45°	2663.5	1573.8	578.8	675.9	813.6	892.3	797.1	633.9	547.7	527.4	527.4
47.5°	2740.3	1454.6	563.6	672.7	828.2	886.6	752.0	621.3	535.6	538.2	550.2
50°	2816.4	1351.2	552.1	665.7	840.8	883.4	733.6	620.7	538.8	571.1	592.7
52.5°	2904.6	1278.2	538.2	654.3	840.8	863.1	727.9	633.4	547.7	557.2	566.7
55°	3011.3	1255.3	520.4	629.6	825.6	812.3	724.8	651.8	554.1	531.8	535.6
57.5°	3152.2	1292.1	503.3	598.5	790.7	759.7	723.4	656.8	539.4	521.0	517.2
60°	3315.9	1365.1	498.2	566.7	743.1	714.6	715.9	642.3	519.1	500.1	503.3
62.5°	3430.8	1408.8	495.0	542.6	691.1	665.1	697.4	624.4	510.2	493.8	496.9
65°	3430.8	1355.5	465.8	505.8	623.9	605.4	675.2	602.2	498.8	479.8	476.6
67.5°	3300.7	1200.1	421.4	450.6	549.6	537.5	644.1	575.6	481.6	467.1	459.4
70°	2961.7	910.0	365.6	385.9	455.7	466.4	604.2	539.4	453.1	435.4	423.9
71°	2812.6	792.6	342.0	352.9	419.5	435.4	585.1	524.2	440.4	415.0	394.8
72.5°	2525.2	667.6	306.5	311.0	358.6	387.1	545.1	495.0	416.3	380.1	357.3
75°	1918.5	487.4	246.8	244.3	265.3	307.1	461.4	441.0	364.9	316.0	302.7
77.5°	828.8	265.3	184.7	186.6	180.2	232.9	363.0	378.9	312.9	257.0	245.0
80°	251.3	153.0	126.3	128.8	120.6	156.1	255.7	297.0	251.3	199.9	183.4
82.5°	128.8	91.4	86.3	85.0	76.8	88.2	154.8	203.1	179.6	125.1	110.4
85°	55.8	48.9	42.6	41.2	36.2	31.7	55.3	101.5	95.2	69.8	66.6
87.5°	14.0	12.7	8.2	7.7	4.5	0.7	0.0	0.0	0.0	0.0	0.0
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)