

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: P650825

Luminaire Tested: **GALN-SA3C-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17611.4 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

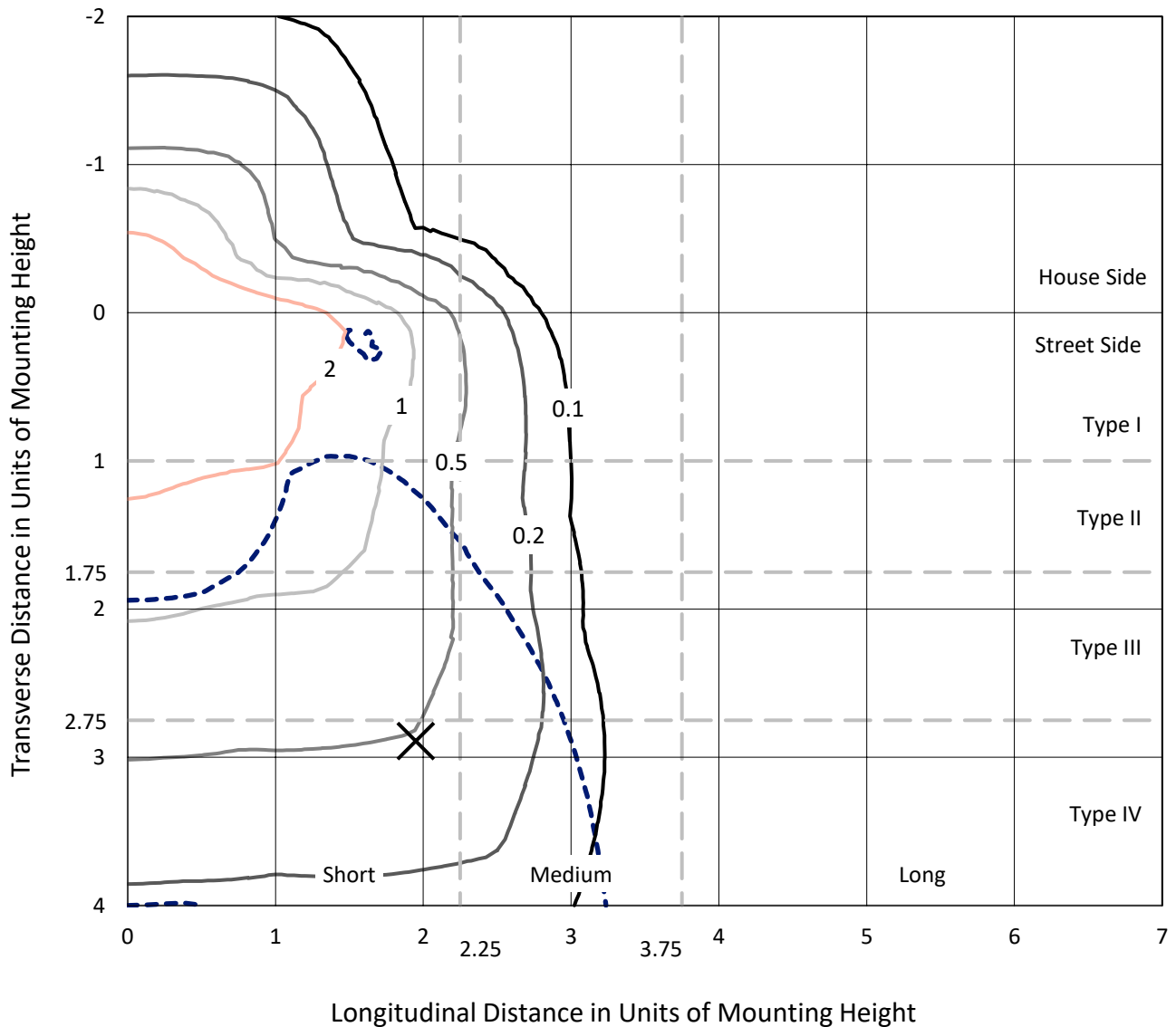
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

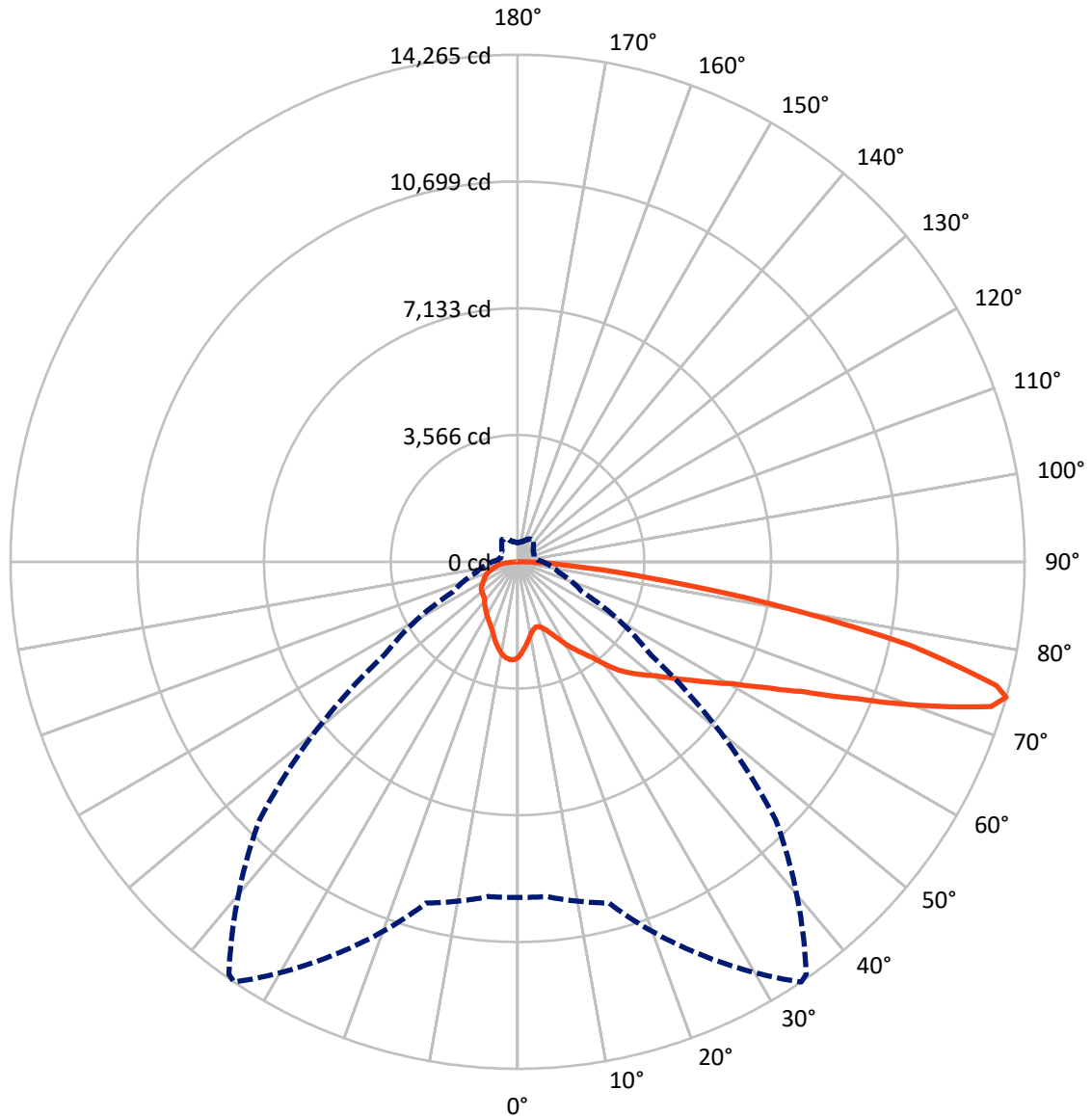
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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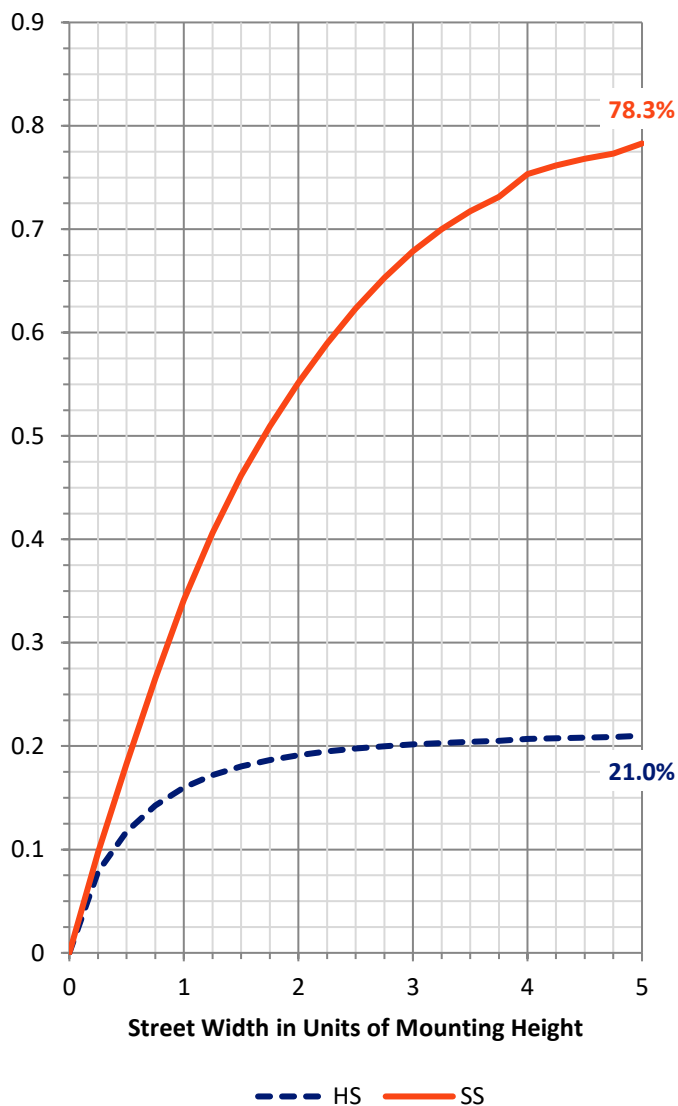
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3747.8	0.0	3747.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	13863.6	0.0	13863.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	17611.4	0.0	17611.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.5	1.4
10°-20°	669.4	3.8
20°-30°	1103.7	6.3
30°-40°	1653.2	9.4
40°-50°	2403.4	13.6
50°-60°	3356.9	19.1
60°-70°	4202.7	23.9
70°-80°	3475.3	19.7
80°-90°	502.2	2.9
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°	17611.4	100.0
0°-180°	17611.4	100.0

Coefficient of Utilization



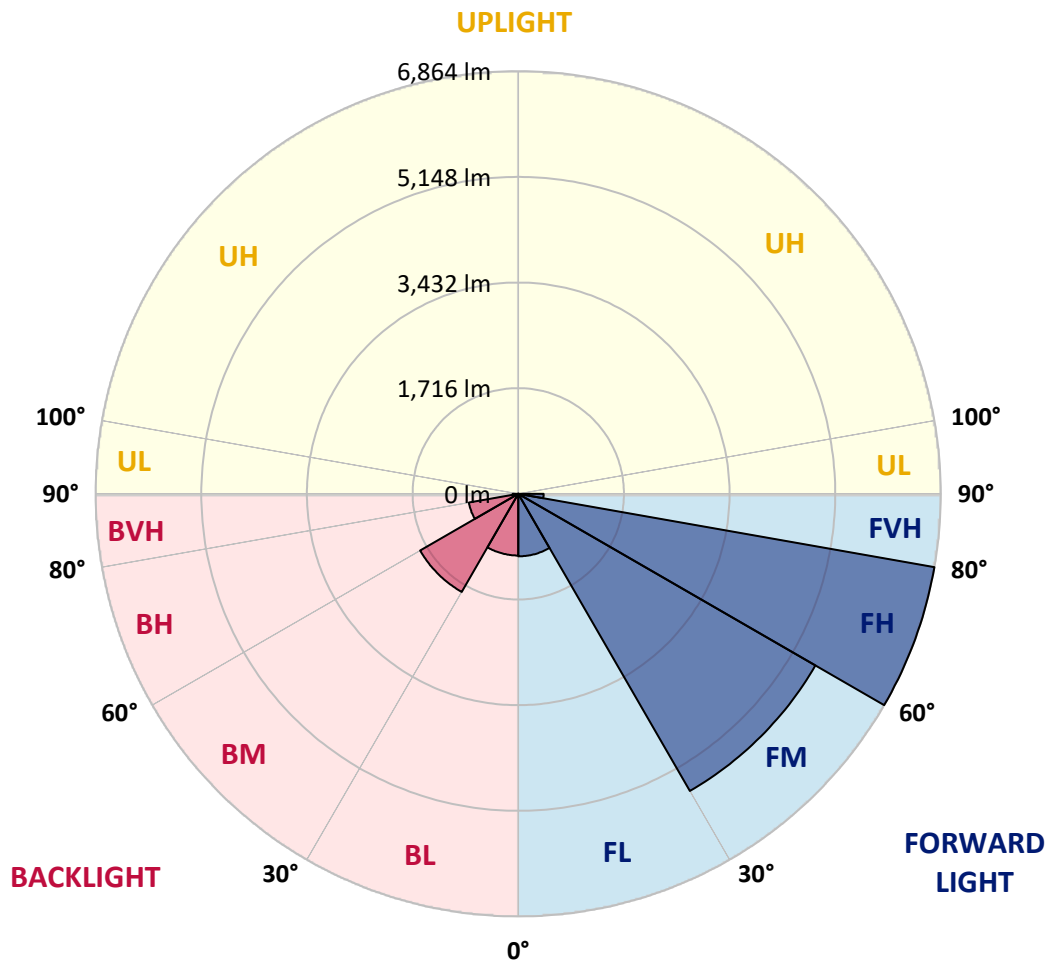
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1015.2	5.8			
FM (30°-60°)	5573.0	31.6			
FH (60°-80°)	6864.0	39.0			G3/7500
FVH (80°-90°)	411.4	2.3			G3/500
BL (0°-30°)	1002.5	5.7	B3/2500		
BM (30°-60°)	1840.6	10.5	B2/2500		
BH (60°-80°)	814.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	90.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2688.9	2688.9	2688.9	2688.9	2688.9	2688.9	2688.9	2688.9	2688.9	2688.9	2688.9
2.5°	2485.0	2497.7	2504.5	2528.9	2534.8	2542.6	2563.0	2590.4	2625.5	2656.7	2684.1
5°	2278.2	2297.7	2309.4	2330.8	2372.8	2376.7	2431.3	2493.8	2565.0	2631.3	2686.0
7.5°	2082.1	2103.5	2113.3	2152.3	2207.9	2216.7	2296.7	2395.3	2514.3	2614.8	2698.7
10°	1934.7	1945.5	1966.9	1996.2	2062.6	2068.4	2172.8	2304.5	2458.7	2606.9	2720.1
12.5°	1854.7	1860.5	1865.4	1896.7	1962.1	1970.8	2080.1	2229.4	2414.8	2612.8	2755.3
15°	1866.4	1868.4	1846.9	1852.8	1905.5	1918.2	2026.5	2179.6	2387.4	2627.5	2807.9
17.5°	1965.0	1958.2	1905.5	1878.1	1915.2	1921.1	2015.7	2160.1	2374.7	2654.8	2862.6
20°	2120.1	2110.3	2019.6	1959.1	1980.6	1985.4	2050.9	2174.7	2387.4	2699.6	2947.5
22.5°	2313.3	2309.4	2171.8	2098.6	2097.6	2097.6	2131.9	2227.4	2425.4	2761.1	3036.3
25°	2583.6	2563.0	2383.6	2288.9	2262.5	2260.6	2256.7	2314.3	2474.3	2826.5	3141.6
27.5°	2860.7	2825.5	2665.5	2520.1	2463.5	2456.7	2431.3	2437.2	2536.7	2900.6	3261.7
30°	3109.4	3087.0	2936.7	2775.7	2708.4	2692.8	2622.6	2590.4	2641.1	3034.3	3452.8
32.5°	3299.7	3286.0	3169.0	3022.6	2923.1	2920.1	2817.7	2791.4	2804.1	3196.2	3671.4
35°	3453.8	3458.7	3399.2	3272.3	3158.2	3141.6	3073.4	3040.1	3003.0	3430.4	3946.6
37.5°	3664.6	3675.3	3671.4	3562.1	3422.6	3426.5	3410.9	3356.3	3257.7	3691.9	4251.9
40°	3896.8	3904.6	3903.6	3861.6	3788.5	3792.4	3786.5	3724.1	3576.8	4024.6	4591.4
42.5°	4217.8	4180.7	4084.1	4126.0	4169.0	4187.5	4227.5	4168.0	3966.1	4379.8	4910.5
45°	4576.8	4506.6	4288.0	4307.5	4466.6	4501.7	4722.2	4640.2	4388.5	4787.6	5286.1
47.5°	4803.1	4733.9	4549.5	4545.6	4756.4	4790.5	5180.7	5150.5	4772.9	5227.6	5744.7
50°	5005.1	4995.4	4787.6	4837.3	5043.1	5093.9	5680.3	5651.9	5156.3	5746.6	6244.2
52.5°	5304.6	5225.6	5059.8	5162.2	5434.4	5500.7	6175.9	6093.0	5508.6	6205.2	6729.1
55°	5439.3	5420.7	5411.0	5499.8	5873.5	5921.2	6657.9	6467.6	5809.0	6593.5	7097.9
57.5°	5799.3	5765.1	5861.8	5922.2	6390.6	6463.8	7161.3	6858.9	6072.5	6901.8	7277.4
60°	6265.7	6247.1	6335.9	6445.2	6968.1	7079.4	7735.0	7192.6	6284.2	7056.9	7178.9
62.5°	6962.3	6960.4	6943.7	7177.9	7786.7	7889.2	8393.6	7517.4	6317.3	6940.9	6669.6
65°	7961.3	7926.3	7781.9	8037.4	8805.3	8925.3	9079.4	7698.9	6117.3	6344.7	5615.9
67.5°	9006.3	9004.3	8887.3	9219.0	10267.8	10391.7	9937.1	7658.9	5562.2	5139.8	3988.4
70°	9872.7	9830.7	9980.0	10864.0	12136.2	12279.6	10687.3	7187.7	4430.5	3394.3	2369.9
72.5°	10080.5	10082.4	10392.7	12132.3	13930.4	13952.9	10957.6	5825.6	2965.0	1872.3	1185.4
74°	9440.5	9457.0	9938.0	12195.7	14265.0	14163.6	10266.8	4578.7	2004.9	1222.5	854.7
75°	8617.0	8512.6	9208.3	11773.2	13917.7	13808.5	9458.1	3674.3	1529.9	976.7	748.3
77.5°	4607.1	4713.4	5786.6	8785.8	11306.9	11181.0	6413.0	1762.1	826.4	680.0	538.6
80°	1640.1	1808.9	2542.6	4597.3	7249.2	7288.2	3060.7	807.9	581.5	501.5	380.5
82.5°	669.3	687.9	1091.8	2040.1	3681.1	3716.3	1249.8	480.0	415.6	345.4	227.3
85°	261.5	269.3	483.0	917.1	1570.8	1673.3	432.2	253.6	255.7	198.1	116.1
87.5°	87.8	99.5	198.1	305.4	533.7	522.9	125.9	75.1	91.8	85.9	36.1
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°	2688.9	2688.9	2688.9	2688.9	2688.9	2688.9	2688.9	2688.9	2688.9	2688.9	2688.9
2.5°	2697.7	2716.3	2728.9	2742.6	2755.3	2759.2	2756.2	2765.0	2766.0	2767.0	2767.9
5°	2713.3	2738.6	2763.0	2776.7	2782.5	2777.7	2761.1	2752.3	2744.5	2738.6	2740.7
7.5°	2734.8	2770.8	2793.3	2799.2	2783.5	2761.1	2720.1	2687.9	2667.5	2653.8	2652.9
10°	2767.9	2803.1	2821.6	2805.0	2762.1	2707.4	2643.1	2582.5	2536.7	2523.1	2522.1
12.5°	2809.9	2849.9	2848.9	2800.1	2725.0	2627.5	2523.1	2452.8	2390.4	2359.2	2371.8
15°	2864.5	2894.8	2866.5	2778.7	2659.7	2525.9	2397.2	2301.6	2231.3	2198.1	2200.1
17.5°	2927.9	2954.3	2879.2	2740.7	2567.9	2396.2	2246.9	2156.2	2100.6	2076.2	2074.2
20°	3007.0	3014.8	2879.2	2674.3	2449.8	2245.0	2102.5	2039.1	2007.9	1995.2	1999.1
22.5°	3091.9	3076.2	2863.5	2580.6	2294.8	2086.9	1991.3	1963.1	1947.4	1945.5	1947.4
25°	3187.5	3143.6	2831.4	2453.8	2132.8	1950.4	1894.7	1899.6	1902.5	1902.5	1909.3
27.5°	3304.5	3216.7	2777.7	2293.7	1943.5	1823.5	1807.9	1842.0	1857.7	1860.5	1865.4
30°	3458.7	3296.7	2688.9	2093.8	1782.5	1709.3	1736.7	1782.5	1800.1	1810.8	1808.9
32.5°	3642.1	3384.5	2568.9	1893.8	1652.7	1629.4	1662.5	1709.3	1728.8	1734.7	1726.9
35°	3857.8	3484.1	2410.8	1706.4	1539.6	1553.2	1592.3	1606.9	1624.5	1624.5	1628.3
37.5°	4090.0	3564.1	2217.6	1534.7	1451.8	1501.5	1529.9	1516.2	1508.3	1498.6	1503.5
40°	4326.0	3623.6	1966.9	1364.9	1363.9	1447.9	1455.7	1416.7	1385.5	1375.7	1370.8
42.5°	4531.9	3660.7	1740.5	1233.2	1281.0	1395.2	1401.0	1338.6	1288.8	1259.6	1249.8
45°	4774.9	3703.6	1519.1	1124.0	1204.0	1353.3	1367.9	1284.0	1210.8	1149.3	1133.8
47.5°	5107.6	3801.2	1344.4	1039.1	1148.4	1326.9	1347.4	1239.0	1142.5	1062.5	1049.8
50°	5483.2	3934.8	1208.9	981.5	1105.4	1303.5	1328.9	1193.2	1079.1	990.3	980.5
52.5°	5827.6	4007.0	1091.8	929.8	1063.4	1260.6	1304.5	1160.1	1016.6	918.1	909.3
55°	6015.9	3890.0	976.7	879.1	1005.9	1204.9	1270.3	1114.2	956.1	880.0	867.3
57.5°	6041.2	3648.0	872.2	824.4	945.5	1136.6	1206.9	1058.6	917.1	853.7	842.9
60°	5845.1	3287.0	791.3	779.5	884.0	1059.6	1135.7	1009.8	877.1	824.4	813.7
62.5°	5357.3	2894.8	734.7	738.6	821.5	978.6	1083.0	962.9	839.1	792.2	782.5
65°	4518.3	2389.4	680.0	696.6	765.9	915.2	1035.2	923.9	801.1	767.8	759.1
67.5°	3138.7	1725.0	635.1	652.7	713.2	850.8	979.6	882.0	758.1	740.5	726.9
70°	1737.7	1061.5	582.5	603.0	658.6	778.6	917.1	818.5	695.7	687.9	668.3
72.5°	913.2	676.2	522.9	545.4	584.4	685.9	821.5	749.3	634.2	601.0	575.7
74°	713.2	554.1	483.0	506.4	532.7	631.3	764.9	699.5	590.3	551.3	531.8
75°	621.5	493.7	448.8	479.0	502.5	594.2	721.0	664.4	565.9	528.8	511.2
77.5°	439.1	369.8	366.8	402.9	415.6	521.0	649.8	604.9	504.4	465.4	448.8
80°	308.3	277.1	290.7	313.2	330.8	460.5	603.0	522.9	413.7	367.9	362.0
82.5°	201.0	181.5	207.8	228.3	234.1	339.5	486.9	397.1	301.5	244.9	227.3
85°	92.7	90.7	119.0	116.1	115.1	165.8	288.8	232.2	173.7	129.8	121.9
87.5°	23.4	22.5	29.3	24.4	29.3	25.4	26.3	6.8	1.0	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)