

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: P647965

Luminaire Tested: **GALN-SA5A-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647965
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-SA5A-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA 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: 17892.3 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

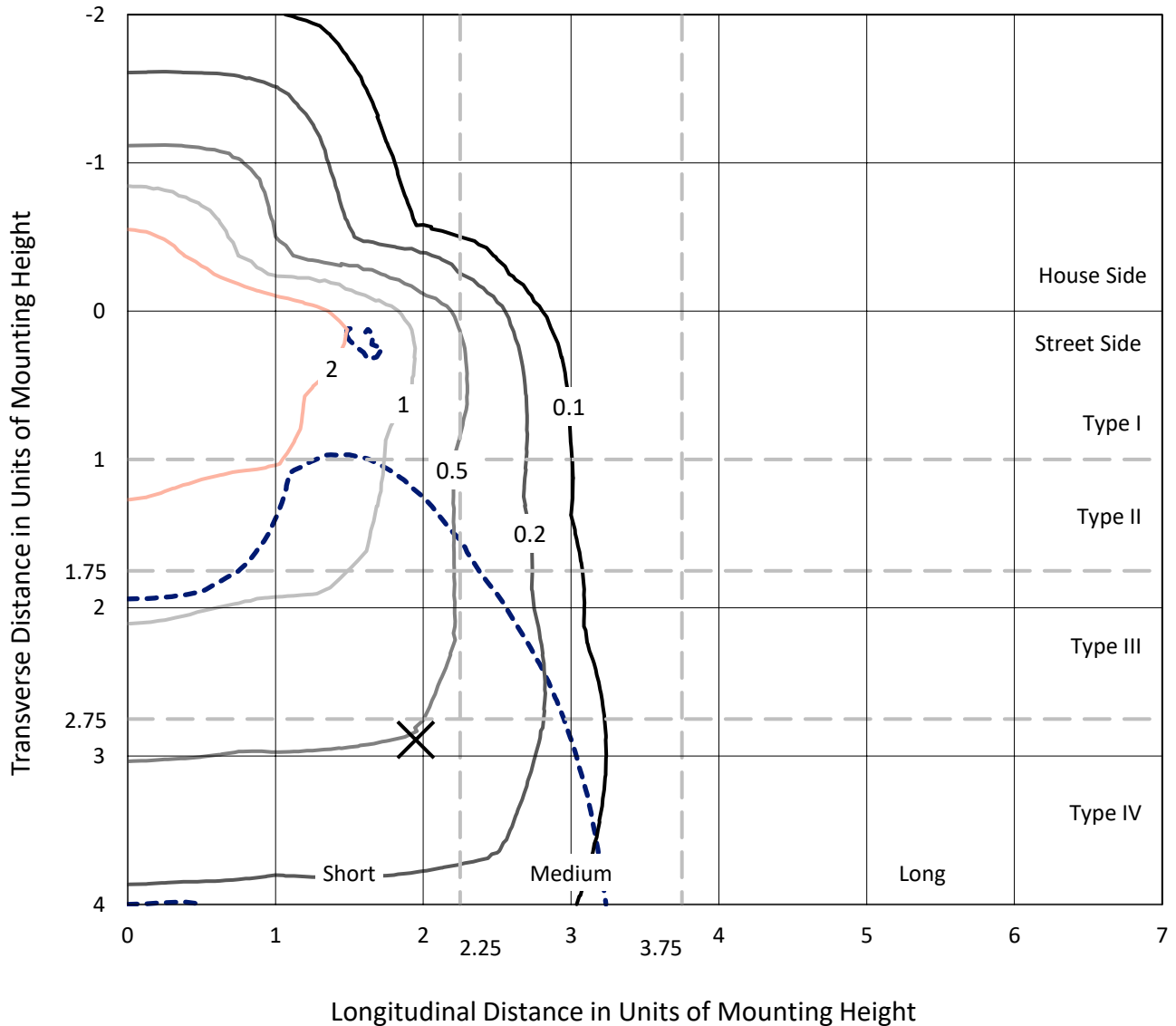
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

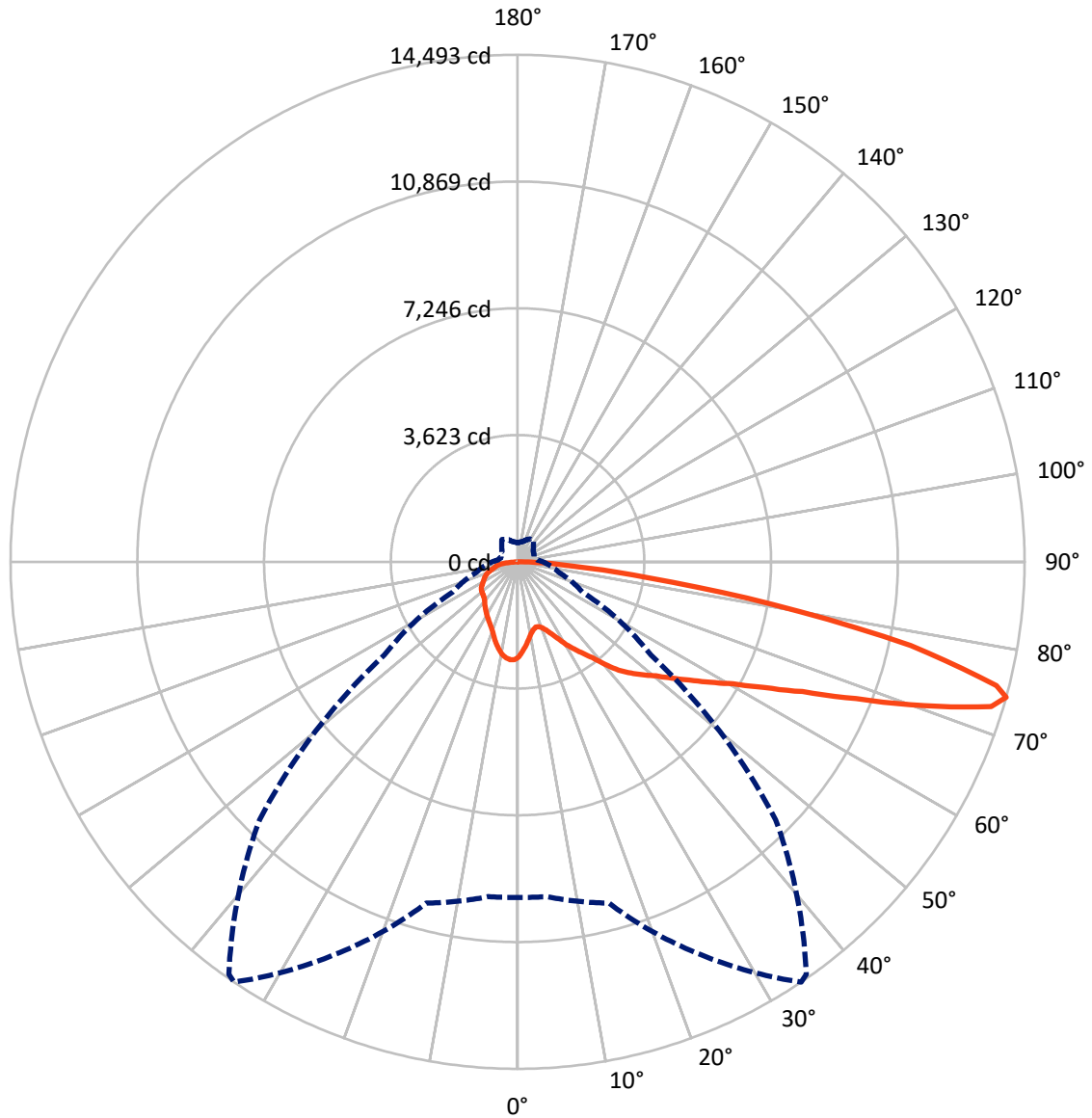
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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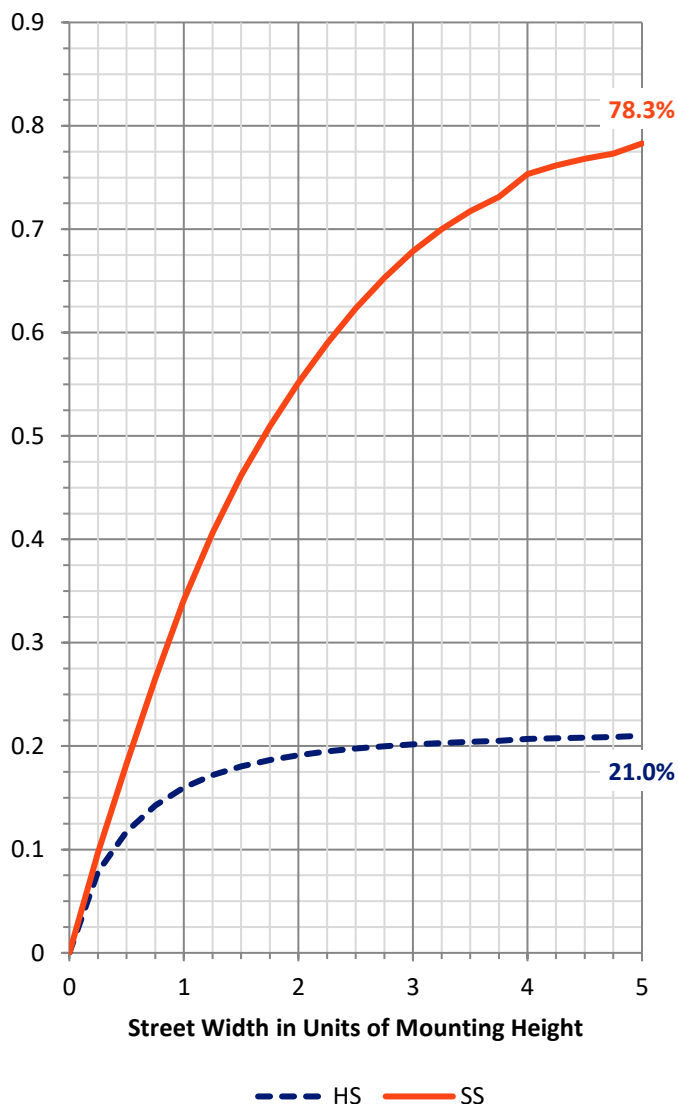
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3807.6	0.0	3807.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	14084.7	0.0	14084.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	17892.3	0.0	17892.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.4	1.4
10°-20°	680.1	3.8
20°-30°	1121.3	6.3
30°-40°	1679.6	9.4
40°-50°	2441.7	13.6
50°-60°	3410.5	19.1
60°-70°	4269.7	23.9
70°-80°	3530.7	19.7
80°-90°	510.2	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°	17892.3	100.0
0°-180°	17892.3	100.0

Coefficient of Utilization



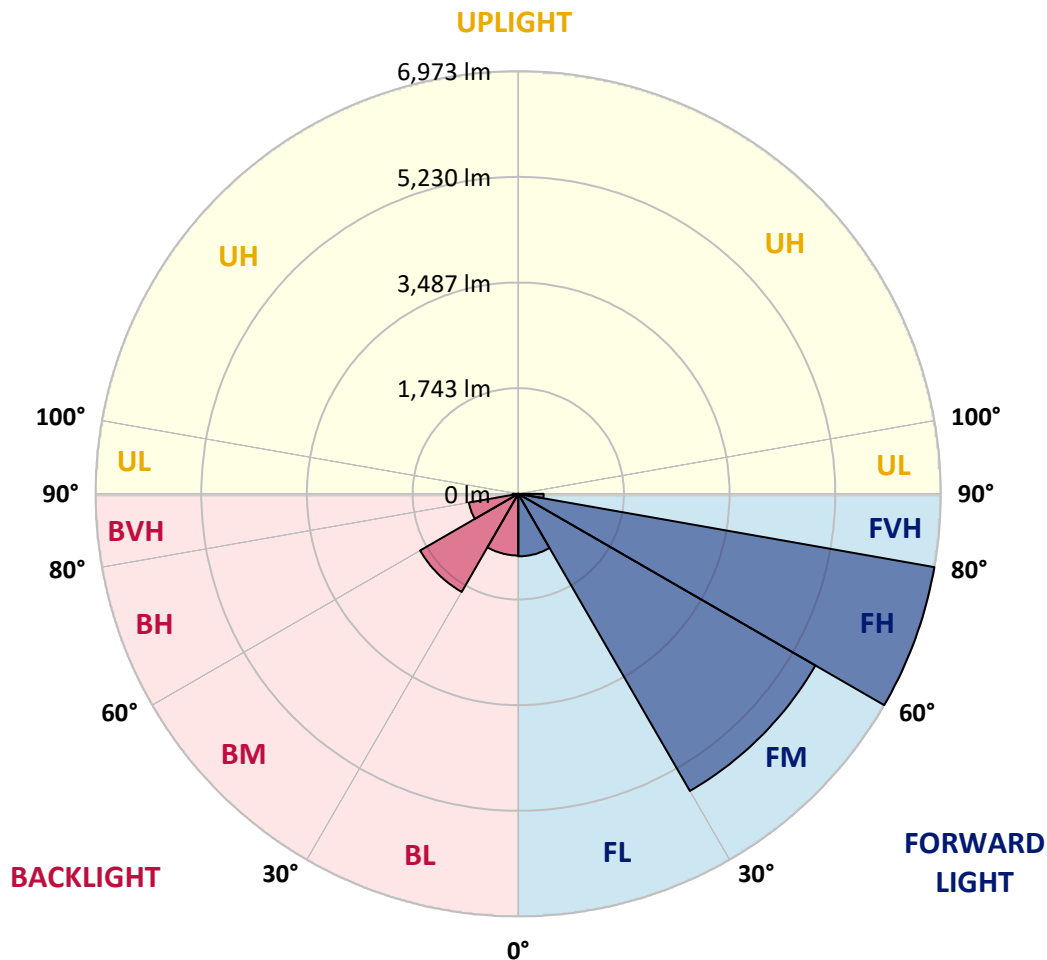
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1031.4	5.8			
FM (30°-60°)	5661.9	31.6			
FH (60°-80°)	6973.5	39.0			G3/7500
FVH (80°-90°)	417.9	2.3			G3/500
BL (0°-30°)	1018.5	5.7	B3/2500		
BM (30°-60°)	1869.9	10.5	B2/2500		
BH (60°-80°)	827.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	92.2	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°	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8
2.5°	2524.6	2537.5	2544.4	2569.3	2575.2	2583.1	2603.9	2631.7	2667.4	2699.1	2726.9
5°	2314.5	2334.4	2346.3	2368.0	2410.6	2414.6	2470.1	2533.6	2605.9	2673.3	2728.8
7.5°	2115.3	2137.0	2147.0	2186.6	2243.1	2252.1	2333.3	2433.5	2554.4	2656.5	2741.8
10°	1965.6	1976.5	1998.3	2028.0	2095.5	2101.4	2207.4	2341.2	2497.8	2648.6	2763.5
12.5°	1884.3	1890.2	1895.3	1927.0	1993.4	2002.3	2113.3	2264.9	2453.3	2654.5	2799.2
15°	1896.2	1898.2	1876.4	1882.3	1935.9	1948.7	2058.7	2214.4	2425.5	2669.3	2852.7
17.5°	1996.3	1989.4	1935.9	1908.1	1945.8	1951.7	2047.9	2194.6	2412.7	2697.1	2908.2
20°	2154.0	2144.0	2051.9	1990.4	2012.2	2017.2	2083.6	2209.5	2425.5	2742.7	2994.5
22.5°	2350.2	2346.3	2206.5	2132.1	2131.1	2131.1	2165.9	2262.9	2464.2	2805.2	3084.7
25°	2624.8	2603.9	2421.6	2325.4	2298.7	2296.7	2292.7	2351.2	2513.7	2871.6	3191.7
27.5°	2906.3	2870.6	2708.0	2560.3	2502.9	2495.9	2470.1	2476.1	2577.2	2946.9	3313.7
30°	3159.0	3136.2	2983.5	2820.1	2751.6	2735.8	2664.4	2631.7	2683.3	3082.7	3507.9
32.5°	3352.3	3338.4	3219.5	3070.8	2969.7	2966.7	2862.6	2835.9	2848.8	3247.3	3730.0
35°	3508.9	3513.9	3453.4	3324.5	3208.6	3191.7	3122.4	3088.6	3051.0	3485.1	4009.5
37.5°	3723.0	3733.9	3730.0	3618.9	3477.2	3481.1	3465.3	3409.8	3309.7	3750.8	4319.7
40°	3958.9	3966.8	3965.9	3923.2	3848.9	3852.9	3847.0	3783.5	3633.8	4088.8	4664.7
42.5°	4285.0	4247.4	4149.3	4191.9	4235.5	4254.4	4295.0	4234.5	4029.3	4449.6	4988.8
45°	4649.8	4578.4	4356.5	4376.3	4537.8	4573.5	4797.5	4714.3	4458.5	4863.9	5370.4
47.5°	4879.8	4809.4	4622.0	4618.1	4832.2	4866.9	5263.4	5232.6	4849.0	5310.9	5836.3
50°	5085.0	5075.0	4863.9	4914.5	5123.6	5175.2	5770.9	5742.1	5238.6	5838.3	6343.8
52.5°	5389.2	5309.0	5140.5	5244.5	5521.1	5588.5	6274.4	6190.2	5596.4	6304.2	6836.5
55°	5526.0	5507.2	5497.3	5587.5	5967.2	6015.7	6764.1	6570.8	5901.7	6698.6	7211.1
57.5°	5891.8	5857.2	5955.3	6016.7	6492.5	6566.9	7275.6	6968.3	6169.3	7011.9	7393.6
60°	6365.6	6346.8	6437.0	6548.0	7079.3	7192.3	7858.4	7307.3	6384.4	7169.5	7293.4
62.5°	7073.4	7071.4	7054.5	7292.4	7911.0	8015.0	8527.5	7637.4	6418.2	7051.5	6776.0
65°	8088.4	8052.7	7906.0	8165.7	8945.8	9067.7	9224.3	7821.7	6215.0	6445.9	5705.5
67.5°	9150.0	9147.9	9029.0	9366.0	10431.6	10557.5	10095.6	7781.1	5651.0	5221.7	4052.1
70°	10030.2	9987.6	10139.2	11037.2	12329.8	12475.5	10857.9	7302.3	4501.2	3448.5	2407.6
72.5°	10241.3	10243.3	10558.5	12325.8	14152.6	14175.4	11132.4	5918.6	3012.4	1902.1	1204.3
74°	9591.0	9607.9	10096.6	12390.3	14492.6	14389.6	10430.7	4651.8	2037.0	1242.0	868.3
75°	8754.5	8648.4	9355.1	11961.0	14139.8	14028.8	9608.9	3733.0	1554.3	992.2	760.3
77.5°	4680.5	4788.6	5878.9	8926.0	11487.2	11359.4	6515.3	1790.2	839.5	690.9	547.2
80°	1666.2	1837.7	2583.1	4670.6	7364.7	7404.4	3109.4	820.7	590.8	509.5	386.6
82.5°	680.0	698.8	1109.2	2072.7	3739.8	3775.5	1269.8	487.7	422.3	350.9	231.0
85°	265.7	273.6	490.6	931.8	1595.8	1700.0	439.1	257.7	259.7	201.2	117.9
87.5°	89.2	101.1	201.2	310.2	542.2	531.3	127.9	76.3	93.2	87.2	36.6
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°	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8
2.5°	2740.7	2759.5	2772.4	2786.3	2799.2	2803.1	2800.2	2809.1	2810.1	2811.1	2812.1
5°	2756.6	2782.4	2807.1	2821.0	2826.9	2822.0	2805.2	2796.2	2788.3	2782.4	2784.3
7.5°	2778.4	2815.0	2837.8	2843.8	2828.0	2805.2	2763.5	2730.8	2710.0	2696.1	2695.2
10°	2812.1	2847.8	2866.6	2849.7	2806.1	2750.6	2685.2	2623.8	2577.2	2563.3	2562.3
12.5°	2854.7	2895.4	2894.4	2844.8	2768.5	2669.3	2563.3	2491.9	2428.5	2396.8	2409.7
15°	2910.3	2940.9	2912.2	2823.0	2702.1	2566.3	2435.4	2338.3	2266.9	2233.2	2235.2
17.5°	2974.6	3001.4	2925.1	2784.3	2608.9	2434.4	2282.8	2190.6	2134.1	2109.3	2107.4
20°	3055.0	3062.9	2925.1	2716.9	2488.9	2280.8	2136.1	2071.7	2039.9	2027.0	2031.0
22.5°	3141.2	3125.3	2909.2	2621.8	2331.4	2120.2	2023.1	1994.3	1978.5	1976.5	1978.5
25°	3238.3	3193.7	2876.5	2492.9	2166.8	1981.5	1924.9	1929.9	1932.9	1932.9	1939.8
27.5°	3357.3	3268.1	2822.0	2330.4	1974.5	1852.6	1836.8	1871.4	1887.3	1890.2	1895.3
30°	3513.9	3349.4	2731.8	2127.2	1810.9	1736.6	1764.4	1810.9	1828.8	1839.7	1837.7
32.5°	3700.2	3438.5	2609.9	1924.0	1679.1	1655.3	1689.0	1736.6	1756.4	1762.4	1754.5
35°	3919.3	3539.6	2449.3	1733.6	1564.1	1578.1	1617.7	1632.6	1650.4	1650.4	1654.3
37.5°	4155.2	3620.9	2253.1	1559.2	1474.9	1525.5	1554.3	1540.4	1532.4	1522.5	1527.5
40°	4395.1	3681.4	1998.3	1386.7	1385.8	1470.9	1478.9	1439.2	1407.5	1397.7	1392.6
42.5°	4604.2	3719.1	1768.3	1252.9	1301.5	1417.5	1423.4	1360.0	1309.4	1279.7	1269.8
45°	4851.0	3762.7	1543.3	1141.8	1223.2	1374.8	1389.7	1304.5	1230.1	1167.7	1151.8
47.5°	5189.0	3861.8	1365.9	1055.6	1166.7	1348.1	1368.8	1258.8	1160.7	1079.4	1066.5
50°	5570.7	3997.6	1228.1	997.2	1123.1	1324.3	1350.0	1212.2	1096.3	1006.1	996.2
52.5°	5920.6	4071.0	1109.2	944.6	1080.5	1280.7	1325.2	1178.6	1032.9	932.7	923.8
55°	6111.9	3952.0	992.2	893.1	1022.0	1224.1	1290.5	1132.0	971.4	894.1	881.2
57.5°	6137.6	3706.2	886.1	837.6	960.5	1154.8	1226.2	1075.5	931.8	867.3	856.4
60°	5938.4	3339.4	803.9	792.0	898.0	1076.5	1153.8	1025.9	891.1	837.6	826.7
62.5°	5442.8	2940.9	746.4	750.3	834.6	994.2	1100.3	978.4	852.5	804.8	795.0
65°	4590.3	2427.5	690.9	707.8	778.1	929.7	1051.6	938.7	813.8	780.1	771.2
67.5°	3188.8	1752.5	645.3	663.1	724.6	864.4	995.2	896.1	770.2	752.3	738.4
70°	1765.4	1078.4	591.8	612.5	669.1	791.0	931.8	831.6	706.7	698.8	679.0
72.5°	927.8	686.9	531.3	554.1	593.7	696.8	834.6	761.2	644.3	610.6	584.8
74°	724.6	563.0	490.6	514.4	541.2	641.4	777.1	710.7	599.7	560.0	540.2
75°	631.4	501.6	455.9	486.7	510.5	603.6	732.5	675.0	574.9	537.2	519.4
77.5°	446.1	375.7	372.7	409.4	422.3	529.3	660.1	614.6	512.5	472.8	455.9
80°	313.2	281.5	295.3	318.2	336.0	467.8	612.5	531.3	420.3	373.7	367.8
82.5°	204.2	184.4	211.1	231.9	237.9	344.9	494.6	403.4	306.3	248.8	231.0
85°	94.2	92.2	120.9	117.9	117.0	168.5	293.4	235.9	176.4	131.9	123.9
87.5°	23.8	22.8	29.8	24.7	29.8	25.8	26.8	7.0	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)