

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: P646920

Luminaire Tested: **GALN-SA4C-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646920
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-SA4C-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 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: 21729.1 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

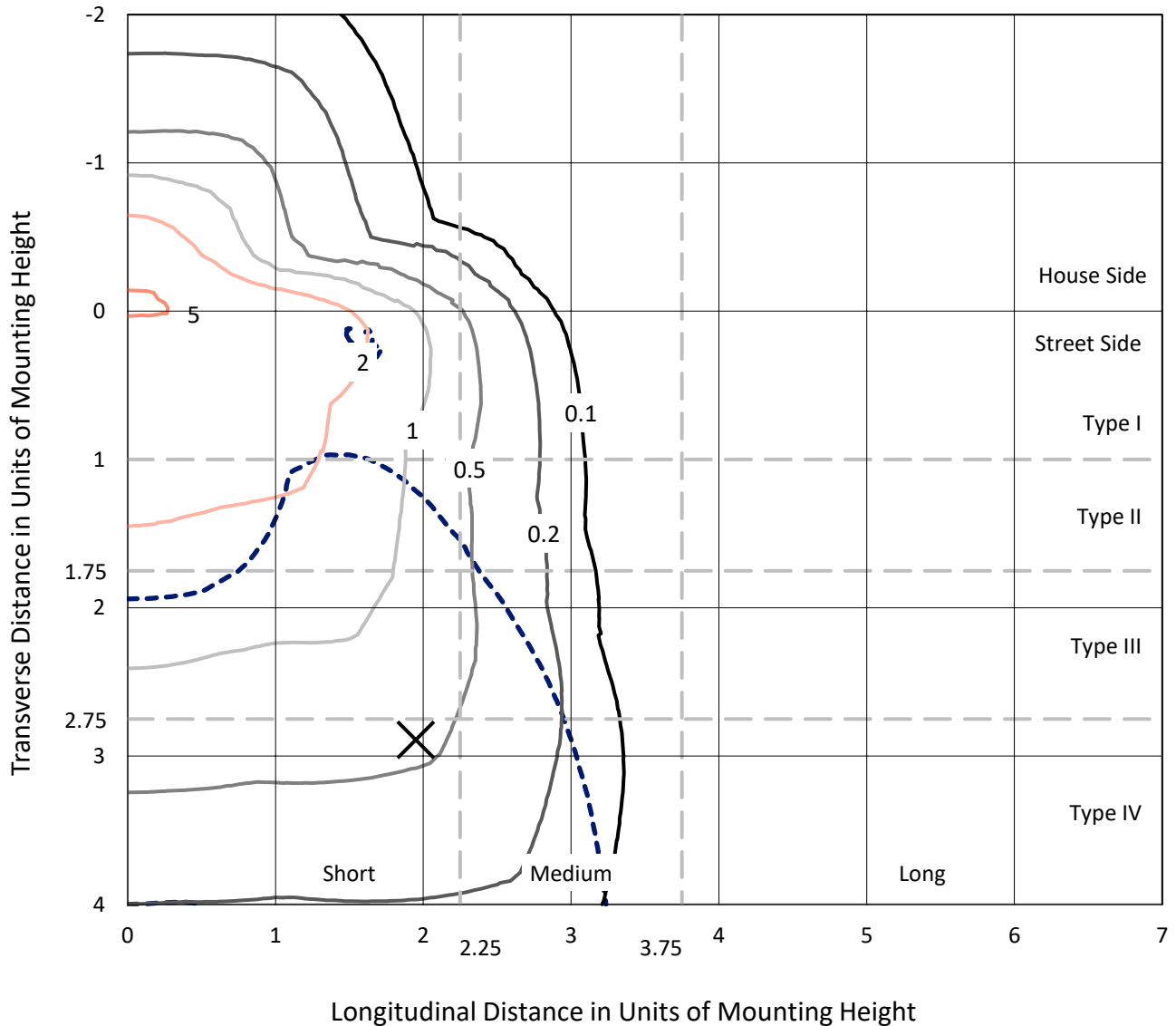
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

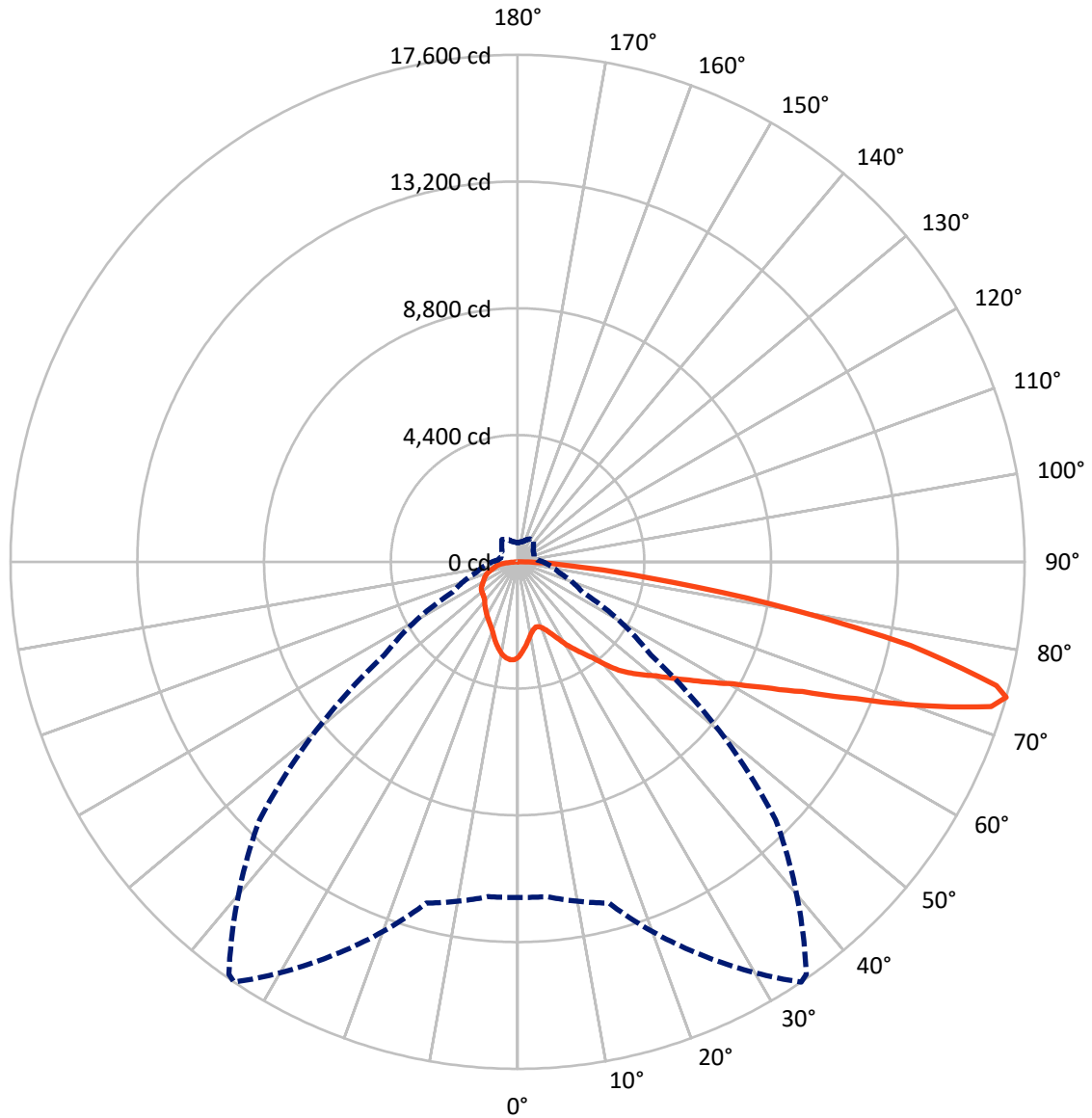
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	4624.1	0.0	4624.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	17105.0	0.0	17105.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	21729.1	0.0	21729.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.7	1.4
10°-20°	825.9	3.8
20°-30°	1361.8	6.3
30°-40°	2039.8	9.4
40°-50°	2965.3	13.6
50°-60°	4141.8	19.1
60°-70°	5185.3	23.9
70°-80°	4287.8	19.7
80°-90°	619.6	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°	21729.1	100.0
0°-180°	21729.1	100.0

Coefficient of Utilization



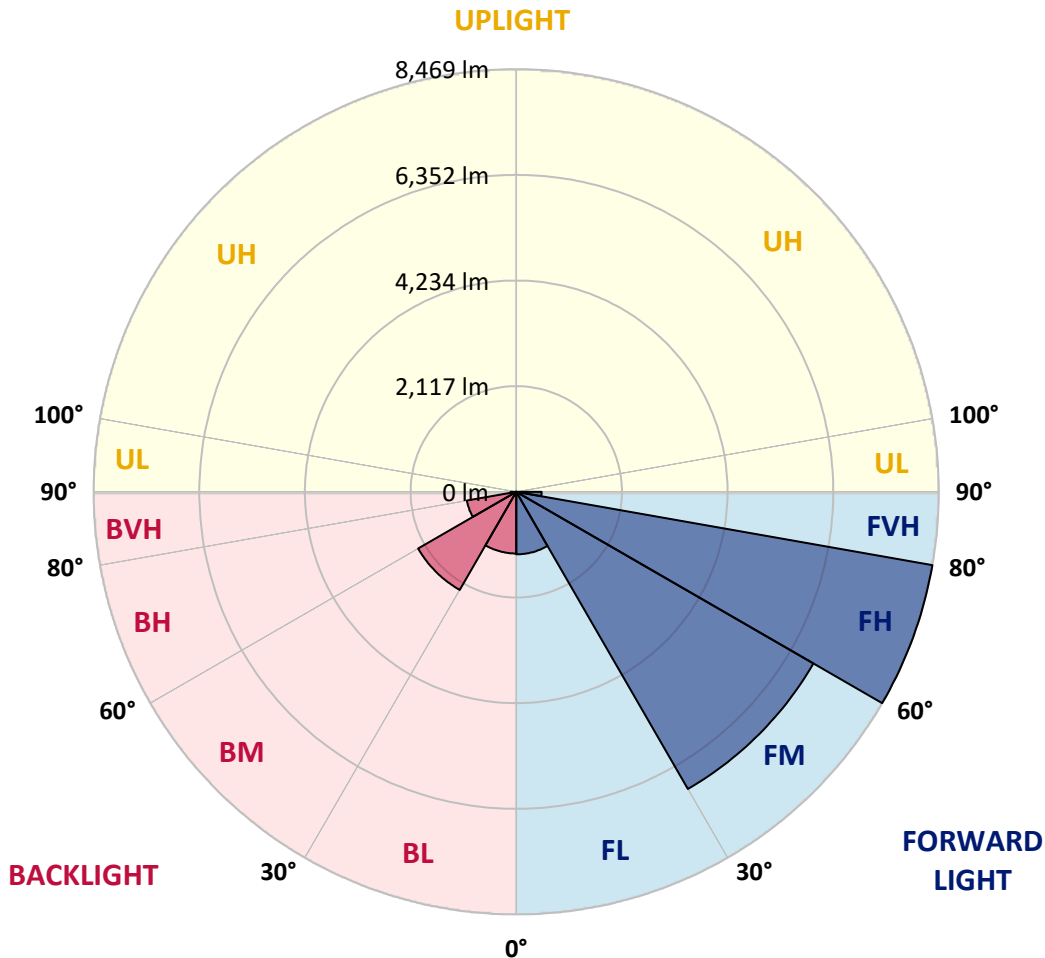
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1252.6	5.8			
FM (30°-60°)	6876.0	31.6			
FH (60°-80°)	8468.8	39.0			G4/12000
FVH (80°-90°)	507.6	2.3			G4/750
BL (0°-30°)	1236.9	5.7	B3/2500		
BM (30°-60°)	2270.9	10.5	B2/2500		
BH (60°-80°)	1004.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	112.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6
2.5°	3066.0	3081.7	3090.1	3120.2	3127.4	3137.0	3162.3	3196.0	3239.3	3277.9	3311.5
5°	2810.8	2834.9	2849.3	2875.8	2927.6	2932.4	2999.8	3076.9	3164.7	3246.6	3314.0
7.5°	2568.9	2595.3	2607.4	2655.5	2724.1	2734.9	2833.7	2955.3	3102.1	3226.1	3329.6
10°	2387.1	2400.3	2426.8	2462.9	2544.8	2552.0	2680.8	2843.3	3033.5	3216.5	3356.1
12.5°	2288.4	2295.6	2301.6	2340.2	2420.8	2431.6	2566.4	2750.6	2979.3	3223.7	3399.5
15°	2302.8	2305.2	2278.8	2286.0	2351.0	2366.6	2500.2	2689.2	2945.6	3241.8	3464.5
17.5°	2424.4	2415.9	2351.0	2317.3	2363.0	2370.2	2487.0	2665.2	2930.0	3275.4	3531.9
20°	2615.8	2603.8	2491.8	2417.2	2443.7	2449.7	2530.3	2683.2	2945.6	3330.8	3636.6
22.5°	2854.1	2849.3	2679.6	2589.3	2588.1	2588.1	2630.3	2748.2	2992.5	3406.7	3746.1
25°	3187.6	3162.3	2940.8	2824.0	2791.6	2789.1	2784.3	2855.4	3052.8	3487.3	3876.2
27.5°	3529.5	3486.2	3288.7	3109.4	3039.5	3031.1	2999.8	3007.0	3129.8	3578.8	4024.2
30°	3836.4	3808.7	3623.3	3424.8	3341.7	3322.4	3235.7	3196.0	3258.6	3743.8	4260.1
32.5°	4071.1	4054.3	3909.8	3729.3	3606.5	3602.9	3476.5	3444.0	3459.6	3943.6	4529.8
35°	4261.3	4267.4	4193.9	4037.5	3896.6	3876.2	3791.9	3751.0	3705.2	4232.4	4869.2
37.5°	4521.4	4534.6	4529.8	4395.0	4222.8	4227.7	4208.4	4141.0	4019.4	4555.1	5246.0
40°	4807.9	4817.5	4816.3	4764.6	4674.3	4679.1	4671.8	4594.8	4413.0	4965.6	5664.9
42.5°	5203.9	5158.2	5039.0	5090.8	5143.7	5166.5	5216.0	5142.5	4893.4	5403.7	6058.6
45°	5646.9	5560.2	5290.6	5314.6	5510.8	5554.2	5826.2	5725.1	5414.6	5906.9	6522.0
47.5°	5926.1	5840.7	5613.2	5608.4	5868.4	5910.6	6392.0	6354.7	5888.9	6449.8	7087.8
50°	6175.4	6163.3	5906.9	5968.3	6222.3	6284.9	7008.3	6973.5	6362.0	7090.2	7704.2
52.5°	6544.9	6447.4	6242.8	6369.2	6705.0	6786.9	7619.8	7517.6	6796.5	7656.0	8302.4
55°	6711.0	6688.2	6676.1	6785.6	7246.7	7305.7	8214.5	7979.8	7167.3	8135.1	8757.5
57.5°	7155.2	7113.1	7232.3	7306.9	7884.7	7975.0	8835.7	8462.5	7492.3	8515.5	8978.9
60°	7730.6	7707.8	7817.3	7952.1	8597.3	8734.6	9543.5	8874.2	7753.5	8706.9	8857.4
62.5°	8590.1	8587.7	8567.3	8856.1	9607.3	9733.7	10356.0	9275.0	7794.5	8563.6	8229.0
65°	9822.7	9779.4	9601.3	9916.7	10864.0	11012.1	11202.3	9499.0	7547.7	7828.1	6928.9
67.5°	11112.0	11109.6	10965.1	11374.4	12668.5	12821.4	12260.4	9449.6	6862.7	6341.4	4921.0
70°	12181.0	12129.2	12313.4	13404.0	14973.7	15150.7	13186.1	8868.2	5466.4	4188.0	2924.0
72.5°	12437.3	12439.8	12822.6	14968.9	17187.5	17215.1	13519.6	7187.7	3658.3	2310.0	1462.6
74°	11647.7	11668.2	12261.6	15047.1	17600.4	17475.2	12667.3	5649.3	2473.7	1508.3	1054.5
75°	10631.7	10502.9	11361.2	14525.9	17171.8	17037.0	11669.4	4533.4	1887.5	1205.0	923.3
77.5°	5684.2	5815.4	7139.6	10839.9	13950.5	13795.2	7912.4	2174.0	1019.6	839.1	664.5
80°	2023.5	2231.8	3137.0	5672.2	8944.1	8992.2	3776.3	996.8	717.5	618.7	469.5
82.5°	825.8	848.7	1347.0	2517.1	4541.8	4585.2	1542.0	592.3	512.8	426.1	280.5
85°	322.6	332.2	595.9	1131.5	1938.1	2064.5	533.3	313.0	315.4	244.4	143.2
87.5°	108.4	122.8	244.4	376.8	658.4	645.2	155.3	92.7	113.1	105.9	44.6
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°	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6
2.5°	3328.5	3351.3	3367.0	3383.8	3399.5	3404.2	3400.6	3411.5	3412.7	3413.9	3415.1
5°	3347.7	3379.0	3409.1	3425.9	3433.1	3427.1	3406.7	3395.9	3386.2	3379.0	3381.4
7.5°	3374.2	3418.7	3446.4	3453.7	3434.4	3406.7	3356.1	3316.4	3291.1	3274.3	3273.0
10°	3415.1	3458.4	3481.3	3460.9	3407.9	3340.4	3261.0	3186.4	3129.8	3113.0	3111.7
12.5°	3466.9	3516.2	3515.0	3454.8	3362.1	3241.8	3113.0	3026.3	2949.2	2910.7	2926.4
15°	3534.3	3571.6	3536.7	3428.4	3281.5	3116.6	2957.7	2839.7	2753.0	2712.1	2714.5
17.5°	3612.5	3645.0	3552.3	3381.4	3168.3	2956.5	2772.3	2660.3	2591.7	2561.7	2559.2
20°	3710.0	3719.6	3552.3	3299.6	3022.7	2769.9	2594.2	2515.9	2477.3	2461.7	2466.5
22.5°	3814.8	3795.5	3533.1	3184.0	2831.2	2574.9	2456.9	2422.0	2402.7	2400.3	2402.7
25°	3932.7	3878.5	3493.4	3027.5	2631.4	2406.3	2337.7	2343.8	2347.4	2347.4	2355.8
27.5°	4077.2	3968.9	3427.1	2830.1	2397.9	2249.9	2230.6	2272.7	2292.0	2295.6	2301.6
30°	4267.4	4067.5	3317.6	2583.3	2199.3	2109.0	2142.7	2199.3	2221.0	2234.2	2231.8
32.5°	4493.7	4175.9	3169.5	2336.6	2039.2	2010.3	2051.2	2109.0	2133.0	2140.3	2130.7
35°	4759.7	4298.7	2974.5	2105.4	1899.6	1916.4	1964.5	1982.6	2004.2	2004.2	2009.1
37.5°	5046.2	4397.4	2736.2	1893.5	1791.2	1852.6	1887.5	1870.7	1861.0	1849.0	1855.0
40°	5337.6	4470.8	2426.8	1684.1	1682.9	1786.4	1796.0	1747.9	1709.4	1697.3	1691.3
42.5°	5591.5	4516.6	2147.5	1521.6	1580.6	1721.4	1728.6	1651.6	1590.2	1554.1	1542.0
45°	5891.3	4569.5	1874.3	1386.8	1485.4	1669.7	1687.7	1584.2	1493.9	1418.0	1398.8
47.5°	6301.7	4689.9	1658.8	1282.0	1416.8	1637.1	1662.4	1528.8	1409.6	1310.9	1295.2
50°	6765.2	4854.8	1491.5	1211.0	1363.9	1608.2	1639.5	1472.2	1331.3	1221.8	1209.8
52.5°	7190.1	4943.9	1347.0	1147.2	1312.1	1555.3	1609.5	1431.2	1254.4	1132.8	1121.9
55°	7422.4	4799.4	1205.0	1084.6	1241.1	1486.7	1567.3	1374.7	1179.7	1085.8	1070.1
57.5°	7453.8	4500.9	1076.2	1017.2	1166.4	1402.4	1489.0	1306.1	1131.5	1053.3	1040.1
60°	7211.8	4055.5	976.2	961.8	1090.6	1307.3	1401.2	1245.9	1082.2	1017.2	1004.0
62.5°	6609.9	3571.6	906.4	911.3	1013.6	1207.4	1336.2	1188.1	1035.2	977.5	965.4
65°	5574.6	2948.1	839.1	859.5	944.9	1129.2	1277.2	1140.0	988.3	947.4	936.5
67.5°	3872.6	2128.3	783.6	805.3	879.9	1049.7	1208.6	1088.2	935.3	913.7	896.8
70°	2143.9	1309.7	718.6	743.9	812.5	960.6	1131.5	1010.0	858.3	848.7	824.6
72.5°	1126.7	834.2	645.2	672.9	721.1	846.3	1013.6	924.5	782.5	741.5	710.3
74°	879.9	683.7	595.9	624.8	657.3	778.9	943.7	863.1	728.3	680.1	656.1
75°	766.8	609.1	553.7	591.1	620.0	733.1	889.6	819.8	698.2	652.5	630.8
77.5°	541.7	456.3	452.7	497.1	512.8	642.8	801.7	746.4	622.3	574.2	553.7
80°	380.4	341.9	358.7	386.4	408.1	568.1	743.9	645.2	510.4	453.8	446.6
82.5°	248.0	223.9	256.4	281.6	288.9	418.9	600.7	489.9	372.0	302.2	280.5
85°	114.4	112.0	146.9	143.2	142.0	204.7	356.3	286.5	214.3	160.1	150.5
87.5°	28.9	27.7	36.1	30.1	36.1	31.3	32.5	8.5	1.2	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)