

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: P522740

Luminaire Tested: **GALN-SA4C-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23276 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

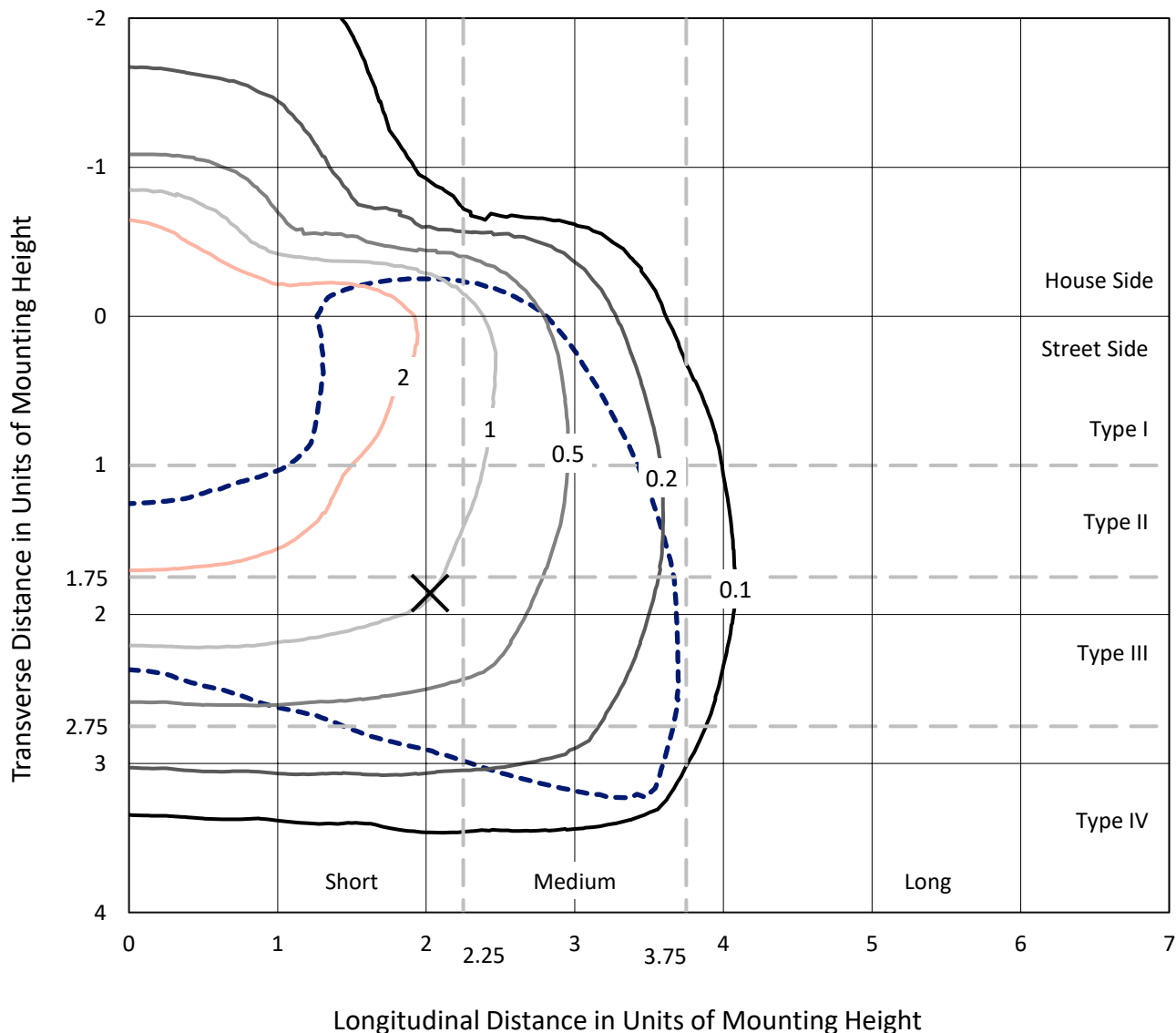
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

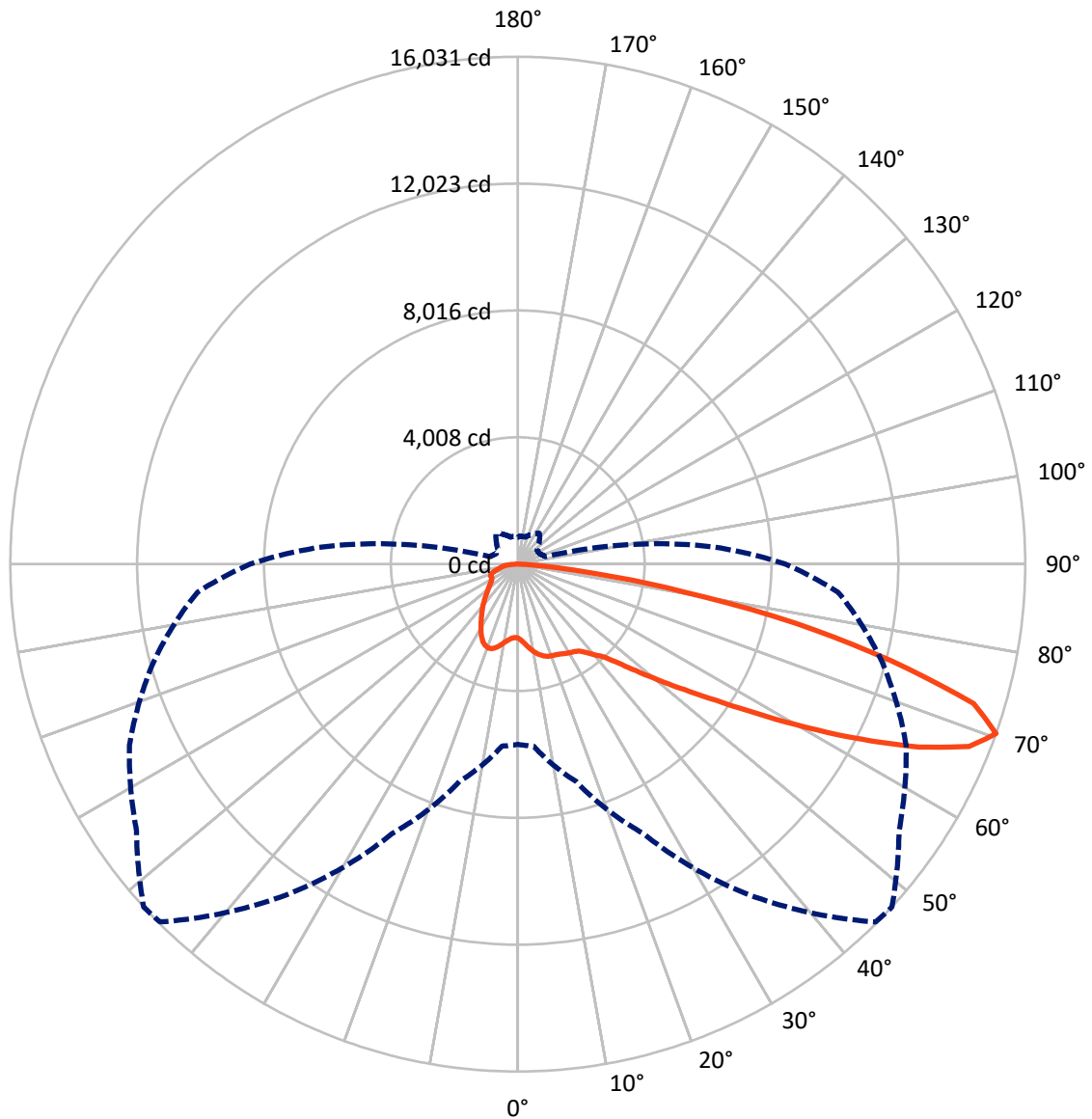
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5270.1	0.0	5270.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	18005.9	0.0	18005.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	23276.0	0.0	23276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	1.0
10°-20°	805.2	3.5
20°-30°	1339.0	5.8
30°-40°	1897.9	8.2
40°-50°	2801.7	12.0
50°-60°	4852.7	20.8
60°-70°	6854.6	29.4
70°-80°	3940.4	16.9
80°-90°	543.7	2.3
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°	23276.0	100.0
0°-180°	23276.0	100.0

Coefficient of Utilization



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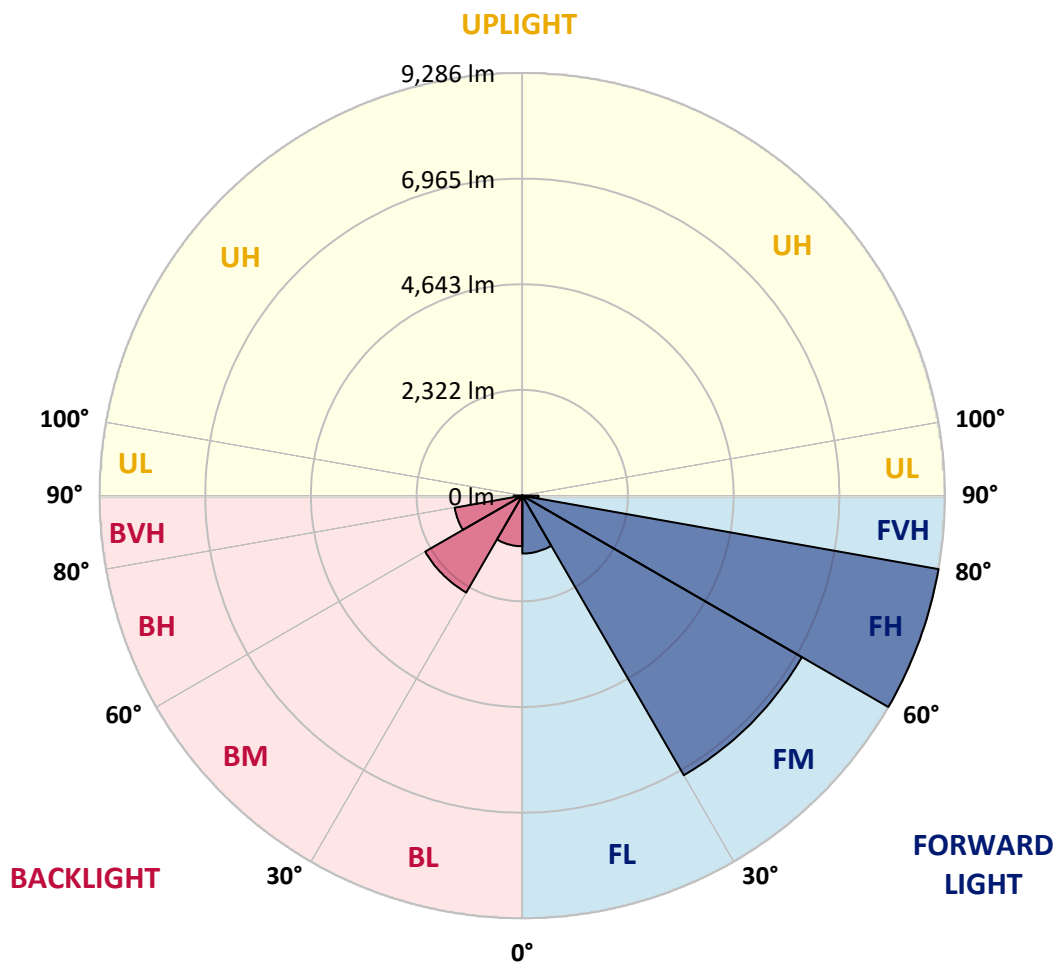
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1272.8	5.5			
FM (30°-60°)	7091.7	30.5			
FH (60°-80°)	9286.2	39.9			G4/12000
FVH (80°-90°)	355.1	1.5			G3/500
BL (0°-30°)	1112.3	4.8	B3/2500		
BM (30°-60°)	2460.5	10.6	B2/2500		
BH (60°-80°)	1508.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	188.5	0.8			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°	35°	45°	47.5°	55°	65°	75°	85°
0°	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6
2.5°	2487.3	2478.6	2477.4	2458.7	2448.7	2430.0	2422.6	2405.1	2384.0	2362.8	2342.9
5°	2682.9	2682.9	2674.2	2648.0	2606.9	2564.6	2545.9	2512.3	2452.5	2403.9	2362.8
7.5°	2883.4	2885.9	2868.5	2829.9	2771.3	2702.8	2685.4	2635.6	2550.9	2479.9	2418.8
10°	3056.6	3056.6	3032.9	2980.6	2907.1	2832.4	2814.9	2758.9	2664.2	2575.8	2496.1
12.5°	3188.6	3188.6	3157.4	3088.9	3009.2	2942.0	2922.0	2868.5	2780.0	2681.6	2580.8
15°	3274.5	3268.3	3233.4	3156.2	3079.0	3020.4	3006.7	2961.9	2880.9	2781.3	2667.9
17.5°	3278.3	3275.8	3242.1	3177.4	3110.1	3070.3	3061.5	3031.6	2968.1	2873.5	2753.9
20°	3206.0	3211.0	3188.6	3142.5	3110.1	3092.7	3088.9	3079.0	3034.1	2945.7	2826.1
22.5°	3128.8	3137.5	3116.3	3091.4	3088.9	3106.4	3108.9	3111.4	3082.7	2996.8	2887.2
25°	3110.1	3116.3	3095.2	3072.7	3086.4	3132.5	3142.5	3152.5	3130.0	3057.8	2959.4
27.5°	3204.8	3199.8	3158.7	3110.1	3118.8	3181.1	3194.8	3206.0	3194.8	3132.5	3049.1
30°	3472.6	3456.4	3374.2	3232.2	3187.3	3230.9	3244.6	3275.8	3275.8	3229.7	3146.2
32.5°	3921.0	3889.8	3739.1	3460.1	3304.4	3278.3	3292.0	3343.0	3369.2	3333.1	3242.1
35°	4465.3	4432.9	4217.4	3842.5	3518.6	3372.9	3369.2	3426.5	3496.2	3415.3	3296.9
37.5°	5012.0	4978.4	4719.3	4298.4	3831.3	3572.2	3549.8	3569.7	3599.6	3451.4	3372.9
40°	5558.8	5519.0	5292.3	4807.8	4213.7	3836.3	3777.7	3688.0	3675.6	3569.7	3519.9
42.5°	6100.6	6064.5	5949.9	5379.5	4672.0	4094.1	4004.4	3850.0	3897.3	3833.8	3790.2
45°	6647.4	6649.9	6527.9	6020.9	5225.0	4569.9	4449.1	4207.4	4319.5	4295.9	4320.8
47.5°	7132.0	7125.7	7082.1	6643.7	5911.3	5182.7	5027.0	4746.7	4938.6	5025.7	5216.3
50°	7601.5	7597.8	7600.3	7349.9	6708.5	5911.3	5739.4	5445.5	5877.7	6180.4	6521.6
52.5°	8274.1	8295.3	8144.6	8078.6	7677.5	6772.0	6582.7	6278.8	6987.5	7464.5	8130.9
55°	8949.2	8931.8	8813.4	8881.9	8691.4	7790.8	7592.8	7351.2	8223.0	8744.9	9746.3
57.5°	9346.5	9352.7	9473.6	9808.6	9943.1	9061.3	8881.9	8695.1	9611.8	9981.7	11183.7
60°	9704.0	9732.6	10080.1	10712.9	11077.8	10622.0	10462.5	10280.7	10886.0	11033.0	12431.7
62.5°	9816.1	9904.5	10511.1	11457.7	12183.9	12383.1	12185.1	11784.0	12099.2	12041.9	13277.4
65°	9256.8	9377.7	10465.0	11736.7	13171.6	14054.7	13928.9	13184.0	13133.0	12787.9	13415.7
67.5°	7784.6	7905.4	9301.7	11151.3	13580.1	15502.0	15376.2	14205.4	13760.7	12857.7	12369.4
70°	5695.8	5771.8	7107.0	9388.9	12759.3	15987.7	16031.3	14703.6	13536.5	11909.8	10156.1
72.5°	3282.0	3450.1	4385.5	6605.1	10423.9	14759.6	15062.3	13667.3	12119.1	9935.7	7100.8
75°	1411.2	1414.9	2027.7	3643.2	7059.7	11863.8	12156.5	11329.4	9517.2	6870.4	3791.4
77.5°	671.3	683.8	891.8	1626.7	3886.1	8196.9	8986.6	8003.8	6086.9	3300.7	1432.4
80°	435.9	444.7	545.5	807.1	1905.7	4753.0	5303.5	4617.2	2685.4	1179.5	617.8
82.5°	264.1	266.5	364.9	493.2	1048.7	2152.3	2537.2	2004.1	1145.9	706.2	363.7
85°	160.7	161.9	221.7	305.2	636.5	743.6	763.5	757.3	672.6	462.1	194.3
87.5°	77.2	79.7	114.6	144.5	250.4	230.4	218.0	252.8	317.6	249.1	83.5
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°	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6
2.5°	2334.1	2330.4	2321.7	2317.9	2315.5	2316.7	2315.5	2315.5	2316.7	2316.7	2316.7
5°	2345.3	2339.1	2325.4	2325.4	2332.9	2350.3	2366.5	2379.0	2392.7	2391.4	2391.4
7.5°	2393.9	2382.7	2366.5	2371.5	2390.2	2417.6	2446.2	2473.6	2501.0	2503.5	2502.3
10°	2464.9	2453.7	2436.3	2442.5	2472.4	2513.5	2549.6	2589.5	2619.4	2628.1	2625.6
12.5°	2545.9	2523.5	2508.5	2526.0	2573.3	2628.1	2663.0	2692.9	2714.0	2726.5	2721.5
15°	2628.1	2606.9	2589.5	2625.6	2682.9	2734.0	2751.4	2756.4	2760.1	2772.6	2770.1
17.5°	2707.8	2679.2	2672.9	2720.3	2775.1	2797.5	2787.5	2766.3	2750.1	2760.1	2758.9
20°	2778.8	2756.4	2753.9	2801.2	2822.4	2801.2	2758.9	2721.5	2692.9	2695.3	2694.1
22.5°	2846.1	2828.6	2831.1	2851.0	2817.4	2745.2	2675.4	2624.3	2593.2	2599.4	2603.2
25°	2920.8	2903.4	2909.6	2877.2	2766.3	2640.5	2539.7	2496.1	2483.6	2496.1	2504.8
27.5°	3017.9	3006.7	3003.0	2878.4	2675.4	2486.1	2371.5	2355.3	2366.5	2393.9	2407.6
30°	3122.6	3122.6	3102.6	2857.3	2550.9	2300.5	2200.9	2203.4	2242.0	2280.6	2294.3
32.5°	3223.5	3244.6	3182.4	2800.0	2390.2	2119.9	2043.9	2046.4	2080.0	2127.4	2139.8
35°	3306.9	3367.9	3250.9	2695.3	2200.9	1968.0	1910.7	1877.0	1878.3	1914.4	1924.4
37.5°	3421.5	3534.8	3290.7	2539.7	1999.1	1838.4	1773.6	1715.1	1676.5	1661.5	1661.5
40°	3620.8	3787.7	3300.7	2309.2	1808.5	1715.1	1622.9	1553.2	1478.5	1411.2	1398.7
42.5°	3958.3	4168.8	3280.7	2043.9	1636.6	1579.3	1489.7	1403.7	1300.3	1205.7	1198.2
45°	4556.2	4664.5	3227.2	1768.7	1483.4	1448.6	1361.4	1268.0	1158.4	1073.7	1067.4
47.5°	5514.0	5360.8	3156.2	1524.5	1343.9	1334.0	1266.7	1158.4	1048.7	990.2	984.0
50°	6912.7	6456.9	3146.2	1347.7	1231.8	1236.8	1182.0	1082.4	986.5	937.9	930.4
52.5°	8596.7	7780.9	3212.2	1223.1	1133.4	1152.1	1124.7	1032.6	947.9	906.8	899.3
55°	10230.9	8971.6	3252.1	1126.0	1041.3	1076.1	1079.9	1002.7	925.4	884.3	879.4
57.5°	11557.4	9868.4	3075.2	1037.5	961.6	1015.1	1042.5	985.2	914.2	883.1	878.1
60°	12480.3	10291.9	2572.0	959.1	903.0	966.5	1028.8	986.5	941.6	945.4	947.9
62.5°	12774.2	10103.8	1929.3	900.5	863.2	950.3	1051.2	1037.5	991.4	1020.1	1025.1
65°	12287.2	9326.6	1398.7	854.4	828.3	961.6	1118.5	1074.9	974.0	995.2	995.2
67.5°	10656.8	8035.0	1088.6	812.1	788.4	982.7	1185.8	1071.2	932.9	957.8	935.4
70°	8453.5	6215.2	906.8	764.8	746.1	951.6	1192.0	1032.6	884.3	889.3	847.0
72.5°	5609.9	4086.6	779.7	719.9	681.3	855.7	1140.9	982.7	837.0	808.4	766.0
75°	2748.9	2037.7	680.1	663.9	596.6	744.8	1071.2	935.4	785.9	741.1	717.4
77.5°	1064.9	866.9	580.4	592.9	519.4	656.4	979.0	868.1	718.7	657.6	639.0
80°	516.9	492.0	475.8	494.5	427.2	559.2	894.3	809.6	656.4	589.1	561.7
82.5°	321.3	303.9	364.9	384.9	328.8	510.7	848.2	759.8	577.9	488.3	465.8
85°	163.2	174.4	244.1	262.8	235.4	406.0	698.7	570.5	417.3	346.3	348.8
87.5°	62.3	83.5	128.3	138.3	125.8	214.2	384.9	332.6	267.8	181.8	168.1
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)