

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: P522734

Luminaire Tested: **GALN-SA4B-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522734
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-SA4B-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22526 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

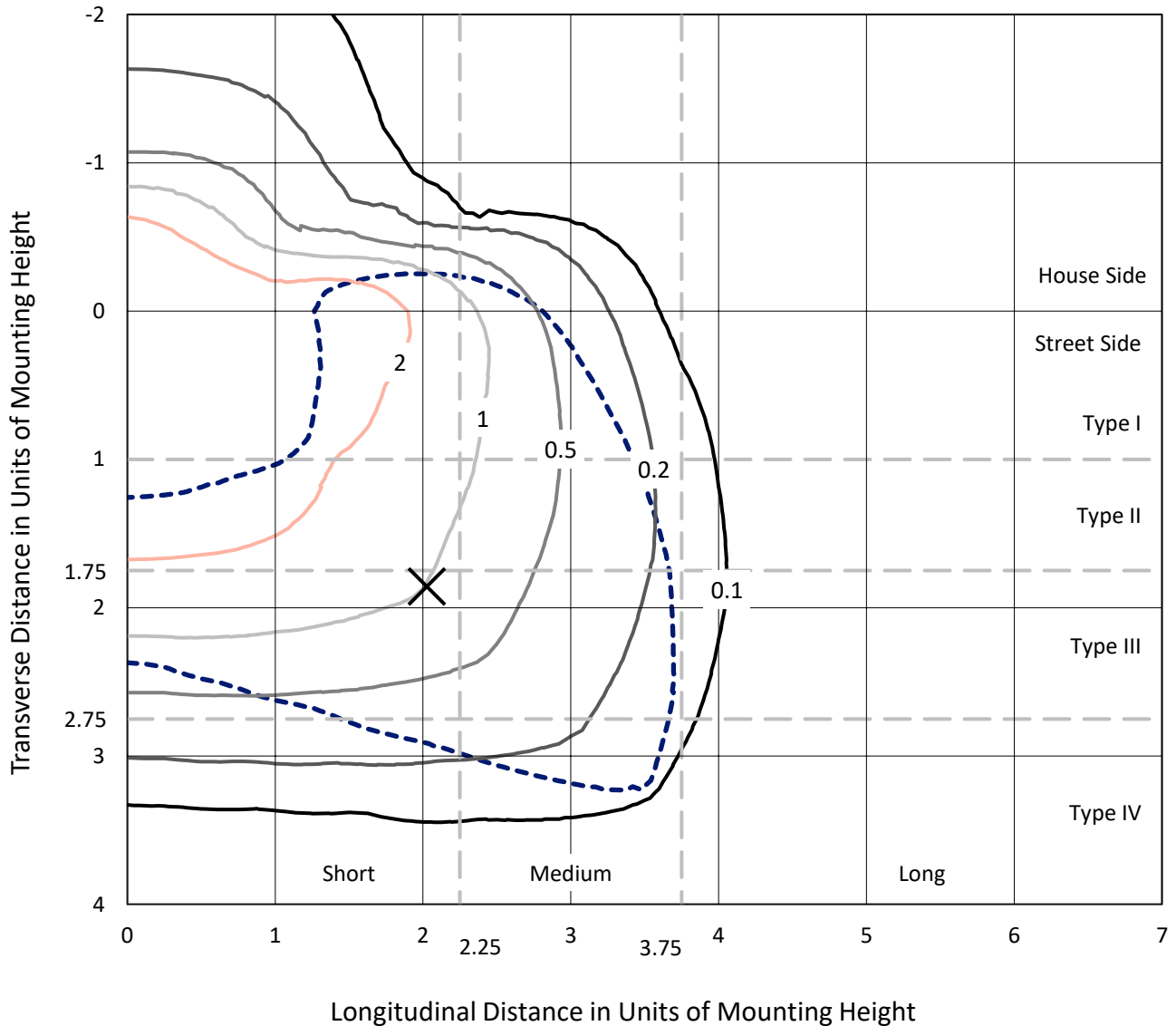
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

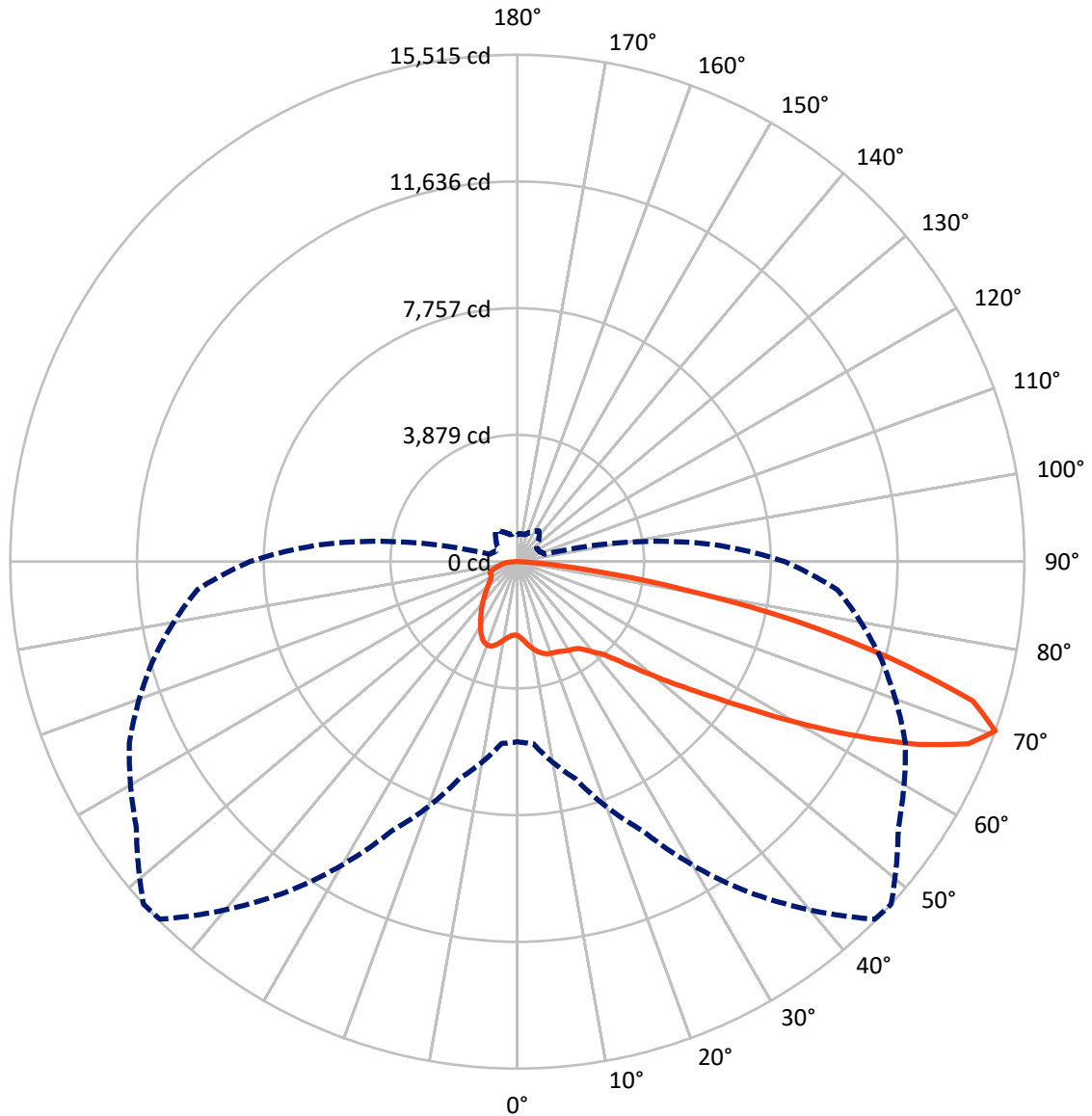
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	5100.3	0.0	5100.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	17425.7	0.0	17425.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	22526.0	0.0	22526.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.1	1.0
10°-20°	779.3	3.5
20°-30°	1295.9	5.8
30°-40°	1836.7	8.2
40°-50°	2711.4	12.0
50°-60°	4696.3	20.8
60°-70°	6633.7	29.4
70°-80°	3813.4	16.9
80°-90°	526.2	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°	22526.0	100.0
0°-180°	22526.0	100.0

Coefficient of Utilization



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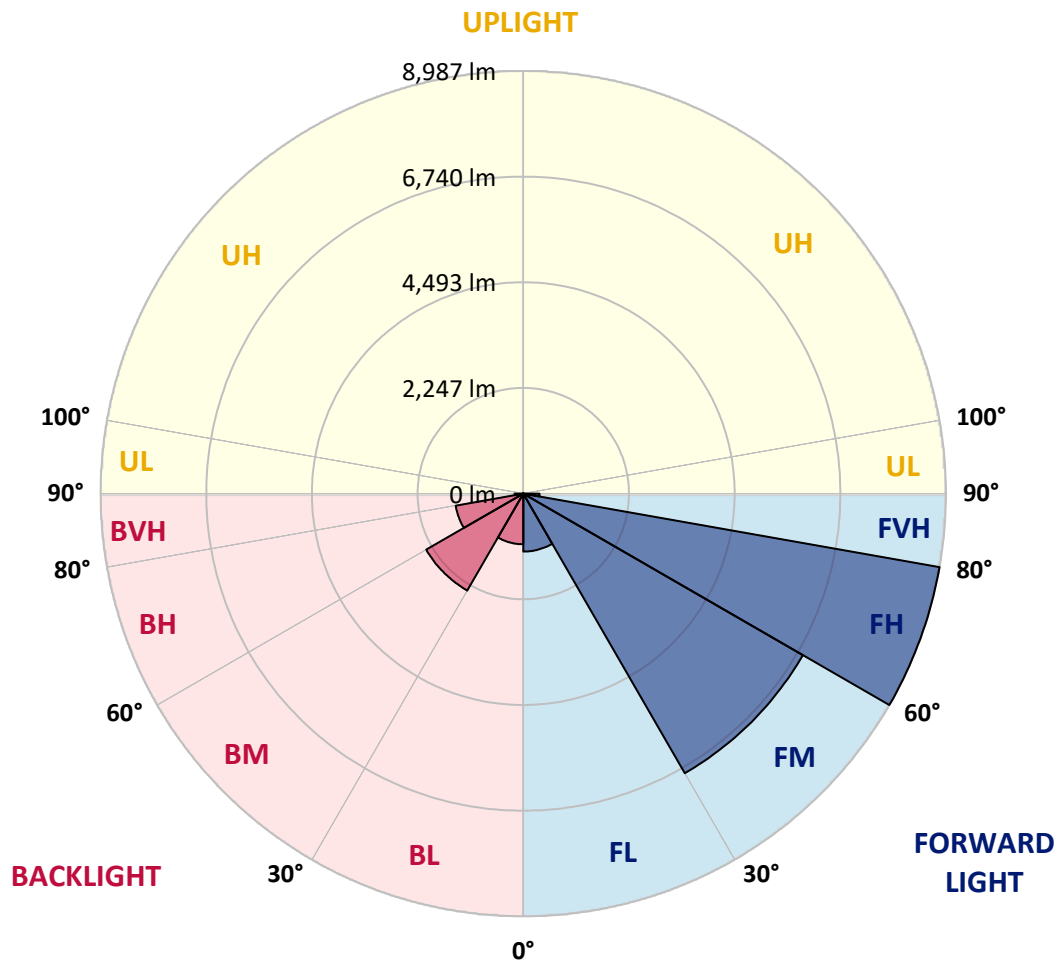
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1231.8	5.5			
FM	(30°-60°)	6863.2	30.5			
FH	(60°-80°)	8986.9	39.9			G4/12000
FVH	(80°-90°)	343.7	1.5			G3/500
BL	(0°-30°)	1076.5	4.8	B3/2500		
BM	(30°-60°)	2381.3	10.6	B2/2500		
BH	(60°-80°)	1460.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	182.5	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°	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3
2.5°	2407.2	2398.8	2397.6	2379.5	2369.8	2351.7	2344.5	2327.6	2307.1	2286.7	2267.4
5°	2596.4	2596.4	2588.0	2562.7	2522.9	2481.9	2463.8	2431.3	2373.4	2326.4	2286.7
7.5°	2790.5	2792.9	2776.0	2738.7	2682.0	2615.7	2598.9	2550.6	2468.7	2400.0	2340.9
10°	2958.1	2958.1	2935.2	2884.5	2813.4	2741.1	2724.2	2670.0	2578.4	2492.8	2415.6
12.5°	3085.8	3085.8	3055.7	2989.4	2912.3	2847.2	2827.9	2776.0	2690.5	2595.2	2497.6
15°	3169.0	3163.0	3129.2	3054.5	2979.8	2923.1	2909.8	2866.5	2788.1	2691.7	2582.0
17.5°	3172.6	3170.2	3137.7	3075.0	3009.9	2971.3	2962.9	2934.0	2872.5	2780.9	2665.1
20°	3102.7	3107.5	3085.8	3041.2	3009.9	2993.0	2989.4	2979.8	2936.4	2850.8	2735.1
22.5°	3028.0	3036.4	3015.9	2991.8	2989.4	3006.3	3008.7	3011.1	2983.4	2900.2	2794.1
25°	3009.9	3015.9	2995.4	2973.7	2987.0	3031.6	3041.2	3050.9	3029.2	2959.3	2864.0
27.5°	3101.5	3096.7	3056.9	3009.9	3018.3	3078.6	3091.9	3102.7	3091.9	3031.6	2950.8
30°	3360.7	3345.0	3265.4	3128.0	3084.6	3126.8	3140.1	3170.2	3170.2	3125.6	3044.9
32.5°	3794.6	3764.5	3618.6	3348.6	3197.9	3172.6	3185.9	3235.3	3260.6	3225.7	3137.7
35°	4321.4	4290.0	4081.5	3718.7	3405.3	3264.2	3260.6	3316.1	3383.6	3305.2	3190.7
37.5°	4850.5	4818.0	4567.3	4159.9	3707.8	3457.1	3435.4	3454.7	3483.6	3340.2	3264.2
40°	5379.7	5341.1	5121.8	4652.9	4077.9	3712.6	3656.0	3569.2	3557.1	3454.7	3406.5
42.5°	5904.1	5869.1	5758.2	5206.1	4521.5	3962.2	3875.4	3725.9	3771.7	3710.2	3668.0
45°	6433.2	6435.7	6317.5	5826.9	5056.7	4422.6	4305.7	4071.9	4180.3	4157.4	4181.5
47.5°	6902.1	6896.1	6853.9	6429.6	5720.9	5015.7	4865.0	4593.8	4779.4	4863.8	5048.2
50°	7356.6	7353.0	7355.4	7113.1	6492.3	5720.9	5554.5	5270.0	5688.3	5981.2	6311.5
52.5°	8007.5	8028.0	7882.1	7818.3	7430.1	6553.8	6370.6	6076.4	6762.3	7224.0	7868.9
55°	8660.8	8644.0	8529.4	8595.7	8411.3	7539.8	7348.1	7114.3	7958.1	8463.1	9432.3
57.5°	9045.4	9051.4	9168.3	9492.6	9622.7	8769.3	8595.7	8414.9	9302.1	9660.1	10823.3
60°	9391.3	9419.0	9755.3	10367.7	10720.9	10279.7	10125.4	9949.4	10535.2	10677.5	12031.1
62.5°	9499.8	9585.4	10172.4	11088.5	11791.3	11984.1	11792.5	11404.3	11709.3	11653.9	12849.6
65°	8958.6	9075.5	10127.8	11358.5	12747.2	13601.8	13480.0	12759.2	12709.8	12375.9	12983.4
67.5°	7533.8	7650.7	9002.0	10792.0	13142.5	15002.5	14880.7	13747.6	13317.3	12443.4	11970.9
70°	5512.3	5585.8	6878.0	9086.3	12348.2	15472.6	15514.8	14229.8	13100.3	11526.1	9828.9
72.5°	3176.2	3339.0	4244.2	6392.3	10088.0	14284.0	14577.0	13226.9	11728.6	9615.5	6872.0
75°	1365.7	1369.3	1962.4	3525.8	6832.2	11481.5	11764.8	10964.4	9210.5	6649.0	3669.3
77.5°	649.7	661.8	863.1	1574.3	3760.9	7932.8	8697.0	7745.9	5890.8	3194.3	1386.2
80°	421.9	430.3	528.0	781.1	1844.3	4599.8	5132.6	4468.4	2598.9	1141.5	597.9
82.5°	255.5	258.0	353.2	477.3	1015.0	2082.9	2455.4	1939.5	1109.0	683.5	352.0
85°	155.5	156.7	214.6	295.3	616.0	719.6	738.9	732.9	650.9	447.2	188.0
87.5°	74.7	77.1	110.9	139.8	242.3	223.0	210.9	244.7	307.4	241.1	80.8
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°	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3
2.5°	2258.9	2255.3	2246.9	2243.3	2240.8	2242.1	2240.8	2240.8	2242.1	2242.1	2242.1
5°	2269.8	2263.8	2250.5	2250.5	2257.7	2274.6	2290.3	2302.3	2315.6	2314.4	2314.4
7.5°	2316.8	2305.9	2290.3	2295.1	2313.2	2339.7	2367.4	2393.9	2420.5	2422.9	2421.7
10°	2385.5	2374.6	2357.8	2363.8	2392.7	2432.5	2467.5	2506.0	2535.0	2543.4	2541.0
12.5°	2463.8	2442.2	2427.7	2444.6	2490.4	2543.4	2577.2	2606.1	2626.6	2638.6	2633.8
15°	2543.4	2522.9	2506.0	2541.0	2596.4	2645.9	2662.7	2667.6	2671.2	2683.2	2680.8
17.5°	2620.5	2592.8	2586.8	2632.6	2685.6	2707.3	2697.7	2677.2	2661.5	2671.2	2670.0
20°	2689.3	2667.6	2665.1	2711.0	2731.4	2711.0	2670.0	2633.8	2606.1	2608.5	2607.3
22.5°	2754.3	2737.5	2739.9	2759.2	2726.6	2656.7	2589.2	2539.8	2509.7	2515.7	2519.3
25°	2826.7	2809.8	2815.8	2784.5	2677.2	2555.5	2457.8	2415.6	2403.6	2415.6	2424.1
27.5°	2920.7	2909.8	2906.2	2785.7	2589.2	2406.0	2295.1	2279.4	2290.3	2316.8	2330.0
30°	3021.9	3021.9	3002.7	2765.2	2468.7	2226.4	2130.0	2132.4	2169.7	2207.1	2220.4
32.5°	3119.6	3140.1	3079.8	2709.7	2313.2	2051.6	1978.1	1980.5	2013.0	2058.8	2070.9
35°	3200.3	3259.4	3146.1	2608.5	2130.0	1904.5	1849.1	1816.5	1817.8	1852.7	1862.4
37.5°	3311.2	3420.9	3184.7	2457.8	1934.7	1779.2	1716.5	1659.8	1622.5	1608.0	1608.0
40°	3504.1	3665.6	3194.3	2234.8	1750.2	1659.8	1570.6	1503.1	1430.8	1365.7	1353.7
42.5°	3830.8	4034.5	3175.0	1978.1	1583.9	1528.5	1441.7	1358.5	1258.4	1166.8	1159.6
45°	4409.4	4514.2	3123.2	1711.7	1435.6	1401.9	1317.5	1227.1	1121.0	1039.1	1033.0
47.5°	5336.3	5188.1	3054.5	1475.4	1300.6	1291.0	1225.9	1121.0	1015.0	958.3	952.3
50°	6690.0	6248.8	3044.9	1304.2	1192.1	1197.0	1143.9	1047.5	954.7	907.7	900.4
52.5°	8319.7	7530.2	3108.7	1183.7	1096.9	1115.0	1088.5	999.3	917.3	877.5	870.3
55°	9901.2	8682.5	3147.3	1089.7	1007.7	1041.5	1045.1	970.4	895.6	855.8	851.0
57.5°	11185.0	9550.4	2976.1	1004.1	930.6	982.4	1008.9	953.5	884.8	854.6	849.8
60°	12078.2	9960.3	2489.2	928.2	873.9	935.4	995.7	954.7	911.3	914.9	917.3
62.5°	12362.6	9778.2	1867.2	871.5	835.3	919.7	1017.4	1004.1	959.5	987.2	992.0
65°	11891.3	9026.1	1353.7	826.9	801.6	930.6	1082.5	1040.3	942.6	963.1	963.1
67.5°	10313.4	7776.1	1053.5	785.9	763.0	951.1	1147.5	1036.6	902.8	927.0	905.3
70°	8181.1	6015.0	877.5	740.1	722.0	920.9	1153.6	999.3	855.8	860.7	819.7
72.5°	5429.1	3954.9	754.6	696.7	659.4	828.1	1104.2	951.1	810.0	782.3	741.3
75°	2660.3	1972.0	658.2	642.5	577.4	720.8	1036.6	905.3	760.6	717.2	694.3
77.5°	1030.6	839.0	561.7	573.8	502.7	635.2	947.4	840.2	695.5	636.5	618.4
80°	500.2	476.1	460.5	478.5	413.5	541.2	865.5	783.5	635.2	570.2	543.6
82.5°	311.0	294.1	353.2	372.5	318.2	494.2	820.9	735.3	559.3	472.5	450.8
85°	157.9	168.8	236.3	254.3	227.8	393.0	676.2	552.1	403.8	335.1	337.5
87.5°	60.3	80.8	124.2	133.8	121.7	207.3	372.5	321.8	259.2	176.0	162.7
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)