

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: P522749

Luminaire Tested: **GALN-SA4D-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522749
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-SA4D-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25612 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

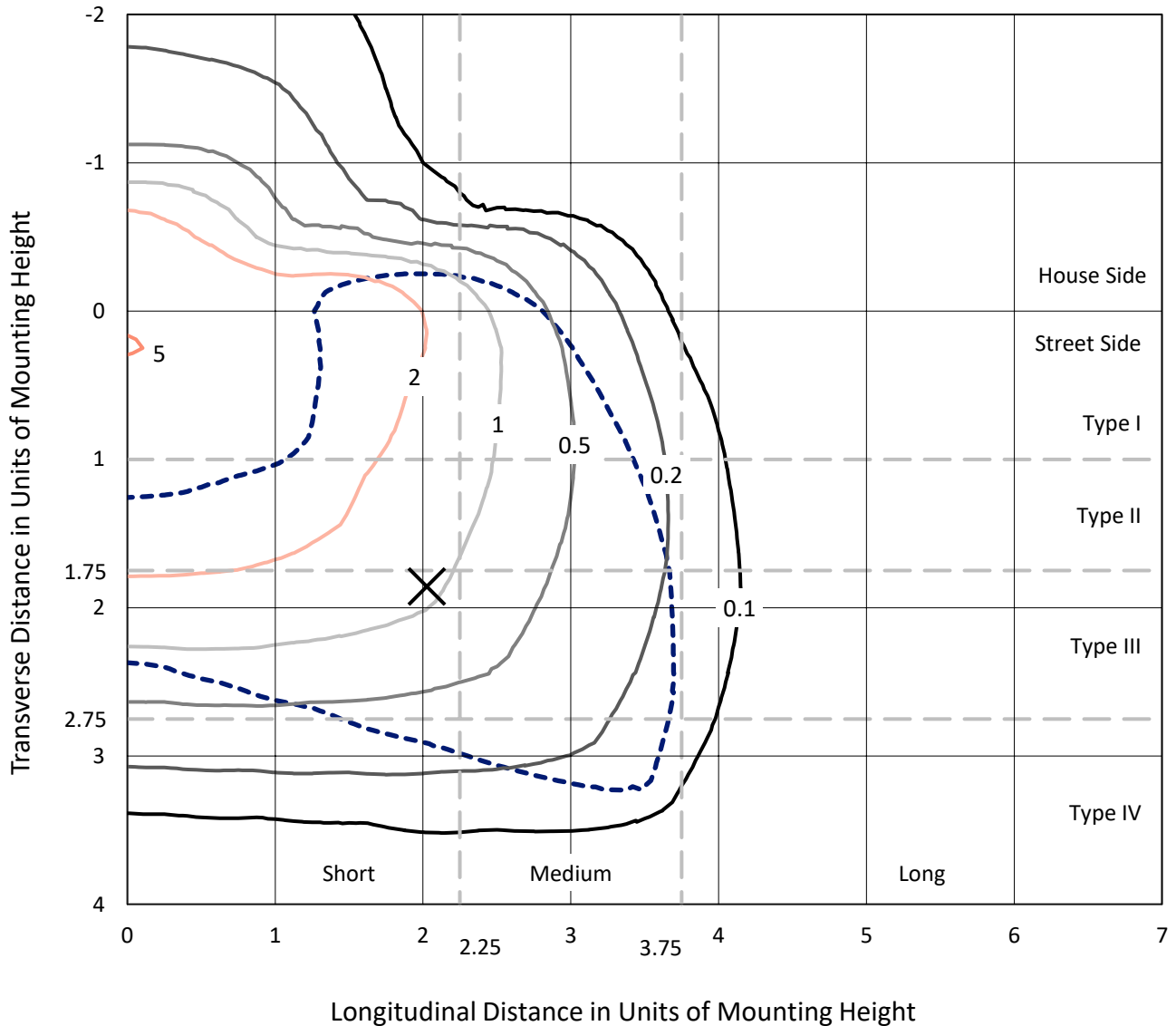
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

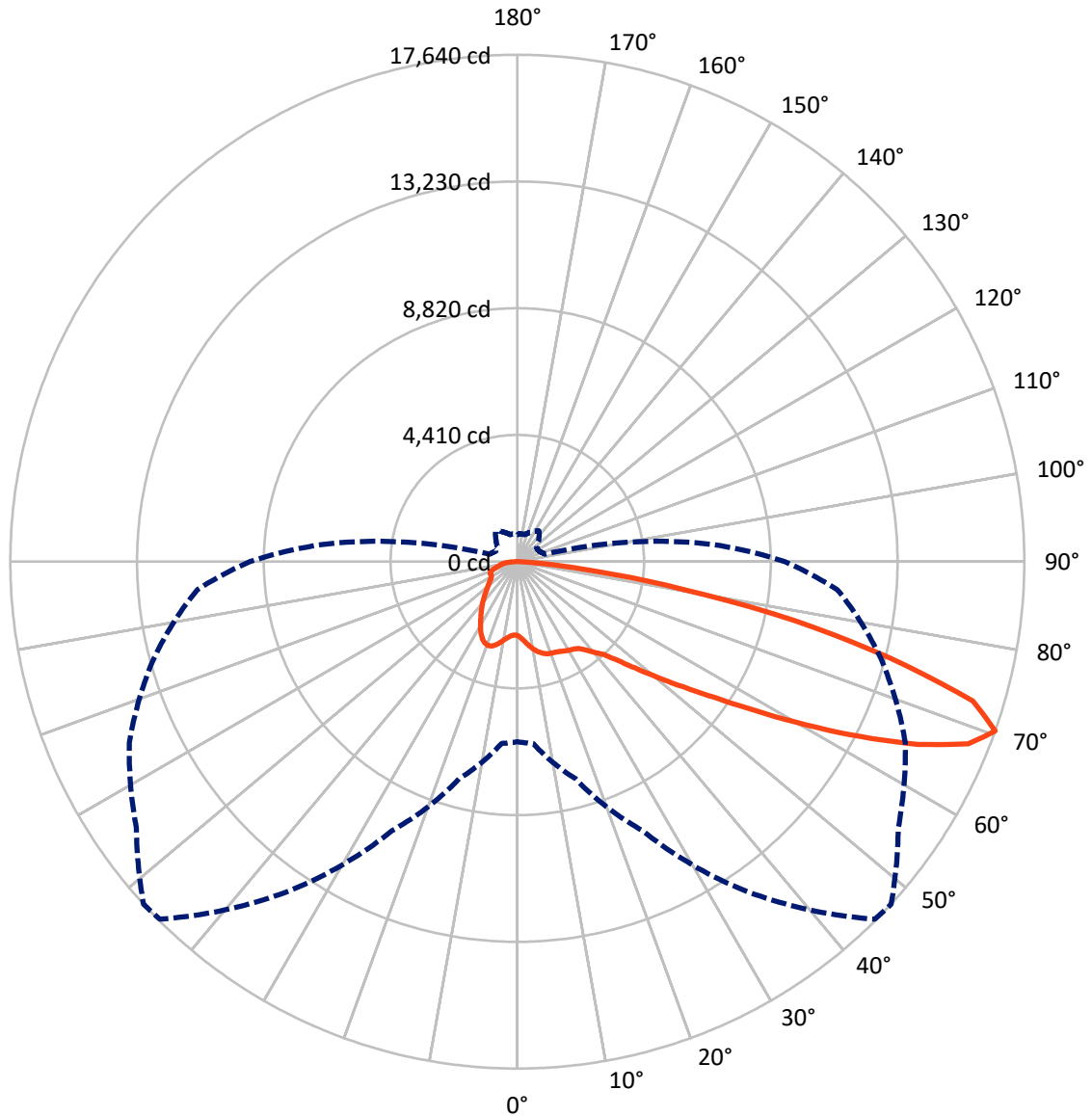
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	5799.1	0.0	5799.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19812.9	0.0	19812.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	25612.0	0.0	25612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.0	1.0
10°-20°	886.0	3.5
20°-30°	1473.4	5.8
30°-40°	2088.4	8.2
40°-50°	3082.9	12.0
50°-60°	5339.7	20.8
60°-70°	7542.5	29.4
70°-80°	4335.8	16.9
80°-90°	598.2	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°	25612.0	100.0
0°-180°	25612.0	100.0

Coefficient of Utilization



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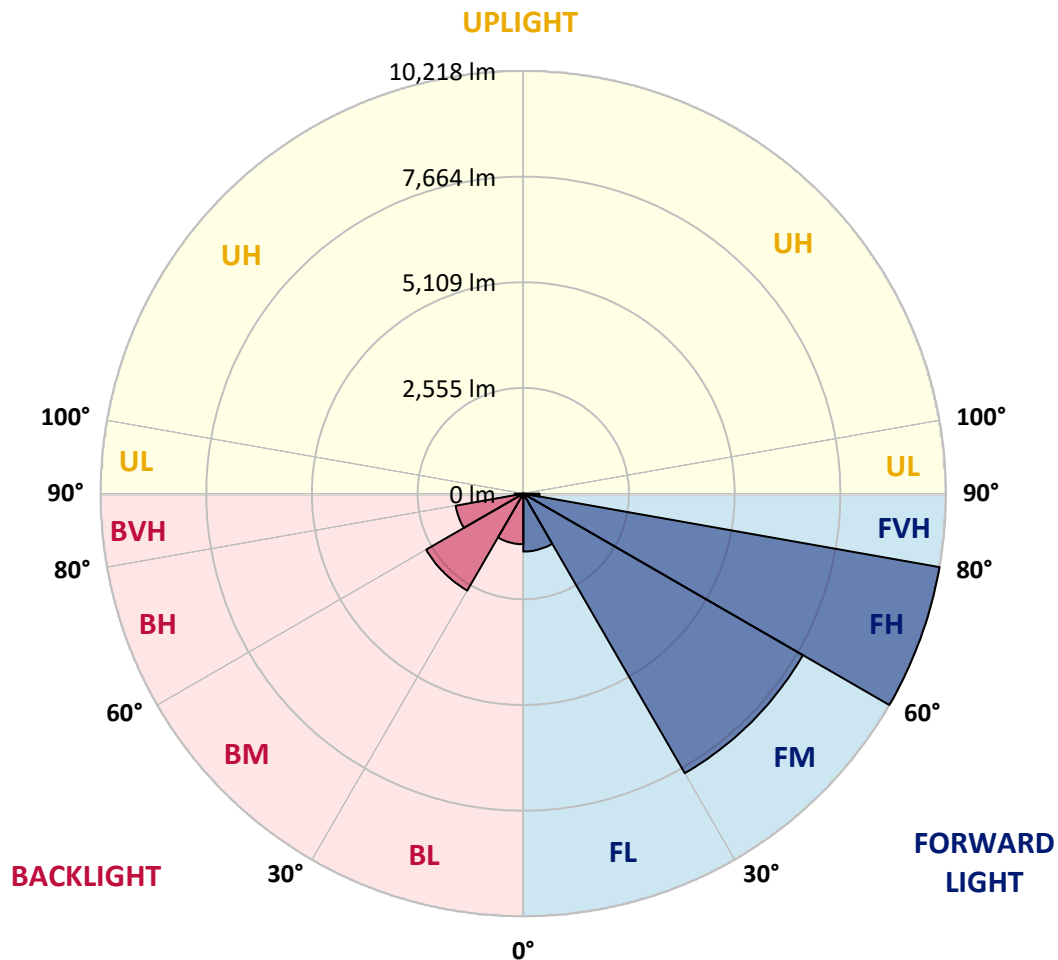
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1400.6	5.5			
FM	(30°-60°)	7803.5	30.5			
FH	(60°-80°)	10218.1	39.9			G4/12000
FVH	(80°-90°)	390.8	1.5			G3/500
BL	(0°-30°)	1223.9	4.8	B3/2500		
BM	(30°-60°)	2707.5	10.6	B3/5000		
BH	(60°-80°)	1660.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	207.5	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°	2571.1	2571.1	2571.1	2571.1	2571.1	2571.1	2571.1	2571.1	2571.1	2571.1	2571.1
2.5°	2737.0	2727.4	2726.0	2705.4	2694.5	2673.9	2665.7	2646.5	2623.2	2599.9	2578.0
5°	2952.1	2952.1	2942.6	2913.8	2868.5	2821.9	2801.4	2764.4	2698.6	2645.1	2599.9
7.5°	3172.8	3175.5	3156.4	3113.9	3049.5	2974.1	2954.9	2900.1	2806.9	2728.7	2661.6
10°	3363.3	3363.3	3337.3	3279.7	3198.8	3116.6	3097.4	3035.8	2931.6	2834.3	2746.6
12.5°	3508.6	3508.6	3474.3	3398.9	3311.2	3237.2	3215.3	3156.4	3059.0	2950.8	2839.8
15°	3603.2	3596.3	3557.9	3473.0	3388.0	3323.6	3308.5	3259.1	3170.1	3060.4	2935.7
17.5°	3607.3	3604.5	3567.5	3496.3	3422.2	3378.4	3368.8	3335.9	3266.0	3161.8	3030.3
20°	3527.8	3533.3	3508.6	3457.9	3422.2	3403.1	3398.9	3388.0	3338.6	3241.3	3109.8
22.5°	3442.8	3452.4	3429.1	3401.7	3398.9	3418.1	3420.9	3423.6	3392.1	3297.5	3176.9
25°	3422.2	3429.1	3405.8	3381.1	3396.2	3446.9	3457.9	3468.8	3444.2	3364.7	3256.4
27.5°	3526.4	3520.9	3475.7	3422.2	3431.8	3500.4	3515.4	3527.8	3515.4	3446.9	3355.1
30°	3821.1	3803.3	3712.8	3556.6	3507.2	3555.2	3570.3	3604.5	3604.5	3553.8	3462.0
32.5°	4314.5	4280.2	4114.4	3807.4	3636.0	3607.3	3622.3	3678.5	3707.3	3667.6	3567.5
35°	4913.4	4877.8	4640.7	4228.1	3871.8	3711.4	3707.3	3770.4	3847.1	3758.0	3627.8
37.5°	5515.1	5478.1	5193.0	4729.7	4215.8	3930.7	3906.0	3928.0	3960.9	3797.8	3711.4
40°	6116.7	6072.9	5823.4	5290.3	4636.5	4221.3	4156.9	4058.2	4044.5	3928.0	3873.2
42.5°	6712.9	6673.2	6547.1	5919.4	5140.9	4505.0	4406.3	4236.3	4288.4	4218.5	4170.6
45°	7314.6	7317.3	7183.0	6625.2	5749.4	5028.5	4895.6	4629.7	4753.0	4727.0	4754.4
47.5°	7847.7	7840.9	7792.9	7310.5	6504.6	5702.8	5531.5	5223.1	5434.2	5530.1	5739.8
50°	8364.4	8360.3	8363.0	8087.6	7381.7	6504.6	6315.5	5992.0	6467.6	6800.6	7176.2
52.5°	9104.5	9127.8	8962.0	8889.3	8448.0	7451.6	7243.3	6908.9	7688.7	8213.7	8946.9
55°	9847.3	9828.2	9698.0	9773.3	9563.6	8572.7	8354.8	8088.9	9048.3	9622.6	10724.5
57.5°	10284.5	10291.4	10424.3	10793.0	10941.0	9970.7	9773.3	9567.8	10576.5	10983.5	12306.1
60°	10677.9	10709.4	11091.8	11788.0	12189.6	11688.0	11512.6	11312.5	11978.5	12140.3	13679.4
62.5°	10801.2	10898.5	11566.0	12607.6	13406.6	13625.9	13408.0	12966.7	13313.4	13250.4	14610.0
65°	10185.9	10318.8	11515.3	12914.6	14493.5	15465.2	15326.8	14507.2	14451.0	14071.4	14762.1
67.5°	8565.9	8698.8	10235.2	12270.5	14943.0	17057.8	16919.3	15631.0	15141.7	14148.1	13610.9
70°	6267.5	6351.1	7820.3	10331.1	14039.8	17592.3	17640.2	16179.2	14895.0	13105.1	11175.4
72.5°	3611.4	3796.4	4825.7	7268.0	11470.1	16240.9	16574.0	15039.0	13335.4	10932.8	7813.5
75°	1552.8	1556.9	2231.2	4008.8	7768.2	13054.4	13376.5	12466.4	10472.3	7559.9	4171.9
77.5°	738.7	752.4	981.3	1789.9	4276.1	9019.5	9888.5	8807.1	6697.8	3631.9	1576.1
80°	479.7	489.3	600.3	888.1	2096.9	5230.0	5835.8	5080.6	2954.9	1297.9	679.8
82.5°	290.6	293.3	401.6	542.7	1154.0	2368.3	2791.8	2205.2	1260.9	777.1	400.2
85°	176.8	178.2	244.0	335.8	700.3	818.2	840.1	833.3	740.1	508.5	213.8
87.5°	85.0	87.7	126.1	159.0	275.5	253.6	239.8	278.2	349.5	274.1	91.8
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°	2571.1	2571.1	2571.1	2571.1	2571.1	2571.1	2571.1	2571.1	2571.1	2571.1	2571.1
2.5°	2568.4	2564.3	2554.7	2550.6	2547.8	2549.2	2547.8	2547.8	2549.2	2549.2	2549.2
5°	2580.7	2573.9	2558.8	2558.8	2567.0	2586.2	2604.0	2617.7	2632.8	2631.4	2631.4
7.5°	2634.2	2621.8	2604.0	2609.5	2630.1	2660.2	2691.7	2721.9	2752.0	2754.8	2753.4
10°	2712.3	2700.0	2680.8	2687.6	2720.5	2765.8	2805.5	2849.4	2882.2	2891.8	2889.1
12.5°	2801.4	2776.7	2760.3	2779.5	2831.5	2891.8	2930.2	2963.1	2986.4	3000.1	2994.6
15°	2891.8	2868.5	2849.4	2889.1	2952.1	3008.3	3027.5	3033.0	3037.1	3050.8	3048.1
17.5°	2979.6	2948.0	2941.2	2993.3	3053.6	3078.2	3067.3	3044.0	3026.2	3037.1	3035.8
20°	3057.7	3033.0	3030.3	3082.3	3105.6	3082.3	3035.8	2994.6	2963.1	2965.9	2964.5
22.5°	3131.7	3112.5	3115.2	3137.2	3100.2	3020.7	2943.9	2887.7	2853.5	2860.3	2864.4
25°	3213.9	3194.7	3201.6	3166.0	3044.0	2905.5	2794.5	2746.6	2732.9	2746.6	2756.2
27.5°	3320.8	3308.5	3304.4	3167.3	2943.9	2735.6	2609.5	2591.7	2604.0	2634.2	2649.3
30°	3435.9	3435.9	3414.0	3144.0	2806.9	2531.4	2421.7	2424.5	2467.0	2509.5	2524.5
32.5°	3547.0	3570.3	3501.7	3081.0	2630.1	2332.7	2249.1	2251.8	2288.8	2340.9	2354.6
35°	3638.8	3705.9	3577.1	2965.9	2421.7	2165.5	2102.4	2065.4	2066.8	2106.5	2117.5
37.5°	3764.9	3889.6	3621.0	2794.5	2199.7	2022.9	1951.7	1887.2	1844.7	1828.3	1828.3
40°	3984.2	4167.8	3631.9	2541.0	1990.0	1887.2	1785.8	1709.1	1626.8	1552.8	1539.1
42.5°	4355.6	4587.2	3610.0	2249.1	1800.9	1737.8	1639.2	1544.6	1430.8	1326.7	1318.5
45°	5013.4	5132.7	3551.1	1946.2	1632.3	1593.9	1498.0	1395.2	1274.6	1181.4	1174.6
47.5°	6067.4	5898.8	3473.0	1677.5	1478.8	1467.9	1393.8	1274.6	1154.0	1089.6	1082.7
50°	7606.5	7104.9	3462.0	1482.9	1355.5	1360.9	1300.6	1191.0	1085.5	1032.0	1023.8
52.5°	9459.5	8561.8	3534.6	1345.9	1247.2	1267.8	1237.6	1136.2	1043.0	997.8	989.5
55°	11257.6	9872.0	3578.5	1239.0	1145.8	1184.1	1188.3	1103.3	1018.3	973.1	967.6
57.5°	12717.3	10858.8	3383.9	1141.7	1058.1	1117.0	1147.1	1084.1	1006.0	971.7	966.2
60°	13732.8	11324.8	2830.2	1055.3	993.6	1063.5	1132.1	1085.5	1036.1	1040.2	1043.0
62.5°	14056.3	11117.8	2123.0	990.9	949.8	1045.7	1156.7	1141.7	1091.0	1122.5	1128.0
65°	13520.4	10262.6	1539.1	940.2	911.4	1058.1	1230.7	1182.8	1071.8	1095.1	1095.1
67.5°	11726.4	8841.4	1197.9	893.6	867.6	1081.4	1304.8	1178.7	1026.5	1053.9	1029.3
70°	9301.9	6839.0	997.8	841.5	821.0	1047.1	1311.6	1136.2	973.1	978.6	932.0
72.5°	6172.9	4496.7	858.0	792.2	749.7	941.6	1255.4	1081.4	921.0	889.5	842.9
75°	3024.8	2242.2	748.3	730.5	656.5	819.6	1178.7	1029.3	864.8	815.5	789.4
77.5°	1171.8	953.9	638.7	652.4	571.5	722.3	1077.2	955.3	790.8	723.6	703.1
80°	568.8	541.4	523.5	544.1	470.1	615.4	984.0	890.9	722.3	648.3	618.1
82.5°	353.6	334.4	401.6	423.5	361.8	561.9	933.3	836.0	635.9	537.3	512.6
85°	179.5	191.9	268.6	289.2	259.0	446.8	768.9	627.7	459.1	381.0	383.8
87.5°	68.5	91.8	141.2	152.1	138.4	235.7	423.5	365.9	294.7	200.1	185.0
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)