

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: P522751

Luminaire Tested: **GALN-SA4D-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522751
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-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 28529 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

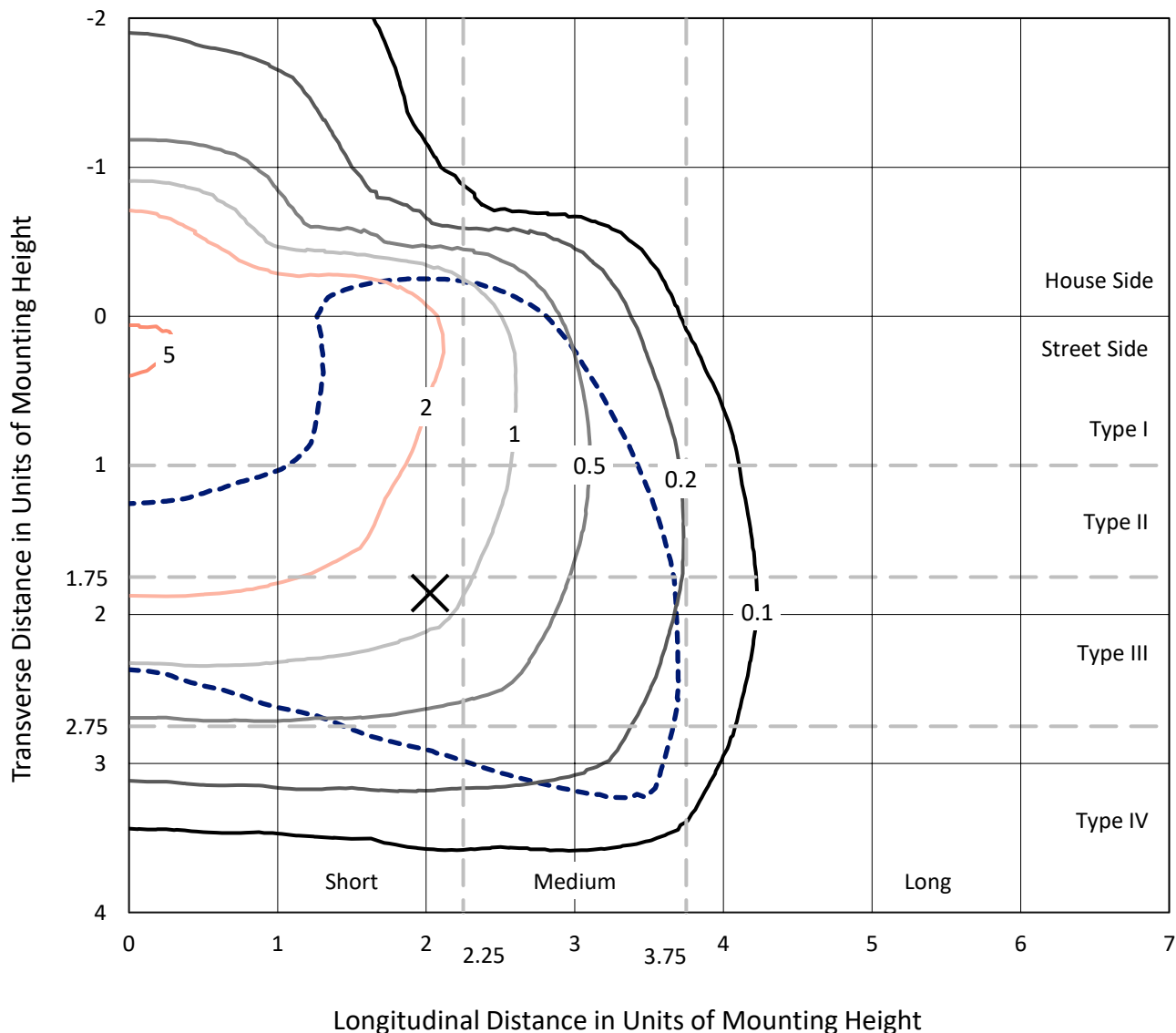
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

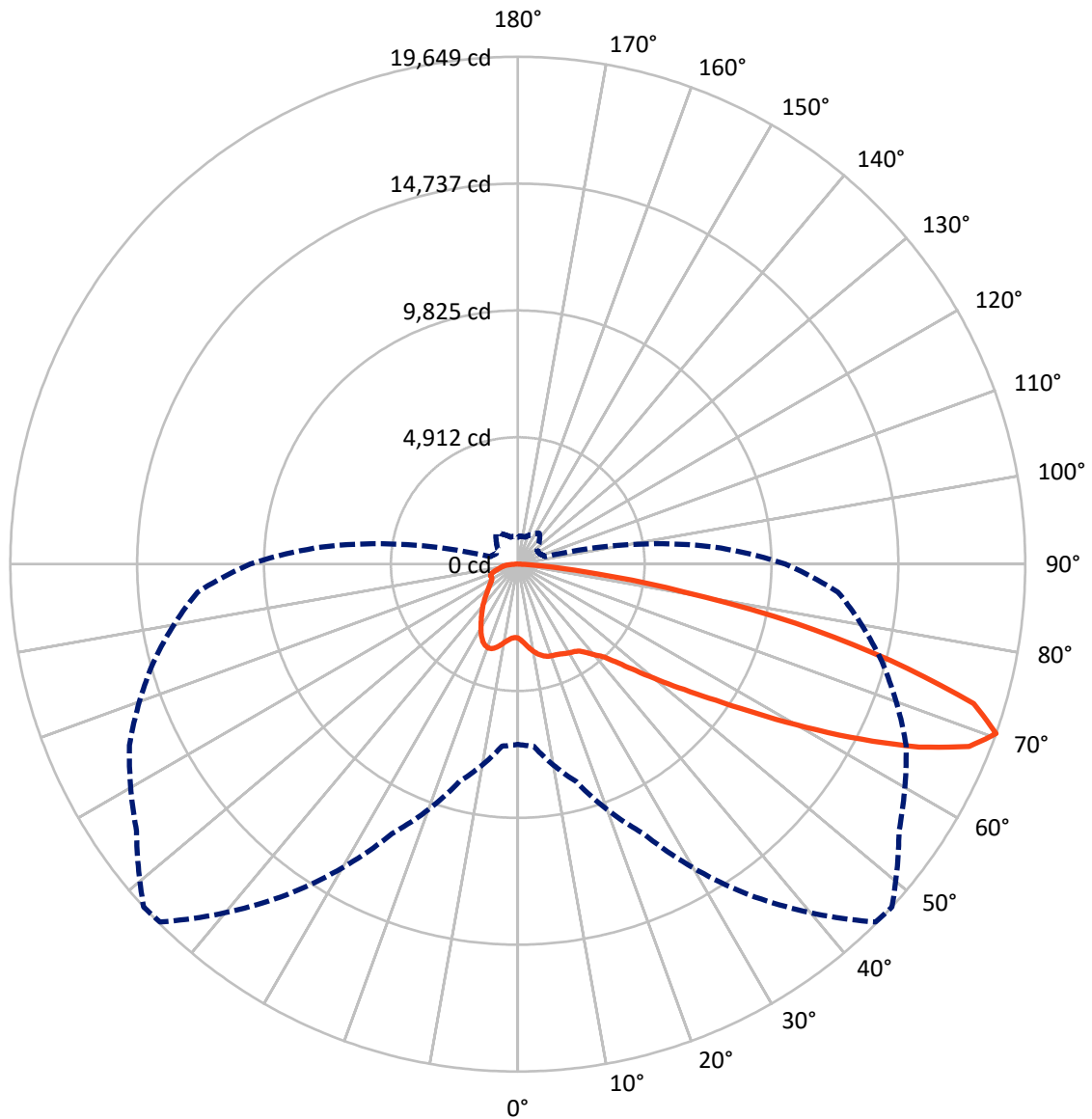
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	6459.5	0.0	6459.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22069.5	0.0	22069.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	28529.0	0.0	28529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.2	1.0
10°-20°	986.9	3.5
20°-30°	1641.2	5.8
30°-40°	2326.2	8.2
40°-50°	3434.0	12.0
50°-60°	5947.8	20.8
60°-70°	8401.5	29.4
70°-80°	4829.6	16.9
80°-90°	666.4	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°	28529.0	100.0
0°-180°	28529.0	100.0

Coefficient of Utilization



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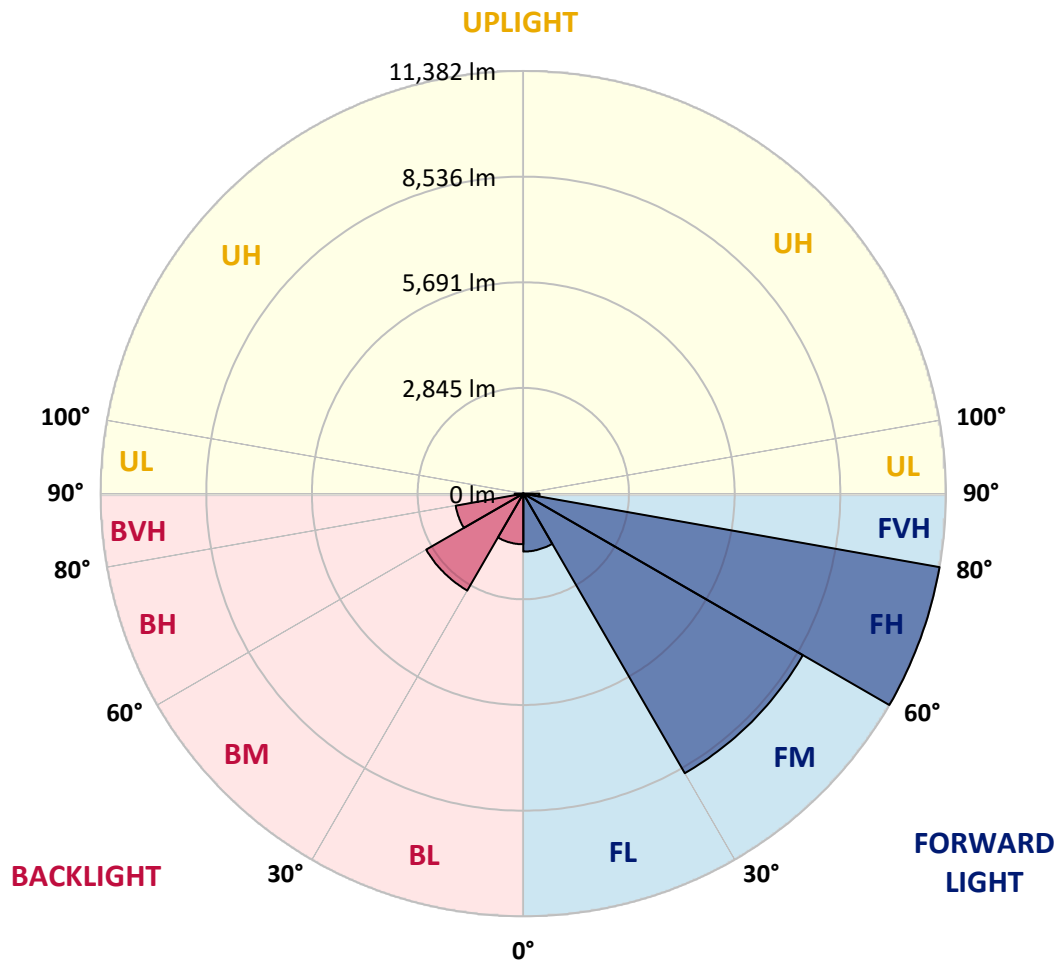
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1560.1	5.5			
FM	(30°-60°)	8692.2	30.5			
FH	(60°-80°)	11381.9	39.9			G4/12000
FVH	(80°-90°)	435.3	1.5			G3/500
BL	(0°-30°)	1363.3	4.8	B3/2500		
BM	(30°-60°)	3015.8	10.6	B3/5000		
BH	(60°-80°)	1849.3	6.5	B3/2500		G3/2500
BVH	(80°-90°)	231.1	0.8			G3/500
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°	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0
2.5°	3048.7	3038.0	3036.5	3013.6	3001.4	2978.5	2969.3	2947.9	2922.0	2896.0	2871.6
5°	3288.4	3288.4	3277.7	3245.6	3195.2	3143.3	3120.4	3079.2	3005.9	2946.4	2896.0
7.5°	3534.2	3537.2	3515.8	3468.5	3396.8	3312.8	3291.4	3230.4	3126.5	3039.5	2964.7
10°	3746.4	3746.4	3717.4	3653.2	3563.2	3471.6	3450.2	3381.5	3265.5	3157.1	3059.4
12.5°	3908.2	3908.2	3870.0	3786.1	3688.4	3605.9	3581.5	3515.8	3407.5	3286.8	3163.2
15°	4013.5	4005.9	3963.1	3868.5	3773.8	3702.1	3685.3	3630.3	3531.1	3409.0	3270.1
17.5°	4018.1	4015.1	3973.8	3894.4	3812.0	3763.2	3752.5	3715.8	3638.0	3521.9	3375.4
20°	3929.6	3935.7	3908.2	3851.7	3812.0	3790.6	3786.1	3773.8	3718.9	3610.5	3463.9
22.5°	3834.9	3845.6	3819.6	3789.1	3786.1	3807.4	3810.5	3813.5	3778.4	3673.1	3538.7
25°	3812.0	3819.6	3793.7	3766.2	3783.0	3839.5	3851.7	3863.9	3836.4	3747.9	3627.3
27.5°	3928.0	3921.9	3871.5	3812.0	3822.7	3899.0	3915.8	3929.6	3915.8	3839.5	3737.2
30°	4256.3	4236.4	4135.7	3961.6	3906.7	3960.1	3976.9	4015.1	4015.1	3958.6	3856.3
32.5°	4805.8	4767.7	4583.0	4241.0	4050.2	4018.1	4034.9	4097.5	4129.5	4085.3	3973.8
35°	5473.0	5433.3	5169.2	4709.7	4312.7	4134.1	4129.5	4199.8	4285.3	4186.0	4041.0
37.5°	6143.2	6102.0	5784.4	5268.4	4695.9	4378.4	4350.9	4375.3	4412.0	4230.3	4134.1
40°	6813.4	6764.5	6486.7	5892.8	5164.6	4702.0	4630.3	4520.4	4505.1	4375.3	4314.3
42.5°	7477.5	7433.2	7292.7	6593.5	5726.4	5018.1	4908.1	4718.8	4776.8	4699.0	4645.6
45°	8147.7	8150.7	8001.1	7379.8	6404.2	5601.2	5453.1	5157.0	5294.4	5265.4	5295.9
47.5°	8741.5	8733.9	8680.4	8143.1	7245.4	6352.3	6161.5	5818.0	6053.1	6160.0	6393.5
50°	9317.1	9312.5	9315.5	9008.7	8222.5	7245.4	7034.7	6674.5	7204.2	7575.2	7993.5
52.5°	10141.4	10167.4	9982.7	9901.8	9410.2	8300.3	8068.3	7695.8	8564.4	9149.1	9965.9
55°	10968.9	10947.5	10802.5	10886.4	10652.9	9549.1	9306.4	9010.2	10078.8	10718.5	11945.9
57.5°	11455.9	11463.5	11611.6	12022.3	12187.1	11106.3	10886.4	10657.4	11781.0	12234.5	13707.7
60°	11894.0	11929.1	12355.1	13130.6	13577.9	13019.1	12823.7	12600.8	13342.8	13522.9	15237.3
62.5°	12031.4	12139.8	12883.3	14043.5	14933.5	15177.8	14935.1	14443.5	14829.7	14759.5	16273.9
65°	11346.0	11494.0	12826.8	14385.5	16144.2	17226.6	17072.4	16159.4	16096.8	15674.0	16443.4
67.5°	9541.5	9689.6	11400.9	13668.0	16644.9	19000.5	18846.3	17411.3	16866.3	15759.5	15161.0
70°	6981.3	7074.4	8711.0	11507.8	15638.9	19595.9	19649.3	18021.9	16591.5	14597.7	12448.2
72.5°	4022.7	4228.8	5375.3	8095.7	12776.4	18090.6	18461.6	16751.8	14854.2	12178.0	8703.3
75°	1729.7	1734.3	2485.4	4465.4	8653.0	14541.2	14900.0	13886.3	11665.0	8420.9	4647.1
77.5°	822.9	838.1	1093.1	1993.8	4763.1	10046.8	11014.7	9810.2	7460.7	4045.6	1755.6
80°	534.3	545.0	668.7	989.3	2335.8	5825.6	6500.4	5659.2	3291.4	1445.7	757.2
82.5°	323.6	326.7	447.3	604.5	1285.4	2638.0	3109.8	2456.4	1404.5	865.6	445.8
85°	196.9	198.5	271.7	374.0	780.1	911.4	935.8	928.2	824.4	566.4	238.2
87.5°	94.7	97.7	140.5	177.1	306.9	282.4	267.2	309.9	389.3	305.3	102.3
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°	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0
2.5°	2860.9	2856.3	2845.6	2841.1	2838.0	2839.5	2838.0	2838.0	2839.5	2839.5	2839.5
5°	2874.7	2867.0	2850.2	2850.2	2859.4	2880.8	2900.6	2915.9	2932.7	2931.1	2931.1
7.5°	2934.2	2920.5	2900.6	2906.7	2929.6	2963.2	2998.3	3031.9	3065.5	3068.5	3067.0
10°	3021.2	3007.5	2986.1	2993.7	3030.4	3080.8	3125.0	3173.9	3210.5	3221.2	3218.1
12.5°	3120.4	3093.0	3074.6	3096.0	3154.0	3221.2	3263.9	3300.6	3326.5	3341.8	3335.7
15°	3221.2	3195.2	3173.9	3218.1	3288.4	3351.0	3372.3	3378.4	3383.0	3398.3	3395.2
17.5°	3318.9	3283.8	3276.2	3334.2	3401.3	3428.8	3416.6	3390.7	3370.8	3383.0	3381.5
20°	3405.9	3378.4	3375.4	3433.4	3459.4	3433.4	3381.5	3335.7	3300.6	3303.6	3302.1
22.5°	3488.4	3467.0	3470.0	3494.5	3453.2	3364.7	3279.2	3216.6	3178.5	3186.1	3190.7
25°	3580.0	3558.6	3566.2	3526.5	3390.7	3236.5	3112.8	3059.4	3044.1	3059.4	3070.1
27.5°	3699.0	3685.3	3680.7	3528.1	3279.2	3047.2	2906.7	2886.9	2900.6	2934.2	2951.0
30°	3827.3	3827.3	3802.8	3502.1	3126.5	2819.7	2697.6	2700.6	2747.9	2795.3	2812.1
32.5°	3950.9	3976.9	3900.6	3431.9	2929.6	2598.3	2505.2	2508.3	2549.5	2607.5	2622.8
35°	4053.2	4128.0	3984.5	3303.6	2697.6	2412.1	2341.9	2300.6	2302.2	2346.4	2358.7
37.5°	4193.7	4332.6	4033.4	3112.8	2450.3	2253.3	2173.9	2102.2	2054.9	2036.5	2036.5
40°	4437.9	4642.5	4045.6	2830.4	2216.7	2102.2	1989.2	1903.7	1812.1	1729.7	1714.4
42.5°	4851.6	5109.6	4021.2	2505.2	2006.0	1935.8	1825.9	1720.5	1593.8	1477.8	1468.6
45°	5584.4	5717.3	3955.5	2167.8	1818.2	1775.5	1668.6	1554.1	1419.8	1316.0	1308.3
47.5°	6758.4	6570.6	3868.5	1868.6	1647.2	1635.0	1552.6	1419.8	1285.4	1213.7	1206.0
50°	8472.8	7914.1	3856.3	1651.8	1509.8	1515.9	1448.8	1326.6	1209.1	1149.6	1140.4
52.5°	10536.8	9536.9	3937.2	1499.2	1389.2	1412.1	1378.6	1265.6	1161.8	1111.4	1102.2
55°	12539.8	10996.4	3986.0	1380.1	1276.3	1319.0	1323.6	1228.9	1134.3	1083.9	1077.8
57.5°	14165.7	12095.5	3769.3	1271.7	1178.6	1244.2	1277.8	1207.6	1120.6	1082.4	1076.3
60°	15296.9	12614.6	3152.5	1175.5	1106.8	1184.7	1261.0	1209.1	1154.1	1158.7	1161.8
62.5°	15657.2	12384.1	2364.8	1103.8	1058.0	1164.8	1288.5	1271.7	1215.2	1250.3	1256.4
65°	15060.3	11431.4	1714.4	1047.3	1015.2	1178.6	1370.9	1317.5	1193.8	1219.8	1219.8
67.5°	13061.9	9848.3	1334.3	995.4	966.4	1204.5	1453.4	1312.9	1143.5	1174.0	1146.5
70°	10361.3	7617.9	1111.4	937.4	914.5	1166.3	1461.0	1265.6	1083.9	1090.0	1038.1
72.5°	6876.0	5008.9	955.7	882.4	835.1	1048.8	1398.4	1204.5	1025.9	990.8	938.9
75°	3369.3	2497.6	833.5	813.7	731.3	912.9	1312.9	1146.5	963.3	908.3	879.3
77.5°	1305.3	1062.5	711.4	726.7	636.6	804.5	1199.9	1064.1	880.9	806.1	783.2
80°	633.6	603.0	583.2	606.1	523.6	685.5	1096.1	992.3	804.5	722.1	688.5
82.5°	393.9	372.5	447.3	471.7	403.0	625.9	1039.6	931.2	708.4	598.4	571.0
85°	200.0	213.7	299.2	322.1	288.5	497.7	856.4	699.2	511.4	424.4	427.5
87.5°	76.3	102.3	157.2	169.5	154.2	262.6	471.7	407.6	328.2	222.9	206.1
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)