

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: P522832

Luminaire Tested: **GALN-SA7A-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522832
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-SA7A-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29694 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

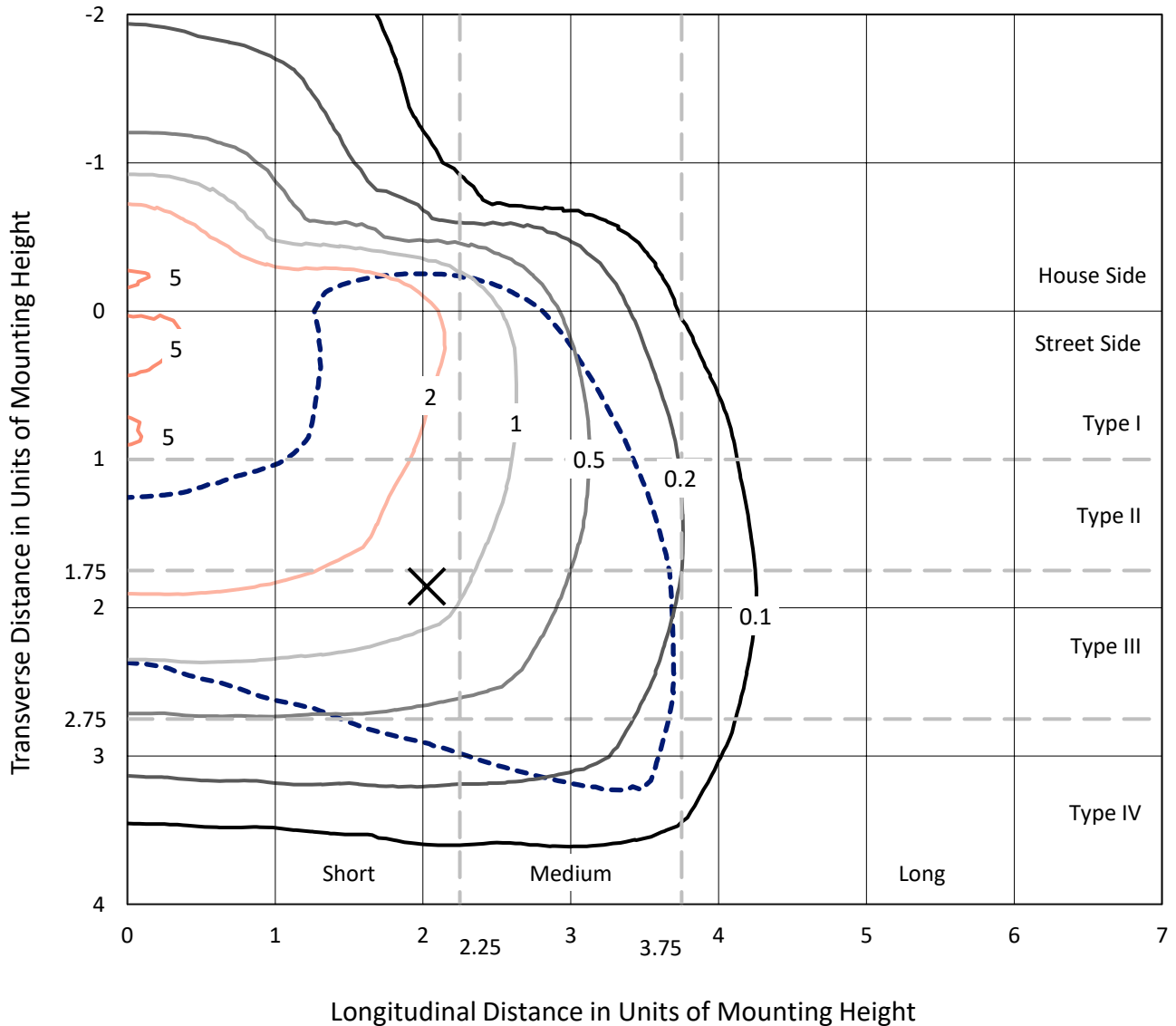
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

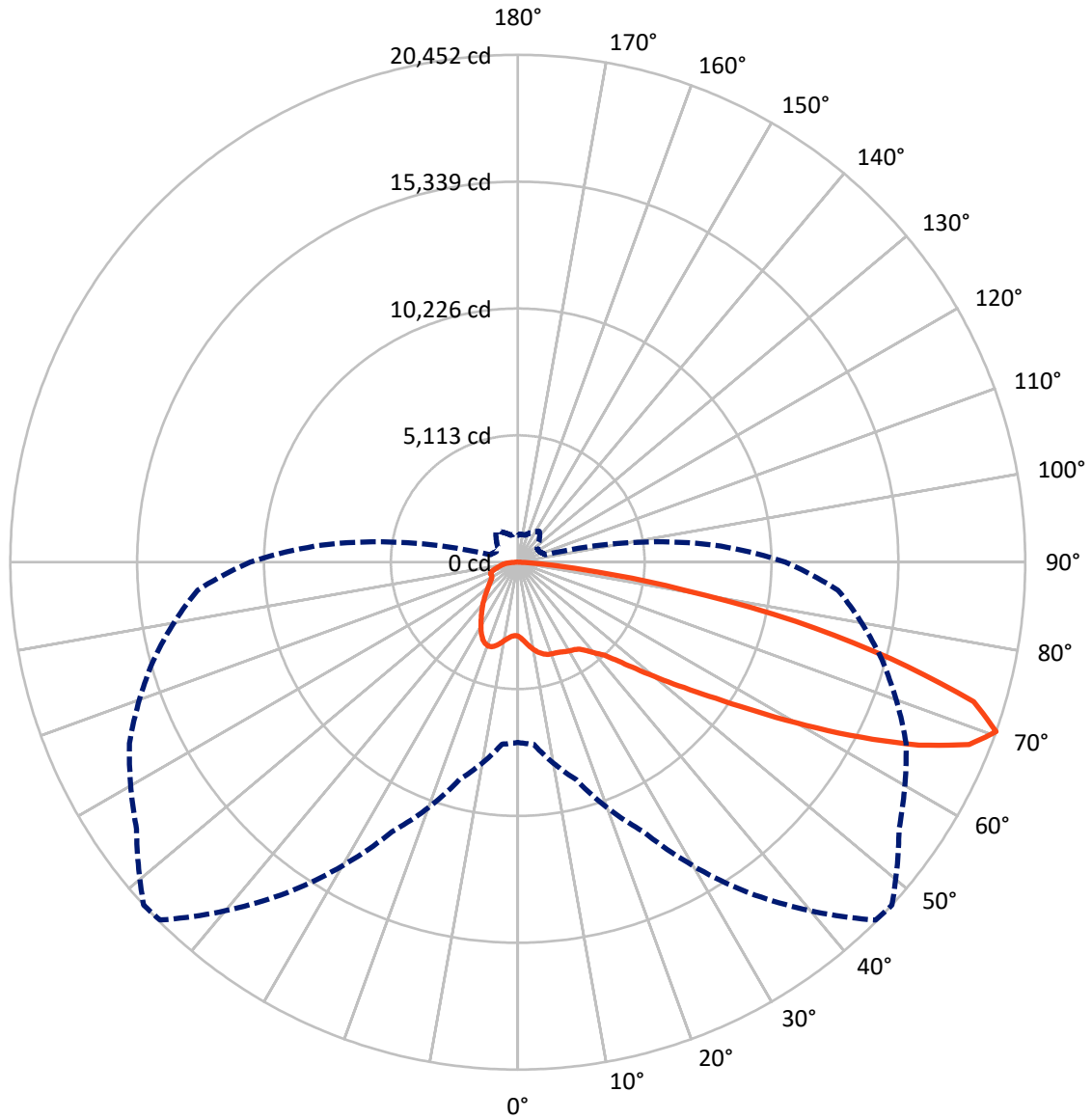
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	6723.3	0.0	6723.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22970.7	0.0	22970.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	29694.0	0.0	29694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.3	1.0
10°-20°	1027.2	3.5
20°-30°	1708.3	5.8
30°-40°	2421.2	8.2
40°-50°	3574.2	12.0
50°-60°	6190.7	20.8
60°-70°	8744.6	29.4
70°-80°	5026.9	16.9
80°-90°	693.6	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°	29694.0	100.0
0°-180°	29694.0	100.0

Coefficient of Utilization



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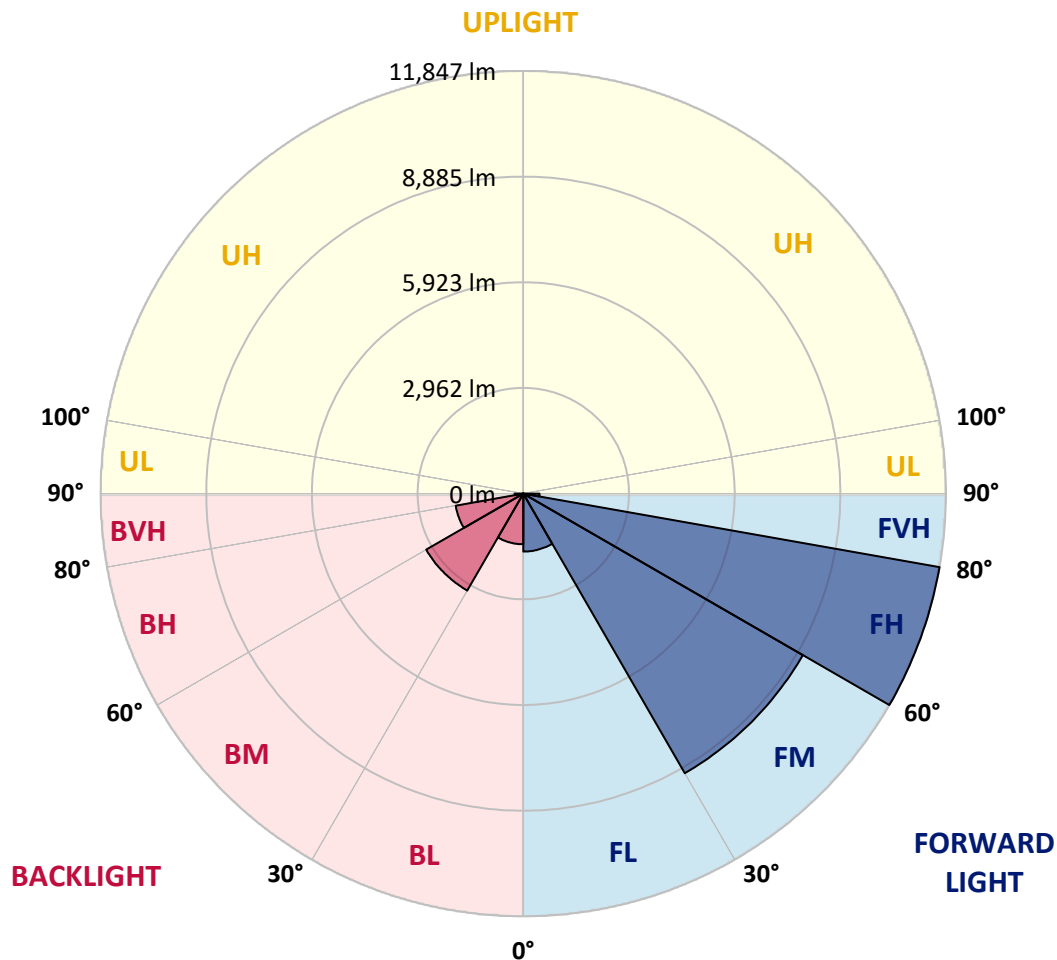
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1623.8	5.5			
FM (30°-60°)	9047.2	30.5			
FH (60°-80°)	11846.7	39.9			G4/12000
FVH (80°-90°)	453.1	1.5			G3/500
BL (0°-30°)	1419.0	4.8	B3/2500		
BM (30°-60°)	3139.0	10.6	B3/5000		
BH (60°-80°)	1924.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	240.5	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°	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9
2.5°	3173.2	3162.1	3160.5	3136.6	3123.9	3100.1	3090.6	3068.3	3041.3	3014.3	2988.9
5°	3422.7	3422.7	3411.5	3378.2	3325.7	3271.7	3247.9	3205.0	3128.7	3066.7	3014.3
7.5°	3678.5	3681.7	3659.4	3610.2	3535.5	3448.1	3425.8	3362.3	3254.2	3163.7	3085.8
10°	3899.3	3899.3	3869.2	3802.4	3708.7	3613.3	3591.1	3519.6	3398.8	3286.0	3184.3
12.5°	4067.8	4067.8	4028.1	3940.7	3839.0	3753.2	3727.7	3659.4	3546.6	3421.1	3292.4
15°	4177.4	4169.5	4125.0	4026.5	3928.0	3853.3	3835.8	3778.6	3675.3	3548.2	3403.6
17.5°	4182.2	4179.0	4136.1	4053.5	3967.7	3916.8	3905.7	3867.6	3786.5	3665.8	3513.2
20°	4090.0	4096.4	4067.8	4009.0	3967.7	3945.4	3940.7	3928.0	3870.7	3757.9	3605.4
22.5°	3991.5	4002.6	3975.6	3943.8	3940.7	3962.9	3966.1	3969.3	3932.7	3823.1	3683.2
25°	3967.7	3975.6	3948.6	3920.0	3937.5	3996.3	4009.0	4021.7	3993.1	3900.9	3775.4
27.5°	4088.4	4082.1	4029.6	3967.7	3978.8	4058.2	4075.7	4090.0	4075.7	3996.3	3889.8
30°	4430.1	4409.4	4304.5	4123.4	4066.2	4121.8	4139.3	4179.0	4179.0	4120.2	4013.8
32.5°	5002.1	4962.4	4770.1	4414.2	4215.6	4182.2	4199.7	4264.8	4298.2	4252.1	4136.1
35°	5696.5	5655.2	5380.3	4902.0	4488.9	4302.9	4298.2	4371.3	4460.3	4357.0	4206.0
37.5°	6394.0	6351.1	6020.6	5483.6	4887.7	4557.2	4528.6	4554.0	4592.1	4403.1	4302.9
40°	7091.6	7040.8	6751.6	6133.5	5375.5	4894.0	4819.4	4705.0	4689.1	4554.0	4490.4
42.5°	7782.8	7736.7	7590.5	6862.8	5960.3	5223.0	5108.6	4911.5	4971.9	4890.9	4835.3
45°	8480.4	8483.5	8327.8	7681.1	6665.8	5830.0	5675.8	5367.6	5510.6	5480.4	5512.2
47.5°	9098.5	9090.5	9034.9	8475.6	7541.3	6611.7	6413.1	6055.6	6300.3	6411.5	6654.6
50°	9697.5	9692.8	9695.9	9376.6	8558.2	7541.3	7322.0	6947.0	7498.4	7884.5	8319.9
52.5°	10555.6	10582.6	10390.3	10306.1	9794.5	8639.3	8397.7	8010.0	8914.2	9522.7	10372.8
55°	11416.8	11394.6	11243.6	11331.0	11087.9	9939.0	9686.4	9378.1	10490.4	11156.2	12433.7
57.5°	11923.7	11931.6	12085.8	12513.2	12684.8	11559.8	11331.0	11092.6	12262.1	12734.1	14267.4
60°	12379.7	12416.3	12859.6	13666.8	14132.4	13550.8	13347.4	13115.4	13887.7	14075.2	15859.6
62.5°	12522.7	12635.5	13409.4	14617.0	15543.4	15797.6	15545.0	15033.3	15435.3	15362.2	16938.5
65°	11809.3	11963.4	13350.6	14972.9	16803.4	17930.0	17769.5	16819.3	16754.2	16314.0	17114.9
67.5°	9931.1	10085.2	11866.5	14226.1	17324.6	19776.4	19615.9	18122.3	17555.0	16403.0	15780.1
70°	7266.4	7363.3	9066.7	11977.7	16277.5	20396.1	20451.7	18757.9	17269.0	15193.8	12956.5
72.5°	4187.0	4401.5	5594.8	8426.3	13298.1	18829.4	19215.5	17435.8	15460.7	12675.3	9058.8
75°	1800.3	1805.1	2586.9	4647.8	9006.3	15135.0	15508.4	14453.3	12141.4	8764.8	4836.8
77.5°	856.5	872.3	1137.7	2075.2	4957.6	10457.1	11464.5	10210.8	7765.3	4210.8	1827.3
80°	556.1	567.3	696.0	1029.7	2431.1	6063.5	6765.9	5890.3	3425.8	1504.8	788.1
82.5°	336.9	340.0	465.6	629.2	1337.9	2745.8	3236.7	2556.7	1461.9	900.9	464.0
85°	205.0	206.6	282.8	389.3	812.0	948.6	974.0	966.1	858.0	589.5	247.9
87.5°	98.5	101.7	146.2	184.3	319.4	294.0	278.1	322.6	405.2	317.8	106.5
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°	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9
2.5°	2977.7	2973.0	2961.9	2957.1	2953.9	2955.5	2953.9	2953.9	2955.5	2955.5	2955.5
5°	2992.0	2984.1	2966.6	2966.6	2976.2	2998.4	3019.1	3034.9	3052.4	3050.8	3050.8
7.5°	3054.0	3039.7	3019.1	3025.4	3049.2	3084.2	3120.8	3155.7	3190.7	3193.8	3192.3
10°	3144.6	3130.3	3108.0	3116.0	3154.1	3206.6	3252.6	3303.5	3341.6	3352.7	3349.6
12.5°	3247.9	3219.3	3200.2	3222.4	3282.8	3352.7	3397.2	3435.4	3462.4	3478.3	3471.9
15°	3352.7	3325.7	3303.5	3349.6	3422.7	3487.8	3510.0	3516.4	3521.2	3537.1	3533.9
17.5°	3454.4	3417.9	3409.9	3470.3	3540.2	3568.8	3556.1	3529.1	3508.5	3521.2	3519.6
20°	3545.0	3516.4	3513.2	3573.6	3600.6	3573.6	3519.6	3471.9	3435.4	3438.5	3437.0
22.5°	3630.8	3608.6	3611.7	3637.2	3594.3	3502.1	3413.1	3348.0	3308.2	3316.2	3321.0
25°	3726.2	3703.9	3711.8	3670.5	3529.1	3368.6	3239.9	3184.3	3168.4	3184.3	3195.4
27.5°	3850.1	3835.8	3831.0	3672.1	3413.1	3171.6	3025.4	3004.8	3019.1	3054.0	3071.5
30°	3983.6	3983.6	3958.1	3645.1	3254.2	2934.8	2807.7	2810.9	2860.2	2909.4	2926.9
32.5°	4112.3	4139.3	4059.8	3572.0	3049.2	2704.4	2607.5	2610.7	2653.6	2714.0	2729.9
35°	4218.7	4296.6	4147.2	3438.5	2807.7	2510.6	2437.5	2394.6	2396.2	2442.3	2455.0
37.5°	4364.9	4509.5	4198.1	3239.9	2550.3	2345.3	2262.7	2188.0	2138.8	2119.7	2119.7
40°	4619.2	4832.1	4210.8	2946.0	2307.2	2188.0	2070.4	1981.5	1886.1	1800.3	1784.4
42.5°	5049.8	5318.3	4185.4	2607.5	2087.9	2014.8	1900.4	1790.8	1658.9	1538.1	1528.6
45°	5812.5	5950.7	4117.0	2256.3	1892.5	1848.0	1736.8	1617.6	1477.7	1369.7	1361.8
47.5°	7034.4	6839.0	4026.5	1944.9	1714.5	1701.8	1616.0	1477.7	1337.9	1263.2	1255.3
50°	8818.8	8237.3	4013.8	1719.3	1571.5	1577.9	1507.9	1380.8	1258.5	1196.5	1187.0
52.5°	10967.1	9926.3	4098.0	1560.4	1446.0	1469.8	1434.8	1317.3	1209.2	1156.8	1147.2
55°	13051.9	11445.4	4148.8	1436.4	1328.4	1372.9	1377.6	1279.1	1180.6	1128.2	1121.8
57.5°	14744.1	12589.5	3923.2	1323.6	1226.7	1295.0	1330.0	1256.9	1166.3	1126.6	1120.2
60°	15921.5	13129.7	3281.2	1223.5	1152.0	1233.0	1312.5	1258.5	1201.3	1206.0	1209.2
62.5°	16296.5	12889.8	2461.3	1148.8	1101.2	1212.4	1341.1	1323.6	1264.8	1301.4	1307.7
65°	15675.3	11898.3	1784.4	1090.0	1056.7	1226.7	1426.9	1371.3	1242.6	1269.6	1269.6
67.5°	13595.3	10250.5	1388.8	1036.0	1005.8	1253.7	1512.7	1366.5	1190.1	1221.9	1193.3
70°	10784.4	7929.0	1156.8	975.6	951.8	1214.0	1520.7	1317.3	1128.2	1134.5	1080.5
72.5°	7156.8	5213.4	994.7	918.4	869.2	1091.6	1455.5	1253.7	1067.8	1031.2	977.2
75°	3506.9	2599.6	867.6	846.9	761.1	950.2	1366.5	1193.3	1002.6	945.4	915.3
77.5°	1358.6	1105.9	740.5	756.4	662.6	837.4	1248.9	1107.5	916.8	839.0	815.1
80°	659.4	627.6	607.0	630.8	545.0	713.5	1140.9	1032.8	837.4	751.6	716.6
82.5°	410.0	387.7	465.6	491.0	419.5	651.5	1082.1	969.3	737.3	622.9	594.3
85°	208.2	222.5	311.4	335.3	300.3	518.0	891.4	727.8	532.3	441.7	444.9
87.5°	79.4	106.5	163.7	176.4	160.5	273.3	491.0	424.3	341.6	232.0	214.5
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)