

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: P457431

Luminaire Tested: **GALN-SA8D-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57979 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

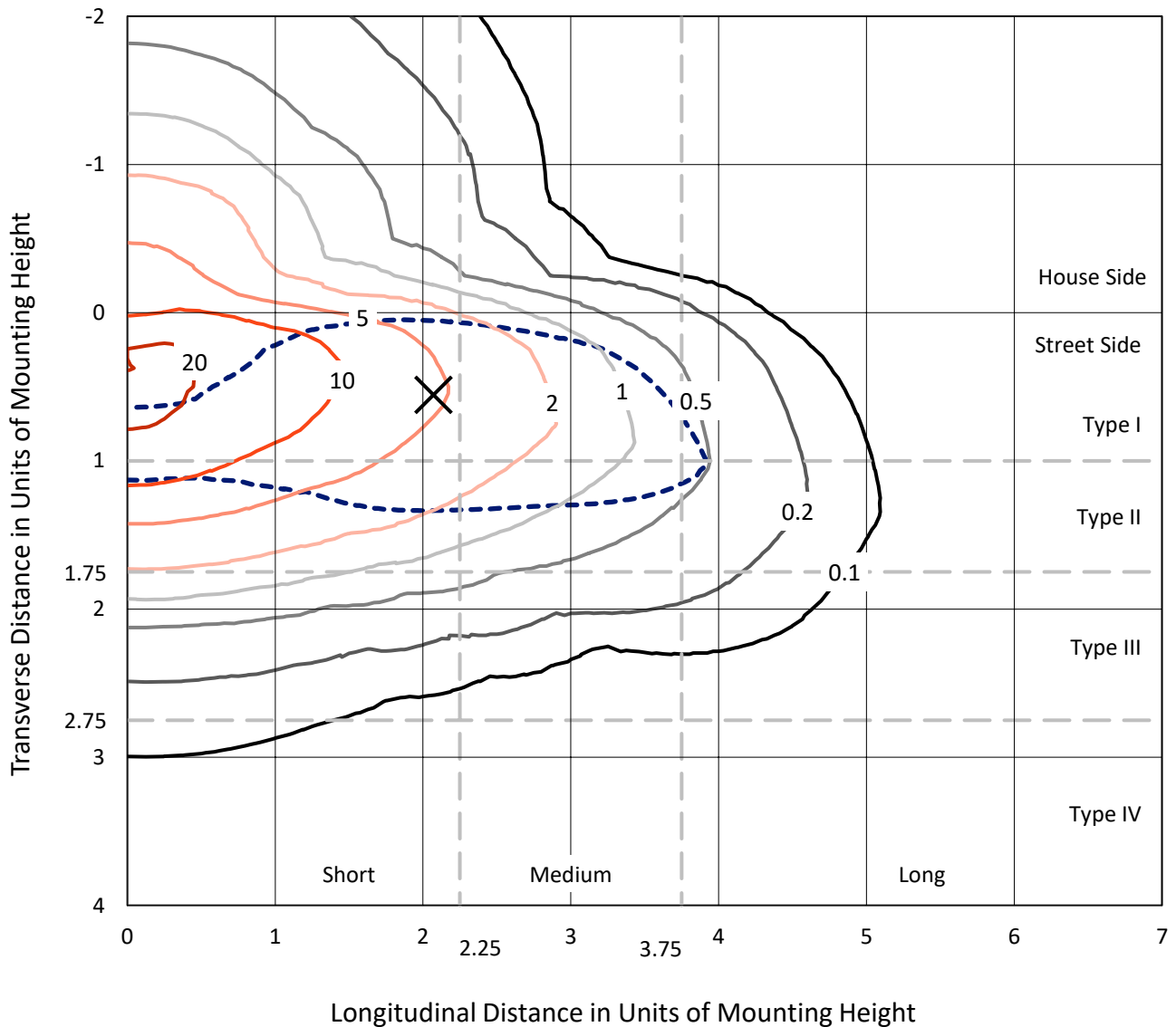
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

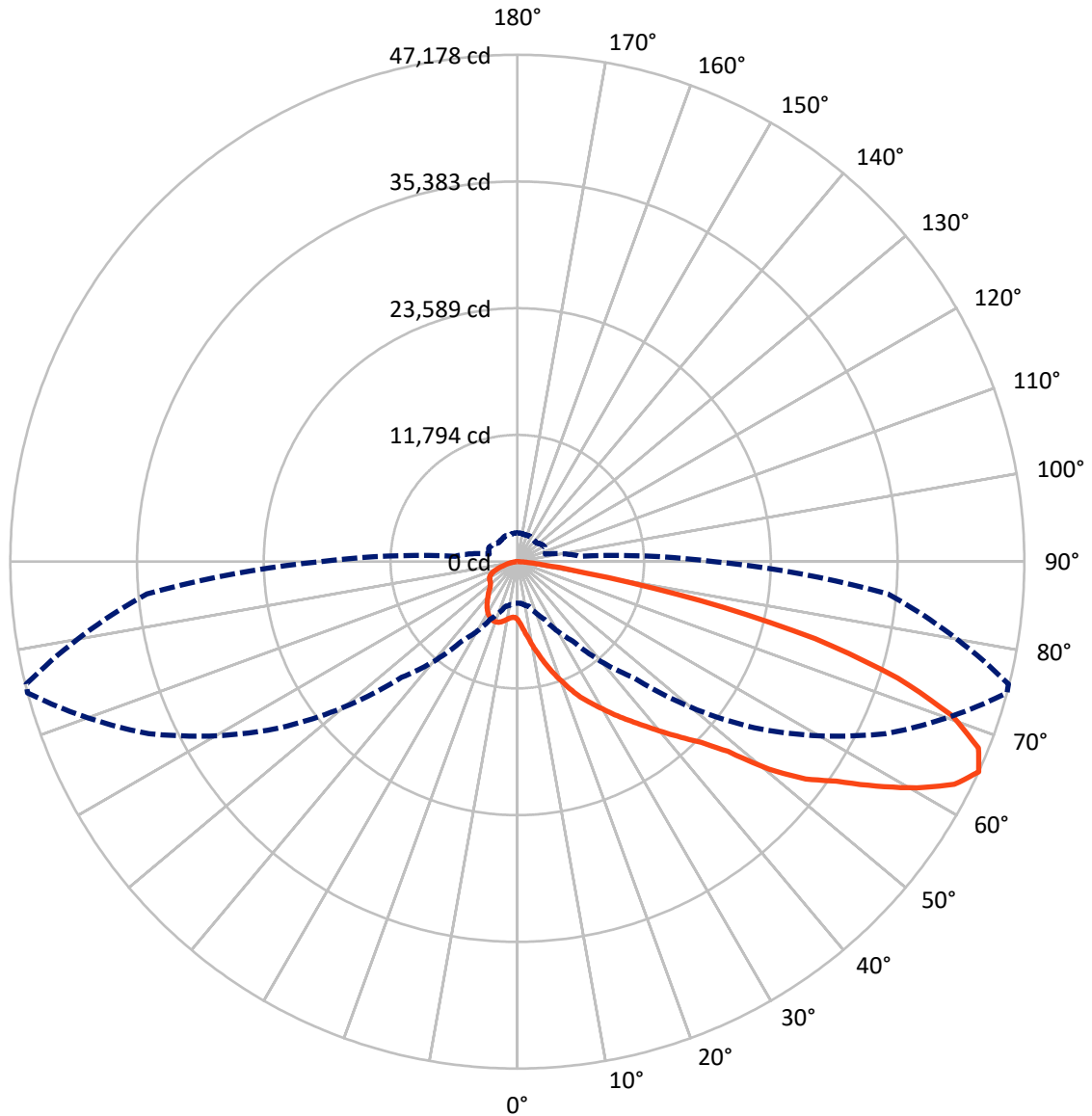
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9747.0	0.0	9747.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	48232.0	0.0	48232.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	57979.0	0.0	57979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.5	1.1
10°-20°	2563.6	4.4
20°-30°	4952.0	8.5
30°-40°	8043.5	13.9
40°-50°	11064.6	19.1
50°-60°	13063.5	22.5
60°-70°	11445.8	19.7
70°-80°	5464.3	9.4
80°-90°	727.1	1.3
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°	57979.0	100.0
0°-180°	57979.0	100.0

Coefficient of Utilization



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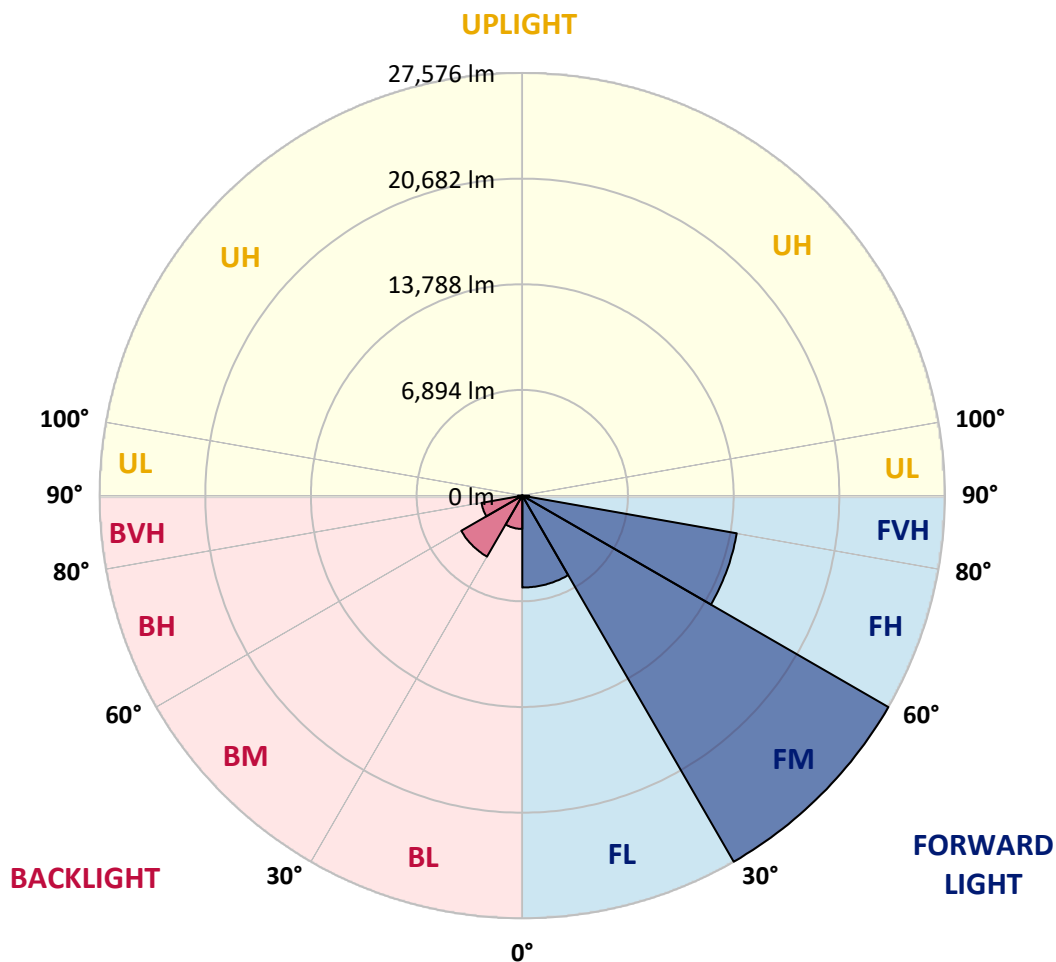
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5994.1	10.3			
FM	(30°-60°)	27576.0	47.6			
FH	(60°-80°)	14207.5	24.5			G5
FVH	(80°-90°)	454.4	0.8			G3/500
BL	(0°-30°)	2176.0	3.8	B3/2500		
BM	(30°-60°)	4595.7	7.9	B3/5000		
BH	(60°-80°)	2702.7	4.7	B4/5000		G4/5000
BVH	(80°-90°)	272.7	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5387.0	5387.0	5387.0	5387.0	5387.0	5387.0	5387.0	5387.0	5387.0	5387.0	5387.0
2.5°	7157.5	7110.3	7060.0	6921.6	6773.8	6607.1	6368.1	6138.6	5833.5	5824.1	5597.7
5°	9141.8	9110.4	8887.1	8758.2	8415.4	7959.4	7572.6	6971.9	6415.3	6349.3	5909.0
7.5°	10965.8	10843.1	10758.2	10525.5	10185.9	9601.0	8852.5	8041.2	7110.3	7022.3	6292.7
10°	12340.1	12327.5	12283.4	12082.2	11827.5	11245.7	10415.5	9251.9	7990.8	7817.9	6758.1
12.5°	13368.4	13377.8	13371.5	13368.4	13186.0	12692.3	11792.9	10566.4	8880.8	8758.2	7295.9
15°	14044.5	14138.9	14176.6	14333.8	14349.6	14019.4	13245.7	11836.9	9884.0	9701.6	7874.5
17.5°	14491.1	14538.2	14714.4	14981.7	15198.6	15138.9	14450.2	13013.0	10909.2	10604.1	8475.1
20°	14918.8	15000.5	15135.8	15500.5	15884.2	16060.3	15576.0	14217.5	11924.9	11730.0	9138.7
22.5°	15808.7	15925.1	15972.3	16157.8	16484.9	16796.2	16576.1	15371.6	13038.2	12774.0	9843.1
25°	17315.1	17437.7	17305.6	17261.6	17368.5	17522.6	17475.5	16459.7	14088.5	13711.2	10509.8
27.5°	19277.4	19293.1	19035.3	18790.0	18525.8	18447.2	18302.5	17425.1	15000.5	14686.0	11179.6
30°	21384.4	21308.9	20881.2	20437.8	19991.3	19551.0	19135.9	18356.0	16016.3	15654.6	11836.9
32.5°	23340.4	23299.6	22824.7	22136.0	21381.3	20966.1	20126.5	19296.3	17104.4	16755.3	12513.0
35°	24805.9	24865.7	24343.6	23592.0	22768.1	22400.2	21340.4	20283.7	18230.2	17849.7	13248.9
37.5°	25846.8	25815.4	25353.1	24702.1	23978.8	23658.1	22758.7	21362.4	19440.9	19076.1	14054.0
40°	26217.9	26199.0	25856.3	25381.4	24922.3	24809.0	24243.0	22525.9	20827.8	20400.1	15022.5
42.5°	25982.0	26022.9	25796.5	25667.6	25582.7	25664.4	25717.9	24051.2	22340.4	21947.3	16072.9
45°	25258.7	25236.7	25205.3	25416.0	25894.0	26431.7	27177.1	25491.5	23985.1	23670.6	17481.7
47.5°	23966.2	24123.5	24202.1	24783.9	25827.9	27101.6	28856.4	27422.3	26372.0	26098.4	19629.6
50°	22158.0	22283.8	22749.2	23783.9	25340.5	27353.2	30497.9	30579.7	30353.3	29840.7	21963.0
52.5°	19334.0	19529.0	20488.1	22384.4	24340.5	27249.4	31491.7	33287.3	33586.1	33202.4	24261.9
55°	16173.5	16447.1	17459.7	19947.2	22963.1	26683.3	32177.2	34856.6	36048.4	35693.1	26475.8
57.5°	13079.1	13368.4	14409.3	16818.2	20560.5	25431.7	32626.9	36605.1	39400.8	38938.5	29230.6
60°	9802.2	10104.1	10997.2	13478.5	17139.0	22985.1	32321.9	38120.8	42749.9	42551.8	31988.5
62.5°	6324.1	6657.5	7434.2	9487.8	13173.4	19642.2	30689.8	38957.3	45649.4	45410.4	34001.2
65°	3852.3	3890.1	4317.8	5890.1	9016.0	15208.1	26956.9	37847.2	47177.8	47105.4	34614.4
67.5°	2490.7	2550.4	2745.4	3528.4	5405.8	10563.3	21554.2	34183.6	46284.6	46259.5	33347.1
70°	2103.8	2122.7	2210.8	2380.6	3141.6	6405.9	15135.8	28343.8	42891.4	42891.4	30299.8
72.5°	1880.6	1905.7	1937.2	1990.6	2242.2	3629.1	9031.8	22063.7	37032.7	37278.0	25790.2
75°	1707.6	1701.3	1720.2	1729.6	1912.0	2371.2	4670.0	16318.2	28648.8	28158.2	18676.8
77.5°	1462.3	1471.7	1462.3	1503.2	1688.7	1805.1	2371.2	10950.1	17362.2	16727.0	9374.5
80°	1201.3	1217.0	1232.7	1257.9	1443.4	1371.1	1424.6	4990.7	6421.6	6286.4	2896.3
82.5°	902.5	924.6	949.7	1009.5	1135.3	905.7	899.4	2132.2	2317.7	2122.7	1066.1
85°	364.8	430.8	651.0	710.7	713.9	496.9	553.5	890.0	946.6	924.6	418.3
87.5°	84.9	100.6	210.7	317.6	292.5	185.5	204.4	289.3	330.2	305.0	141.5
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°	5387.0	5387.0	5387.0	5387.0	5387.0	5387.0	5387.0	5387.0	5387.0	5387.0	5387.0
2.5°	5493.9	5383.8	5195.2	5050.5	4946.7	4855.5	4798.9	4764.3	4751.7	4748.6	4751.7
5°	5679.4	5484.5	5185.7	4997.0	4893.3	4833.5	4798.9	4795.8	4798.9	4802.1	4792.6
7.5°	5934.2	5654.3	5264.3	5088.2	5009.6	4965.6	4949.9	4943.6	4946.7	4943.6	4943.6
10°	6273.8	5890.1	5418.4	5236.0	5170.0	5119.7	5094.5	5078.8	5066.2	5053.6	5047.3
12.5°	6648.0	6151.2	5585.1	5409.0	5314.7	5236.0	5179.4	5138.5	5110.2	5081.9	5075.6
15°	7066.3	6427.9	5770.6	5525.4	5390.1	5273.8	5176.3	5110.2	5059.9	5019.0	5015.9
17.5°	7465.7	6688.9	5896.4	5578.8	5380.7	5217.2	5088.2	4997.0	4934.1	4880.7	4874.4
20°	7893.4	6937.4	5953.0	5544.2	5286.3	5088.2	4918.4	4808.3	4736.0	4676.3	4666.8
22.5°	8324.2	7148.0	5946.7	5434.2	5122.8	4890.1	4710.9	4594.5	4509.6	4449.8	4427.8
25°	8736.2	7317.9	5868.1	5258.0	4896.4	4654.3	4471.9	4364.9	4289.5	4217.1	4217.1
27.5°	9107.2	7418.5	5720.3	5044.2	4663.7	4409.0	4264.3	4166.8	4097.6	4050.5	4022.2
30°	9472.0	7465.7	5519.1	4773.8	4418.4	4201.4	4085.0	4028.4	3965.5	3912.1	3905.8
32.5°	9799.1	7456.2	5267.5	4509.6	4185.7	4031.6	3984.4	3940.4	3874.3	3798.9	3780.0
35°	10116.7	7393.3	4968.7	4220.3	3990.7	3931.0	3943.5	3880.6	3761.1	3666.8	3651.1
37.5°	10462.6	7280.1	4641.7	3984.4	3827.2	3883.8	3915.2	3776.9	3581.9	3434.1	3399.5
40°	10862.0	7151.2	4302.0	3748.6	3698.2	3839.8	3839.8	3585.0	3317.7	3226.5	3201.4
42.5°	11330.6	7044.3	4019.0	3550.4	3591.3	3732.8	3717.1	3330.3	3220.2	3173.1	3160.5
45°	12072.8	7006.5	3726.5	3377.5	3503.3	3607.0	3478.1	3242.3	3179.4	3141.6	3129.0
47.5°	13245.7	7050.6	3468.7	3248.5	3402.6	3481.3	3210.8	3182.5	3138.5	3085.0	3078.7
50°	14333.8	7009.7	3286.3	3176.2	3314.6	3330.3	3100.7	3110.2	3085.0	3025.3	3012.7
52.5°	15223.8	6880.7	3169.9	3138.5	3239.1	3066.1	2997.0	3031.6	3022.1	2946.6	2934.1
55°	16201.8	6802.1	3113.3	3138.5	3188.8	2836.6	2899.5	2949.8	2937.2	2883.7	2880.6
57.5°	17387.4	6817.8	3072.4	3147.9	3138.5	2720.2	2802.0	2861.7	2858.6	2842.9	2842.9
60°	18601.3	6824.1	3009.5	3144.8	3078.7	2629.0	2701.4	2786.3	2792.6	2802.0	2802.0
62.5°	19003.8	6550.5	2886.9	3088.2	2946.6	2541.0	2607.0	2723.4	2717.1	2742.2	2745.4
65°	18252.2	5792.7	2704.5	2959.2	2776.8	2478.1	2534.7	2641.6	2607.0	2673.0	2685.6
67.5°	16613.8	4792.6	2421.5	2726.5	2588.1	2412.0	2487.5	2528.4	2465.5	2594.4	2597.6
70°	14359.0	3742.3	2063.0	2396.3	2374.3	2342.8	2449.8	2386.9	2298.8	2456.1	2424.6
72.5°	12006.7	2858.6	1647.9	1959.2	2088.1	2239.1	2383.7	2204.5	2081.8	2129.0	2072.4
75°	9019.2	2113.3	1323.9	1534.6	1739.1	2091.3	2324.0	1984.3	1795.7	1751.6	1739.1
77.5°	4597.6	1380.6	990.6	1147.8	1305.1	1890.0	2242.2	1726.5	1487.5	1418.3	1386.8
80°	1641.6	858.5	698.1	792.5	880.5	1625.8	1959.2	1427.7	1154.1	1141.5	1154.1
82.5°	761.0	553.5	468.6	518.9	522.0	1084.9	1493.8	1066.1	877.4	1333.4	1125.8
85°	327.1	276.7	264.2	257.9	239.0	484.3	839.7	572.3	893.1	399.4	367.9
87.5°	97.5	110.1	97.5	72.3	53.5	53.5	84.9	31.4	22.0	15.7	15.7
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)