

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: P647593

Luminaire Tested: **GALN-SA8D-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44136.1 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

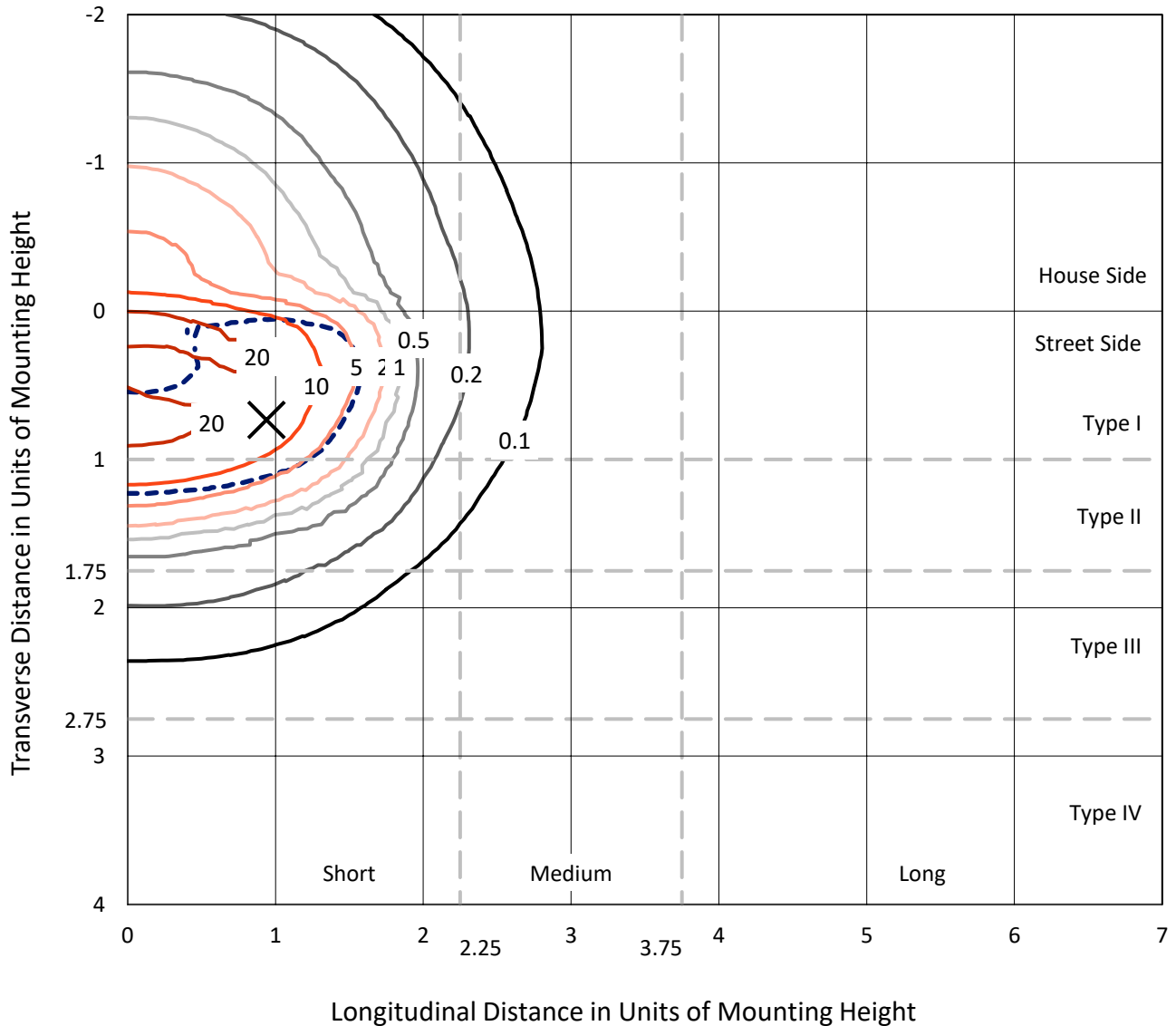
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

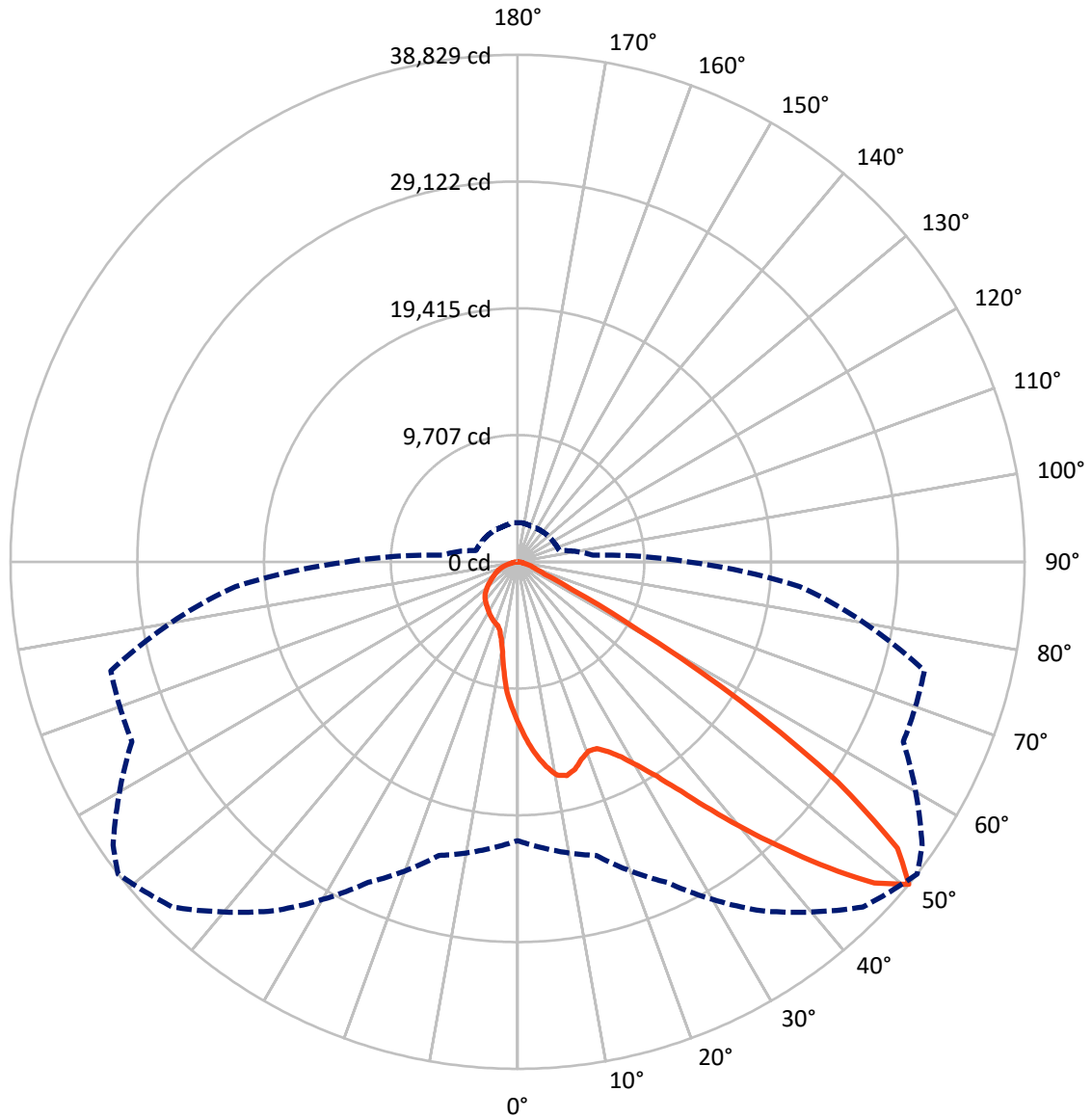
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8296.5	0.0	8296.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	35839.6	0.0	35839.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	44136.1	0.0	44136.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1146.7	2.6
10°-20°	3073.5	7.0
20°-30°	5177.1	11.7
30°-40°	8687.6	19.7
40°-50°	13289.9	30.1
50°-60°	9689.4	22.0
60°-70°	2156.4	4.9
70°-80°	777.8	1.8
80°-90°	137.7	0.3
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°	44136.1	100.0
0°-180°	44136.1	100.0

Coefficient of Utilization

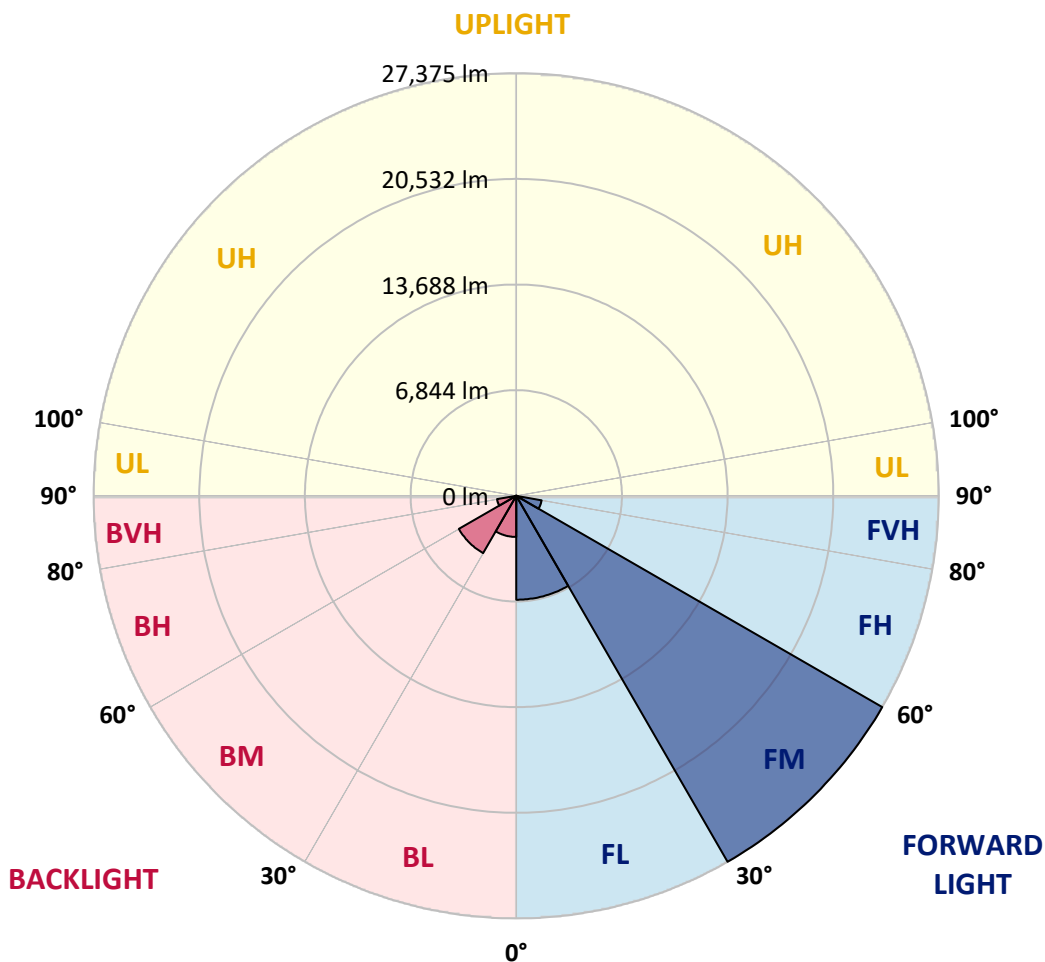


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6732.3	15.3			
FM (30°-60°)	27375.5	62.0			
FH (60°-80°)	1670.2	3.8			G1/1800
FVH (80°-90°)	61.7	0.1			G1/100
BL (0°-30°)	2665.0	6.0	B4/5000		
BM (30°-60°)	4291.5	9.7	B3/5000		
BH (60°-80°)	1264.0	2.9	B3/2500		G3/2500
BVH (80°-90°)	76.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	12441.2	12441.2	12441.2	12441.2	12441.2	12441.2	12441.2	12441.2	12441.2	12441.2	12441.2
2.5°	14648.7	14366.7	14398.7	14196.5	13978.4	13914.6	13691.2	13478.5	13318.9	12978.5	12664.6
5°	16010.3	15925.2	15797.6	15638.0	15473.1	15068.8	14840.1	14574.2	13989.1	13462.5	12941.3
7.5°	16207.2	16191.2	16260.3	16260.3	16318.8	16164.6	15840.1	15654.0	15031.6	14175.3	13207.2
10°	14824.1	14872.1	15207.1	15643.3	16249.7	16669.9	16616.7	16568.8	15888.0	14717.8	13521.0
12.5°	13723.2	13616.8	13813.5	14185.9	15095.5	16111.4	16797.5	16802.9	16627.3	15584.8	13749.7
15°	13100.8	13175.3	13228.5	13404.0	14090.2	15265.7	16473.1	16829.5	17600.7	16196.5	14111.5
17.5°	13499.7	13249.8	13239.1	13281.6	13632.7	14515.6	15872.0	16483.7	18132.6	16983.7	14558.2
20°	14021.0	14015.7	13866.8	13813.5	13808.2	14595.4	15478.4	16308.2	18414.5	18005.0	15010.3
22.5°	14935.9	14935.9	14691.2	14574.2	14324.2	14967.8	15531.6	16095.4	18882.6	18707.0	15228.4
25°	16467.7	16217.7	15797.6	15510.4	15366.7	15595.4	16095.4	16600.8	19292.2	19451.8	15680.5
27.5°	17882.6	17489.0	17281.6	16786.9	16595.5	16462.4	16919.8	17430.5	19770.9	20611.3	15925.2
30°	19488.9	19419.8	19047.5	18409.2	17935.8	17691.2	18111.3	18616.7	20648.6	21797.5	16489.0
32.5°	22361.3	21733.7	21228.3	20446.4	19675.1	19153.9	19568.7	19903.9	22106.0	23036.8	17106.0
35°	25462.3	25260.1	24387.8	22978.3	21797.5	21329.4	21574.1	21824.0	23802.7	24930.3	18143.3
37.5°	28510.0	28233.5	27515.4	26329.2	24893.1	23941.0	24116.6	24409.1	25706.9	27483.5	19409.2
40°	30701.5	30361.1	29999.4	29823.9	28398.4	27095.2	26994.2	27068.6	28281.3	29877.1	20813.4
42.5°	30861.1	31281.3	31393.0	32100.4	31765.4	30696.2	30073.9	30089.8	30738.8	32244.0	22233.6
45°	30526.0	30137.7	30962.2	32893.0	33999.3	34499.3	33451.5	33318.5	32260.0	33616.4	22941.0
47.5°	27010.1	27116.5	28510.0	31563.2	34760.0	36993.9	36749.3	36307.8	33073.8	33568.5	22829.3
50°	21350.7	21994.2	23286.8	27089.9	32632.3	37387.5	38829.0	37807.8	32589.8	32249.3	21691.1
52.5°	14217.8	14483.8	15334.8	20244.3	26238.9	33419.5	36435.5	36669.5	32143.0	30520.7	20249.6
55°	6329.7	6308.4	7505.2	10574.3	16462.4	25430.4	29770.7	31196.2	30425.0	28760.1	18845.4
57.5°	2680.8	2771.2	3260.6	4569.0	8095.6	15345.5	20169.8	21419.8	23398.5	23616.5	14457.2
60°	1813.8	1824.5	1957.4	2287.2	3388.2	7207.3	10579.6	12079.6	13494.5	13398.7	7670.0
62.5°	1425.5	1462.7	1563.8	1696.8	2010.6	3271.2	4733.9	5569.0	5659.4	4760.6	2909.5
65°	1218.0	1223.4	1324.4	1436.2	1574.5	1904.3	2281.9	2324.4	2351.0	2265.9	2138.3
67.5°	1005.3	1015.9	1095.7	1223.4	1351.1	1457.4	1563.8	1617.0	1739.4	1978.7	1946.8
70°	797.9	813.9	883.0	989.3	1106.4	1170.2	1303.1	1351.1	1462.7	1648.9	1723.4
72.5°	606.4	611.7	670.2	744.6	851.0	914.9	1026.6	1079.8	1154.2	1313.8	1382.9
75°	436.1	452.1	494.7	531.9	547.9	590.4	696.8	755.3	861.7	930.8	936.2
77.5°	228.7	239.4	250.0	250.0	303.2	383.0	452.1	484.1	558.5	611.7	585.1
80°	90.4	95.8	122.3	164.9	212.7	276.6	324.5	340.4	404.3	436.1	452.1
82.5°	53.2	58.5	79.8	117.0	154.3	196.8	234.0	250.0	292.5	329.8	340.4
85°	26.6	31.9	47.8	74.5	101.1	122.3	117.0	111.7	111.7	106.4	111.7
87.5°	10.6	10.6	16.0	16.0	16.0	21.3	26.6	26.6	26.6	31.9	31.9
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°	12441.2	12441.2	12441.2	12441.2	12441.2	12441.2	12441.2	12441.2	12441.2	12441.2	12441.2
2.5°	12457.2	12244.5	12047.6	11686.0	11292.3	11180.6	10723.2	10558.3	10441.3	10303.0	10260.4
5°	12521.0	12239.2	11606.2	10877.4	10297.7	9553.0	9063.6	8537.0	8154.1	8058.3	8031.8
7.5°	12654.0	12170.0	11079.6	9978.6	8792.4	7781.8	7010.5	6595.6	6228.6	6207.3	6170.1
10°	12802.9	11962.5	10505.1	8776.4	7260.5	6324.4	5861.6	5680.7	5590.3	5569.0	5558.4
12.5°	12925.3	11920.0	9861.5	7606.2	6175.4	5611.6	5473.3	5457.4	5494.5	5505.2	5526.5
15°	12978.5	11749.8	9084.9	6558.4	5499.9	5292.5	5350.9	5414.8	5441.4	5510.5	5457.4
17.5°	13079.5	11531.7	8127.5	5728.6	5122.2	5159.5	5260.5	5335.0	5377.6	5425.4	5356.3
20°	13132.7	11334.9	7228.6	5234.0	4989.3	5058.4	5196.7	5255.2	5308.4	5329.6	5249.9
22.5°	13084.9	10930.6	6436.0	4835.0	4861.6	4952.0	5074.4	5138.2	5106.3	5021.1	4973.3
25°	12957.2	10361.5	5611.6	4579.7	4680.8	4840.3	4936.1	4888.2	4829.7	4781.9	4765.9
27.5°	12951.8	9664.7	5015.9	4345.7	4526.5	4744.6	4712.6	4670.1	4696.7	4659.5	4617.0
30°	12978.5	8989.2	4526.5	4212.7	4414.8	4521.2	4558.4	4515.9	4547.8	4478.6	4499.9
32.5°	12840.2	8329.6	4207.4	4058.4	4281.8	4276.5	4398.8	4430.8	4356.3	4212.7	4234.0
35°	12898.7	7797.7	3936.1	3989.3	4132.9	4132.9	4228.7	4191.4	3994.6	3909.5	3930.7
37.5°	13302.9	7276.4	3803.1	3893.5	3989.3	4031.8	4000.0	3840.4	3792.5	3792.5	3803.1
40°	13685.9	6829.6	3723.3	3872.2	3856.3	3882.9	3648.9	3664.8	3664.8	3670.2	3643.5
42.5°	14026.3	6526.5	3659.5	3744.6	3771.2	3632.9	3489.3	3473.3	3510.6	3505.3	3484.0
45°	14148.7	6276.4	3569.1	3601.0	3622.2	3393.5	3324.4	3292.5	3335.0	3351.0	3372.3
47.5°	13680.6	6069.0	3468.0	3404.2	3361.7	3212.7	3122.3	3063.8	3117.0	3207.4	3228.6
50°	13079.5	5797.7	3308.4	3186.1	3095.7	3031.9	2968.0	2909.5	2946.7	3010.6	2994.6
52.5°	12191.2	5372.2	3106.3	2978.7	2824.4	2840.3	2781.8	2750.0	2771.2	2771.2	2755.3
55°	10925.4	4414.8	2765.9	2675.5	2547.8	2590.4	2601.0	2558.5	2515.9	2553.1	2521.3
57.5°	7457.3	3117.0	2468.0	2468.0	2340.4	2398.9	2393.6	2292.5	2191.5	2202.1	2180.8
60°	4313.8	2484.0	2276.6	2255.3	2122.3	2170.2	2180.8	2111.7	1957.4	1968.1	1946.8
62.5°	2452.0	2122.3	1989.3	1957.4	1930.8	1973.4	1973.4	1883.0	1750.0	1760.6	1739.4
65°	2085.1	1968.1	1776.5	1771.2	1760.6	1771.2	1728.7	1632.9	1516.0	1468.0	1473.4
67.5°	1893.6	1819.1	1632.9	1585.1	1553.2	1547.8	1468.0	1377.6	1324.4	1281.9	1276.6
70°	1659.6	1601.0	1462.7	1398.9	1367.0	1292.5	1212.7	1154.2	1079.8	1058.5	1079.8
72.5°	1313.8	1308.5	1255.3	1186.2	1117.0	1058.5	989.3	909.5	840.4	824.4	787.2
75°	909.5	920.2	930.8	920.2	861.7	787.2	707.4	643.6	558.5	510.6	500.0
77.5°	595.7	611.7	627.7	606.4	569.2	500.0	446.8	367.0	303.2	266.0	260.7
80°	436.1	457.4	468.1	452.1	409.6	356.3	297.9	234.0	186.2	154.3	154.3
82.5°	335.1	356.3	367.0	340.4	297.9	255.3	212.7	164.9	127.6	101.1	95.8
85°	117.0	111.7	133.0	138.3	164.9	154.3	127.6	95.8	74.5	53.2	47.8
87.5°	31.9	31.9	37.3	37.3	31.9	26.6	26.6	26.6	21.3	16.0	16.0
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)