

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: P528149

Luminaire Tested: **GALN-SA3B-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10597 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

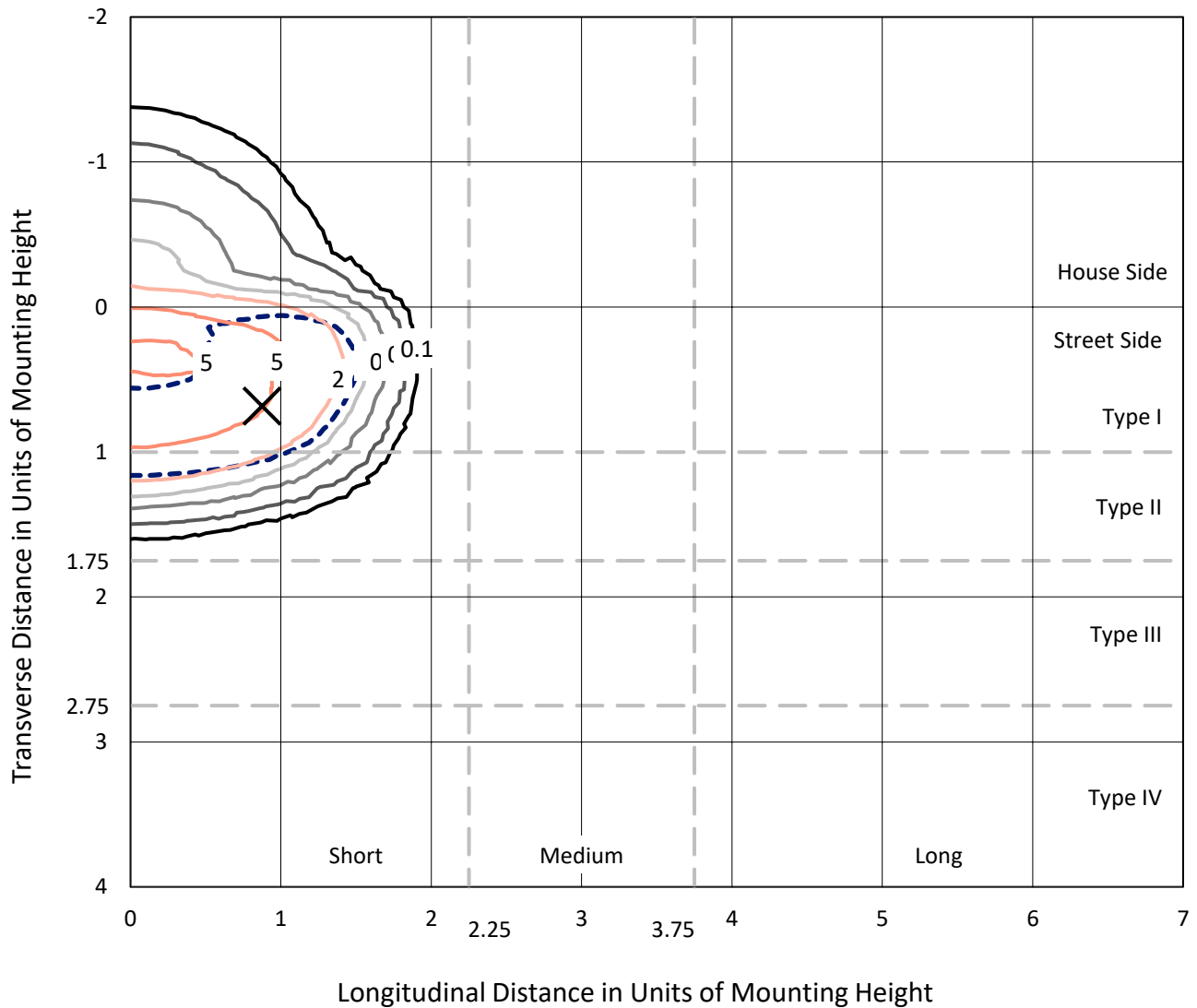
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528149
 CATALOG NUMBER: GALN-SA3B-727-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

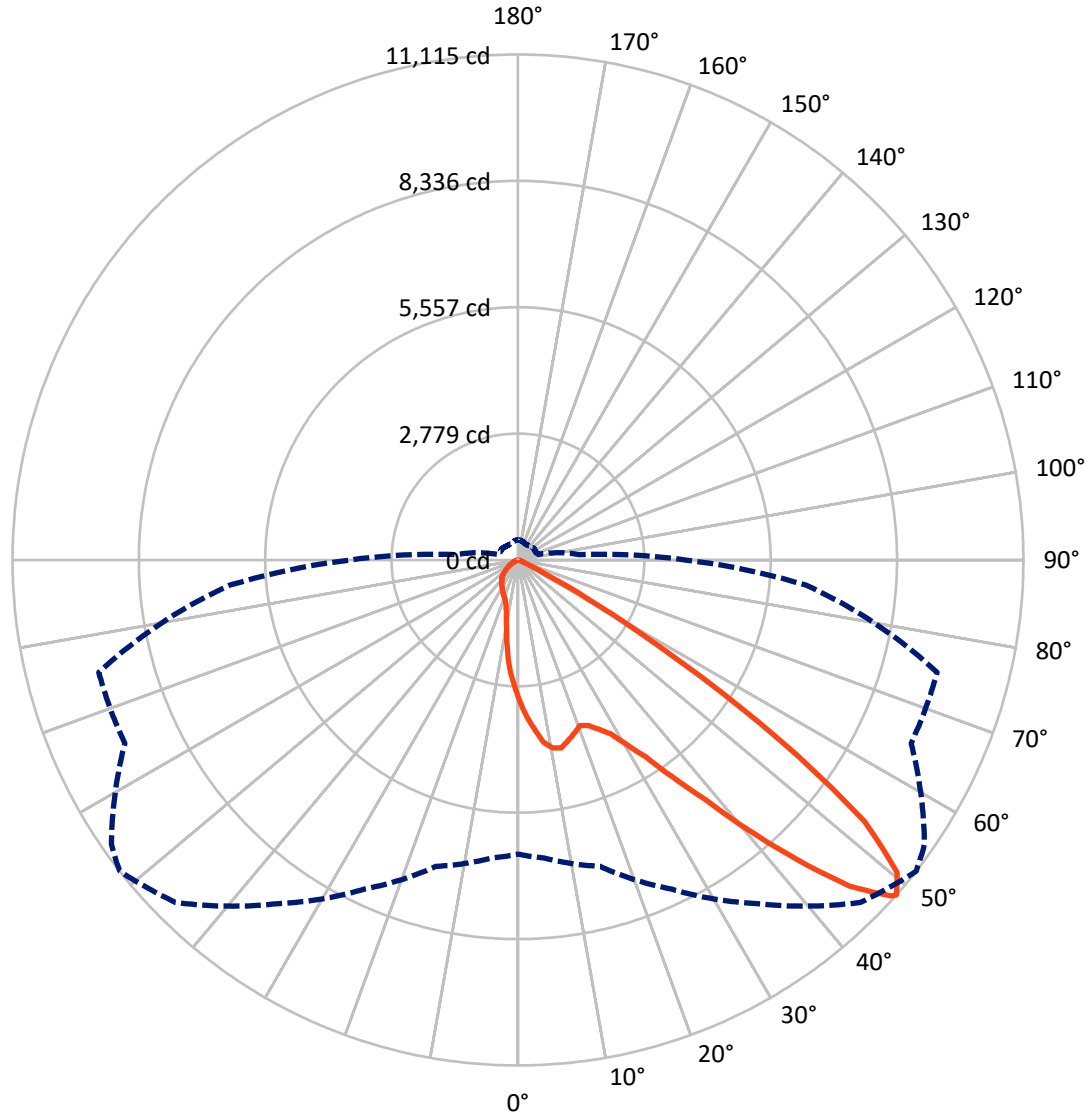
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

REPORT NUMBER: P528149
CATALOG NUMBER: GALN-SA3B-727-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1290.3	0.0	1290.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	9306.7	0.0	9306.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	10597.0	0.0	10597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.1	2.6
10°-20°	732.0	6.9
20°-30°	1249.8	11.8
30°-40°	2301.5	21.7
40°-50°	3574.3	33.7
50°-60°	2151.1	20.3
60°-70°	248.8	2.3
70°-80°	48.2	0.5
80°-90°	11.1	0.1
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°	10597.0	100.0
0°-180°	10597.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528149

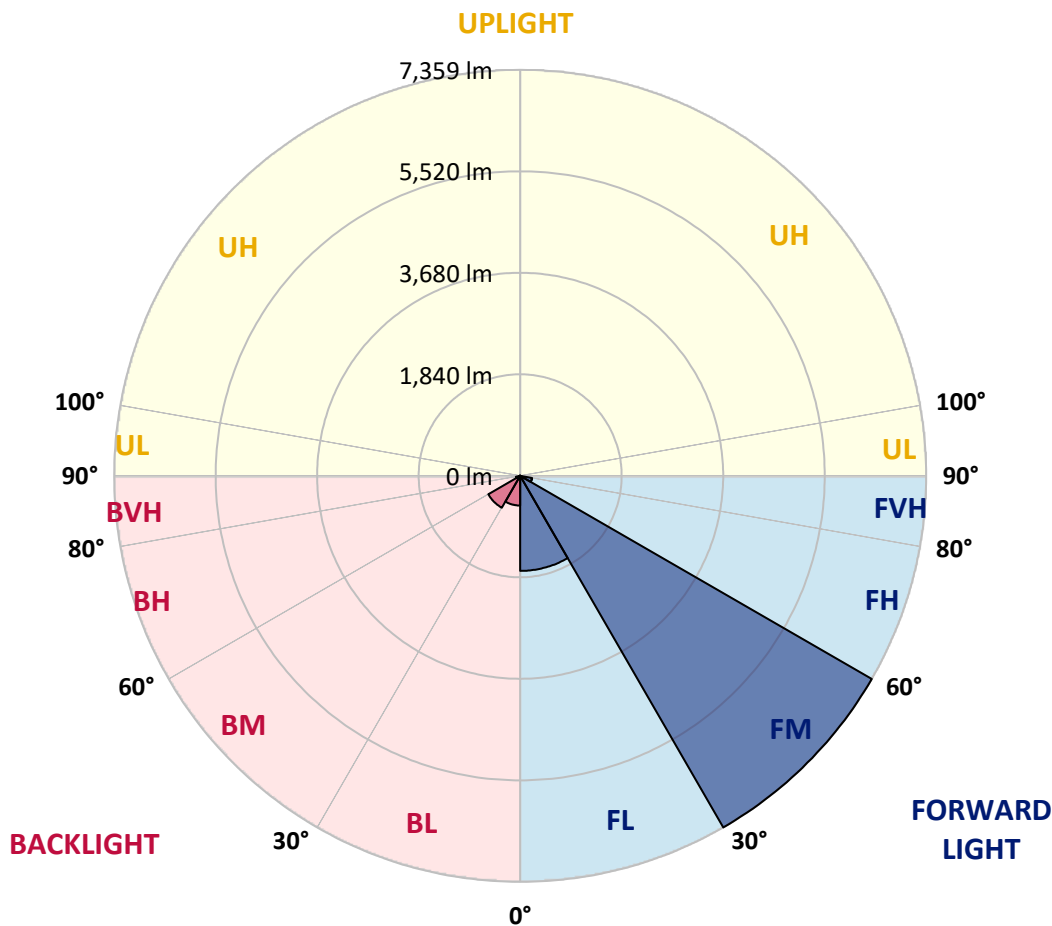
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1722.9	16.3			
FM (30°-60°)	7359.4	69.4			
FH (60°-80°)	219.1	2.1			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	539.0	5.1	B2/1000		
BM (30°-60°)	667.6	6.3	B1/1000		
BH (60°-80°)	77.9	0.7	B0/110		G0/110
BVH (80°-90°)	5.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short





REPORT NUMBER: P528149

CATALOG NUMBER: GALN-SA3B-727-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3060.2	3060.2	3060.2	3060.2	3060.2	3060.2	3060.2	3060.2	3060.2	3060.2	3060.2
2.5°	3709.1	3624.1	3631.8	3576.2	3543.8	3491.2	3420.2	3406.3	3329.0	3224.0	3117.4
5°	4042.7	4022.6	4048.9	3968.6	3971.7	3885.2	3718.3	3721.4	3543.8	3372.3	3207.0
7.5°	4064.4	4018.0	4044.3	4115.3	4157.0	4141.6	4047.4	3965.5	3797.1	3545.3	3304.3
10°	3639.5	3727.6	3755.4	3872.8	4039.6	4215.7	4204.9	4209.6	4069.0	3739.9	3387.7
12.5°	3384.6	3325.9	3420.2	3491.2	3743.0	4084.4	4240.5	4274.4	4285.3	3928.4	3471.2
15°	3268.8	3268.8	3284.2	3304.3	3486.6	3801.7	4120.0	4218.8	4452.1	4175.6	3602.5
17.5°	3341.4	3338.3	3359.9	3318.2	3386.2	3628.7	4008.7	4121.5	4639.0	4418.1	3706.0
20°	3562.3	3573.1	3559.2	3438.7	3443.3	3625.6	3885.2	4062.8	4765.7	4628.2	3843.4
22.5°	3869.7	3875.9	3797.1	3665.8	3627.2	3716.8	3956.2	4092.2	4867.6	4880.0	3885.2
25°	4225.0	4200.3	4184.8	3999.5	3882.1	3959.3	4116.9	4195.7	4931.0	5096.3	4004.1
27.5°	4717.8	4668.4	4574.1	4408.8	4322.3	4212.7	4325.4	4455.2	5111.7	5399.1	4133.9
30°	5445.4	5402.1	5218.3	5005.1	4778.0	4669.9	4705.4	4776.5	5437.7	5749.7	4305.3
32.5°	6540.7	6449.5	6183.8	5777.5	5468.6	5170.4	5161.2	5236.9	5729.6	6234.8	4509.3
35°	7747.1	7719.3	7328.5	6909.9	6312.0	5851.7	5859.4	5899.6	6288.9	6871.2	4776.5
37.5°	8548.9	8701.8	8453.1	8003.6	7501.5	6843.4	6676.6	6690.5	7056.6	7625.1	5258.5
40°	9168.4	9038.6	9067.9	8962.9	8620.0	8172.0	7802.8	7730.2	7944.9	8459.3	5737.4
42.5°	8898.0	8904.2	9084.9	9333.6	9418.6	9386.2	9009.2	8871.8	8704.9	9142.1	6193.1
45°	8134.9	8294.0	8528.8	9186.9	9764.6	10306.9	10232.7	10004.1	9230.1	9682.8	6455.7
47.5°	6917.6	6911.4	7296.1	8151.9	9435.6	10705.4	11042.2	10881.5	9602.4	9622.5	6401.6
48°	6468.1	6579.3	6976.3	7983.5	9227.1	10646.7	11114.8	10912.4	9539.1	9542.2	6355.3
50°	4781.1	4761.1	5255.4	6491.2	8241.5	10004.1	10808.9	10966.5	9537.6	9135.9	6030.9
52.5°	2525.7	2612.2	2972.2	4081.3	5827.0	8187.4	9534.5	9780.1	9200.8	8471.7	5564.3
55°	1073.6	970.1	1246.6	1842.9	3278.1	5470.1	6994.8	7541.7	7779.6	7496.9	4867.6
57.5°	383.1	418.6	482.0	693.6	1378.0	2993.8	4170.9	4595.8	5389.8	5501.0	3316.7
60°	245.6	250.3	270.3	318.2	517.5	1154.0	1978.9	2317.2	2677.1	2763.6	1547.9
62.5°	190.0	191.6	200.8	208.5	245.6	448.0	743.0	880.5	914.5	786.3	406.3
65°	159.1	160.7	163.7	163.7	174.6	210.1	259.5	285.8	278.1	275.0	230.2
67.5°	122.0	125.1	131.3	131.3	137.5	128.2	143.7	152.9	173.0	210.1	196.2
70°	95.8	97.3	102.0	105.0	105.0	92.7	103.5	112.8	126.7	156.0	154.5
72.5°	74.2	77.2	80.3	80.3	75.7	63.3	74.2	81.9	91.1	108.1	105.0
75°	57.2	57.2	58.7	47.9	37.1	32.4	44.8	54.1	68.0	71.1	58.7
77.5°	15.4	17.0	15.4	13.9	15.4	23.2	29.4	34.0	43.3	43.3	38.6
80°	0.0	1.5	4.6	9.3	15.4	21.6	26.3	29.4	34.0	37.1	35.5
82.5°	0.0	1.5	4.6	9.3	13.9	17.0	23.2	24.7	27.8	32.4	32.4
85°	0.0	1.5	3.1	6.2	9.3	10.8	10.8	9.3	9.3	7.7	6.2
87.5°	0.0	0.0	1.5	3.1	3.1	4.6	4.6	4.6	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P528149

CATALOG NUMBER: GALN-SA3B-727-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3060.2	3060.2	3060.2	3060.2	3060.2	3060.2	3060.2	3060.2	3060.2	3060.2	3060.2
2.5°	3075.7	3027.8	2955.2	2840.9	2731.2	2660.1	2592.2	2516.5	2474.8	2471.7	2448.5
5°	3112.8	3004.6	2831.6	2635.4	2425.3	2244.6	2062.3	1943.4	1836.8	1778.1	1767.2
7.5°	3132.8	2992.3	2712.7	2383.6	2025.2	1730.2	1526.3	1376.4	1317.7	1274.5	1272.9
10°	3174.6	2970.6	2535.0	2049.9	1606.6	1308.4	1167.9	1099.9	1067.5	1055.1	1036.6
12.5°	3205.4	2930.5	2352.7	1707.0	1269.8	1084.4	1022.7	1007.2	1008.8	1014.9	1007.2
15°	3248.7	2894.9	2107.1	1401.1	1065.9	976.3	976.3	979.4	1001.0	1004.1	1002.6
17.5°	3245.6	2825.4	1853.8	1154.0	942.3	930.0	934.6	964.0	977.9	982.5	971.7
20°	3282.7	2760.5	1592.7	985.6	872.8	891.3	922.2	930.0	947.0	950.0	937.7
22.5°	3271.9	2598.3	1350.2	852.7	820.3	855.8	886.7	896.0	891.3	882.1	880.5
25°	3251.8	2459.3	1127.7	764.7	781.7	820.3	849.6	832.6	823.4	824.9	826.5
27.5°	3216.3	2283.2	943.9	702.9	729.1	786.3	784.8	778.6	787.8	780.1	787.8
30°	3210.1	2107.1	792.5	647.3	690.5	732.2	735.3	746.1	756.9	743.0	756.9
32.5°	3219.4	1914.0	684.3	613.3	667.4	668.9	702.9	713.7	706.0	675.1	678.2
35°	3290.4	1765.7	605.6	594.7	630.3	631.8	664.3	650.4	616.4	597.8	608.6
37.5°	3440.3	1642.1	568.5	577.8	580.8	600.9	602.5	574.7	577.8	576.2	582.4
40°	3631.8	1547.9	542.2	562.3	559.2	573.1	517.5	533.0	546.9	551.5	554.6
42.5°	3763.1	1479.9	525.2	537.6	531.4	506.7	475.8	491.2	502.1	519.1	522.1
45°	3821.8	1425.8	505.1	494.3	494.3	449.5	437.2	440.3	465.0	483.5	480.4
47.5°	3726.0	1373.3	469.6	437.2	448.0	410.9	397.0	397.0	423.3	446.4	441.8
48°	3689.0	1351.7	471.2	424.8	432.5	404.7	390.8	387.7	417.1	438.7	438.7
50°	3505.1	1271.4	431.0	390.8	375.4	372.3	363.0	366.1	384.7	404.7	404.7
52.5°	3146.7	1098.3	364.6	335.2	307.4	326.0	330.6	324.4	333.7	352.2	350.7
55°	2626.2	843.5	292.0	278.1	256.4	276.5	285.8	278.1	268.8	282.7	282.7
57.5°	1682.3	454.2	233.3	236.4	214.7	234.8	242.5	224.0	207.0	217.8	216.3
60°	758.5	271.9	191.6	186.9	173.0	196.2	208.5	186.9	163.7	171.5	179.2
62.5°	284.2	193.1	145.2	142.1	139.0	160.7	166.8	149.8	126.7	131.3	132.9
65°	208.5	169.9	115.9	105.0	111.2	126.7	123.6	106.6	91.1	91.1	94.2
67.5°	177.7	148.3	94.2	81.9	81.9	83.4	77.2	68.0	63.3	66.4	69.5
70°	139.0	117.4	74.2	63.3	57.2	51.0	44.8	43.3	38.6	43.3	41.7
72.5°	89.6	78.8	57.2	47.9	43.3	35.5	29.4	27.8	23.2	21.6	21.6
75°	47.9	47.9	44.8	38.6	34.0	27.8	23.2	18.5	12.4	9.3	9.3
77.5°	34.0	37.1	40.2	37.1	30.9	23.2	18.5	12.4	6.2	3.1	3.1
80°	32.4	37.1	40.2	35.5	30.9	23.2	17.0	9.3	4.6	1.5	1.5
82.5°	29.4	34.0	37.1	32.4	27.8	20.1	15.4	9.3	4.6	1.5	1.5
85°	6.2	7.7	9.3	9.3	10.8	13.9	10.8	7.7	3.1	1.5	1.5
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	3.1	3.1	1.5	1.5	1.5
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)