

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: P530859

Luminaire Tested: **GALN-SA6A-760-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530859  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-760-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15859 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

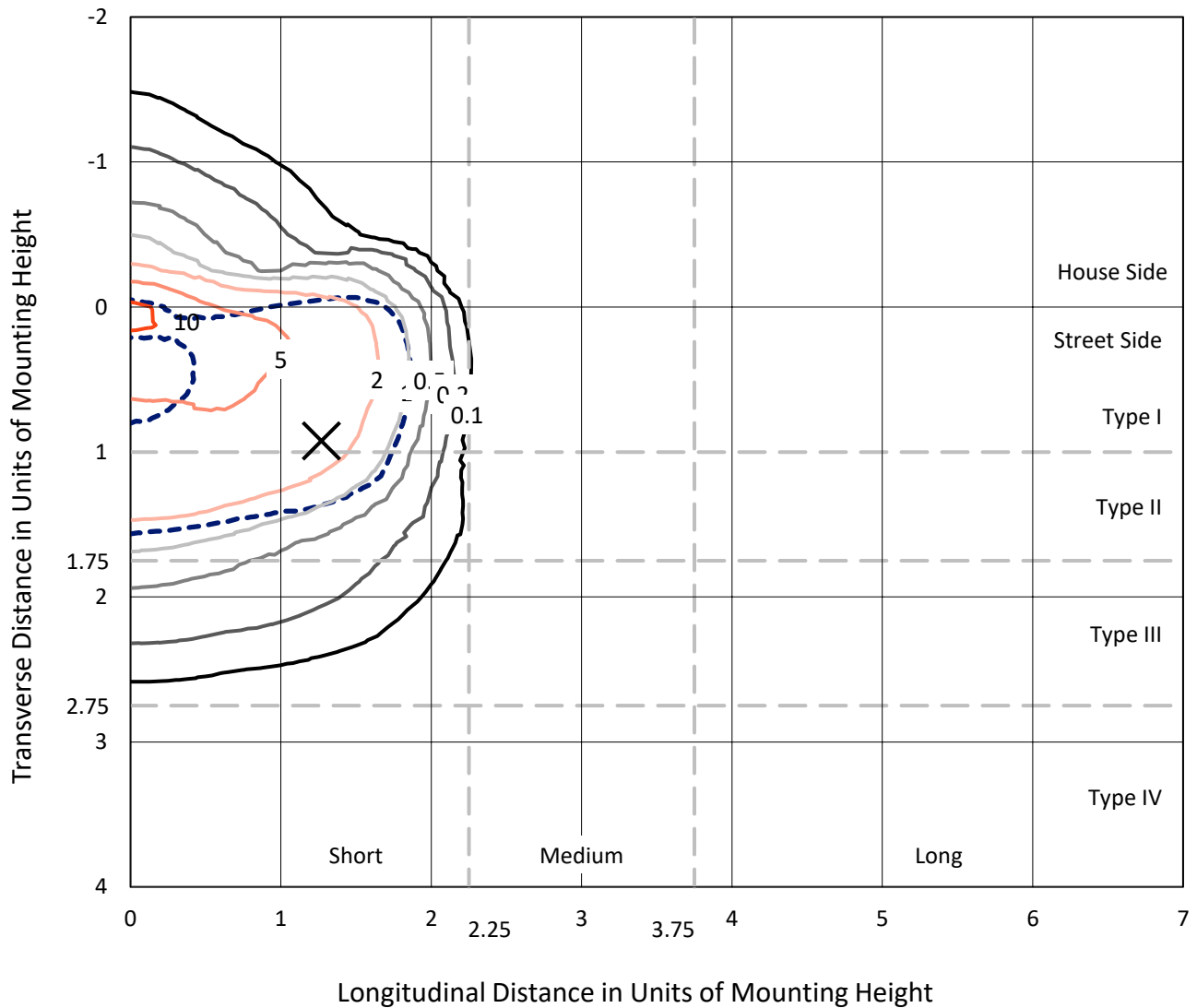
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

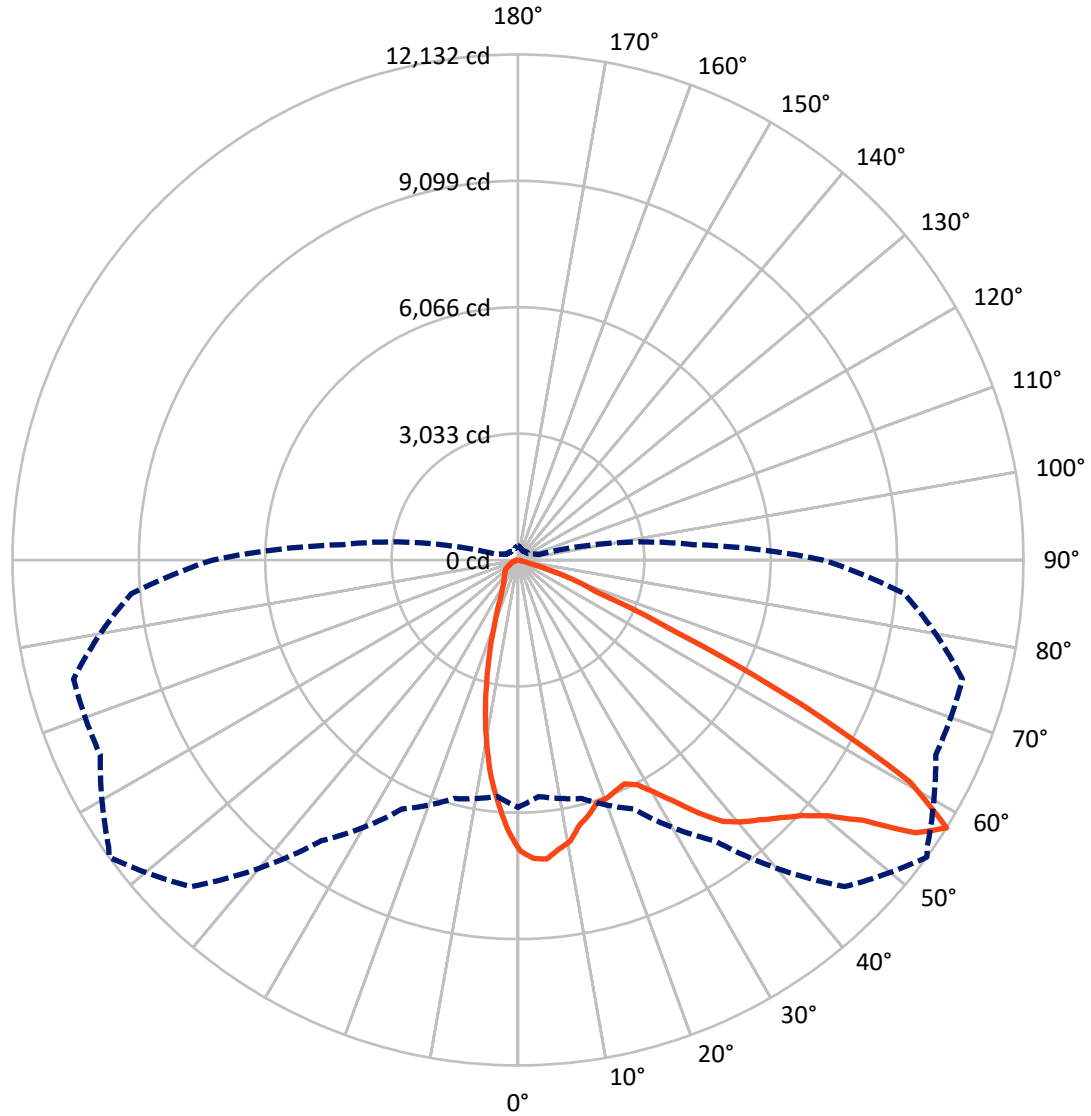
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2241.1	0.0	2241.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	13617.8	0.0	13617.8
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	15859.0	0.0	15859.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	584.6	3.7
10°-20°	1248.1	7.9
20°-30°	1654.0	10.4
30°-40°	2403.8	15.2
40°-50°	3564.5	22.5
50°-60°	4457.2	28.1
60°-70°	1758.2	11.1
70°-80°	175.0	1.1
80°-90°	13.6	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°	15859.0	100.0
0°-180°	15859.0	100.0

**Coefficient of Utilization**



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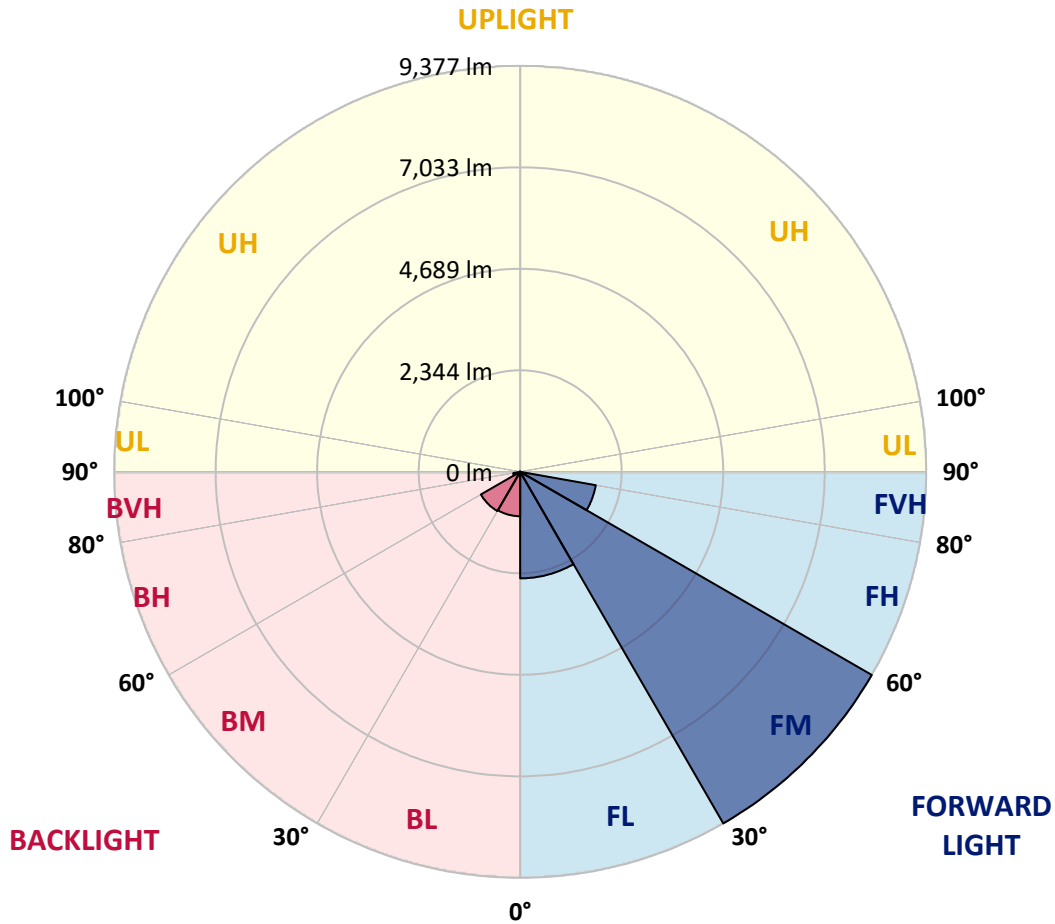
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2461.8	15.5			
FM (30°-60°)	9377.4	59.1			
FH (60°-80°)	1772.5	11.2			G1/1800
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	1025.0	6.5	B3/2500		
BM (30°-60°)	1048.0	6.6	B2/2500		
BH (60°-80°)	160.7	1.0	B1/500		G1/500
BVH (80°-90°)	7.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6986.1	6986.1	6986.1	6986.1	6986.1	6986.1	6986.1	6986.1	6986.1	6986.1	6986.1
2.5°	7393.1	7316.4	7322.3	7295.7	7260.4	7286.9	7171.9	7198.4	7195.5	7039.2	6936.0
5°	7207.3	7289.8	7204.3	7275.1	7207.3	7281.0	7210.2	7157.1	7071.6	6956.6	6764.9
7.5°	6891.7	6812.1	6835.7	6924.2	6938.9	7104.1	7015.6	7083.4	7048.0	6821.0	6558.5
10°	6257.7	6240.0	6358.0	6475.9	6620.4	6797.4	6865.2	6826.9	6800.3	6714.8	6363.9
12.5°	5771.1	5821.3	5818.3	6012.9	6257.7	6358.0	6534.9	6529.0	6676.5	6517.2	6181.0
15°	5308.1	5334.7	5458.5	5579.4	5850.8	6136.8	6355.0	6384.5	6561.5	6449.4	6039.5
17.5°	5025.0	4986.7	5084.0	5228.5	5505.7	5880.2	6122.1	6192.8	6434.6	6411.1	5877.3
20°	4744.9	4744.9	4824.5	4995.6	5249.2	5670.9	6101.4	6080.8	6434.6	6366.8	5703.3
22.5°	4650.5	4697.7	4718.3	4848.1	5148.9	5511.6	6012.9	6051.3	6484.8	6346.2	5626.6
25°	4780.3	4718.3	4724.2	4827.5	5110.6	5434.9	5948.1	6033.6	6576.2	6449.4	5564.7
27.5°	4800.9	4862.8	4880.5	4951.3	5140.0	5458.5	6110.3	6284.2	6803.3	6691.2	5582.4
30°	4980.8	5042.7	5039.8	5160.7	5290.4	5650.2	6473.0	6508.4	7272.2	6994.9	5691.5
32.5°	5199.0	5263.9	5284.5	5426.1	5529.3	6001.1	6915.3	7006.7	7723.3	7472.7	5977.6
35°	5470.3	5446.7	5541.1	5682.7	5903.8	6514.3	7455.0	7608.3	8209.9	8092.0	6272.5
37.5°	5809.5	5780.0	5871.4	6101.4	6402.2	7121.8	7953.4	8053.6	8563.8	8667.0	6818.0
40°	6048.3	6060.1	6337.3	6647.0	6965.5	7699.8	8268.9	8366.2	8811.5	9203.7	7230.9
42.5°	6446.4	6520.2	6853.4	7230.9	7564.1	8133.3	8525.5	8619.8	8926.5	9634.3	7788.2
45°	7024.4	6992.0	7360.6	7782.3	8150.9	8584.4	8829.2	8796.8	8994.3	10061.9	8139.1
47.5°	7767.6	7773.5	8018.2	8378.0	8761.4	8976.7	9168.3	9053.3	9135.9	10513.1	8608.0
50°	8274.8	8319.0	8516.6	8885.2	9076.9	9407.2	9652.0	9581.2	9554.7	10784.4	8902.9
52.5°	8404.6	8537.3	8643.4	9103.5	9551.7	10073.7	10386.3	10536.7	10064.8	10875.8	9277.5
55°	7425.5	7543.5	7918.0	8549.1	9731.6	11129.4	11560.0	11562.9	10731.3	11282.7	9539.9
57.5°	5936.3	5697.4	5927.4	6596.8	8227.6	11085.2	12132.1	11993.4	11064.5	11043.9	9312.8
60°	4105.0	4046.0	4060.7	4326.1	5694.5	8817.4	10810.9	10990.8	10188.7	9572.3	7372.4
62.5°	3252.7	3202.6	3137.7	3108.2	3535.8	5493.9	7626.0	7879.6	7124.7	6207.6	4370.4
65°	2547.9	2518.4	2527.3	2645.2	2642.3	3117.1	4169.8	4066.6	3255.7	2406.4	1374.2
67.5°	1719.2	1763.5	1798.9	2155.7	2338.5	2170.4	2014.1	1955.2	1058.7	445.3	303.7
70°	967.3	973.2	1011.5	1347.7	1775.3	1683.9	1389.0	1389.0	527.9	162.2	174.0
72.5°	527.9	510.2	474.8	580.9	790.3	802.1	619.3	539.7	156.3	106.2	97.3
75°	256.6	253.6	218.2	179.9	171.0	141.6	109.1	100.3	70.8	67.8	59.0
77.5°	53.1	50.1	26.5	26.5	29.5	32.4	41.3	41.3	50.1	50.1	41.3
80°	0.0	0.0	2.9	11.8	20.6	29.5	35.4	35.4	41.3	41.3	32.4
82.5°	0.0	0.0	2.9	8.8	17.7	26.5	32.4	35.4	41.3	44.2	35.4
85°	0.0	0.0	0.0	5.9	14.7	20.6	17.7	17.7	14.7	11.8	5.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	6986.1	6986.1	6986.1	6986.1	6986.1	6986.1	6986.1	6986.1	6986.1	6986.1	6986.1
2.5°	6882.9	6877.0	6741.3	6664.7	6526.1	6405.2	6307.8	6237.1	6237.1	6192.8	6151.5
5°	6688.3	6638.1	6349.1	6163.3	5900.9	5706.3	5573.5	5470.3	5308.1	5352.4	5178.4
7.5°	6446.4	6319.6	5936.3	5653.2	5290.4	5013.2	4730.1	4479.5	4237.7	4128.6	4187.5
10°	6186.9	5965.8	5449.7	5001.4	4550.3	4043.0	3712.7	3311.7	3064.0	3049.2	2984.4
12.5°	5912.7	5662.0	5033.9	4414.6	3821.9	3211.4	2707.2	2332.6	2164.5	1978.8	2014.1
15°	5706.3	5334.7	4570.9	3824.8	3037.4	2421.1	1913.9	1624.9	1465.6	1421.4	1406.7
17.5°	5482.1	5084.0	4099.1	3196.7	2382.8	1742.8	1377.2	1238.6	1176.6	1176.6	1167.8
20°	5249.2	4800.9	3630.2	2612.8	1787.1	1300.5	1102.9	1058.7	1055.7	1052.8	1052.8
22.5°	5095.8	4476.5	3205.5	2076.1	1347.7	1041.0	958.4	940.7	952.5	987.9	987.9
25°	4933.6	4163.9	2736.6	1601.3	1043.9	893.5	846.4	858.1	887.6	920.1	908.3
27.5°	4768.5	3960.5	2294.3	1256.3	855.2	781.5	763.8	790.3	822.8	852.3	843.4
30°	4730.1	3742.2	1875.5	952.5	734.3	681.2	693.0	716.6	749.0	760.8	772.6
32.5°	4789.1	3571.2	1536.4	781.5	639.9	625.2	625.2	637.0	657.6	684.2	675.3
35°	4957.2	3473.9	1215.0	678.3	586.8	572.1	569.2	580.9	592.7	601.6	592.7
37.5°	5213.8	3397.2	993.8	601.6	551.5	527.9	522.0	519.0	530.8	533.8	539.7
40°	5541.1	3438.5	843.4	554.4	516.1	489.5	471.8	471.8	471.8	480.7	483.6
42.5°	5895.0	3494.5	728.4	527.9	483.6	451.2	433.5	427.6	433.5	445.3	442.3
45°	6266.6	3603.6	654.7	486.6	454.1	412.9	389.3	383.4	398.1	421.7	418.8
47.5°	6614.5	3759.9	598.6	460.0	424.7	386.3	356.8	350.9	377.5	409.9	412.9
50°	6962.5	4031.2	578.0	439.4	404.0	359.8	333.2	327.3	356.8	398.1	407.0
52.5°	7363.6	4323.2	563.3	412.9	380.4	339.1	309.6	303.7	336.2	389.3	392.2
55°	7626.0	4570.9	551.5	365.7	336.2	306.7	283.1	280.2	315.5	362.7	374.5
57.5°	7319.3	4225.9	510.2	318.5	286.0	271.3	250.7	250.7	280.2	324.4	333.2
60°	5550.0	2780.9	362.7	256.6	241.8	233.0	224.1	224.1	247.7	280.2	283.1
62.5°	3249.8	1498.1	233.0	206.4	206.4	197.6	182.8	182.8	206.4	224.1	227.1
65°	964.3	480.7	188.7	176.9	174.0	159.2	144.5	141.6	159.2	168.1	165.1
67.5°	277.2	221.2	156.3	147.4	144.5	120.9	112.1	109.1	112.1	106.2	103.2
70°	165.1	150.4	120.9	123.9	109.1	88.5	79.6	76.7	70.8	61.9	56.0
72.5°	91.4	91.4	88.5	94.4	76.7	59.0	50.1	41.3	32.4	26.5	23.6
75°	56.0	59.0	61.9	64.9	50.1	38.3	32.4	20.6	11.8	5.9	5.9
77.5°	38.3	41.3	44.2	47.2	41.3	35.4	26.5	14.7	2.9	0.0	0.0
80°	29.5	32.4	38.3	41.3	44.2	47.2	35.4	14.7	2.9	0.0	0.0
82.5°	32.4	35.4	44.2	41.3	41.3	41.3	32.4	14.7	2.9	0.0	0.0
85°	5.9	8.8	14.7	14.7	20.6	26.5	20.6	5.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)