

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: P529143

Luminaire Tested: **GALN-SA4B-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529143  
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-SA4B-735-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 800mA 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: 12263 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

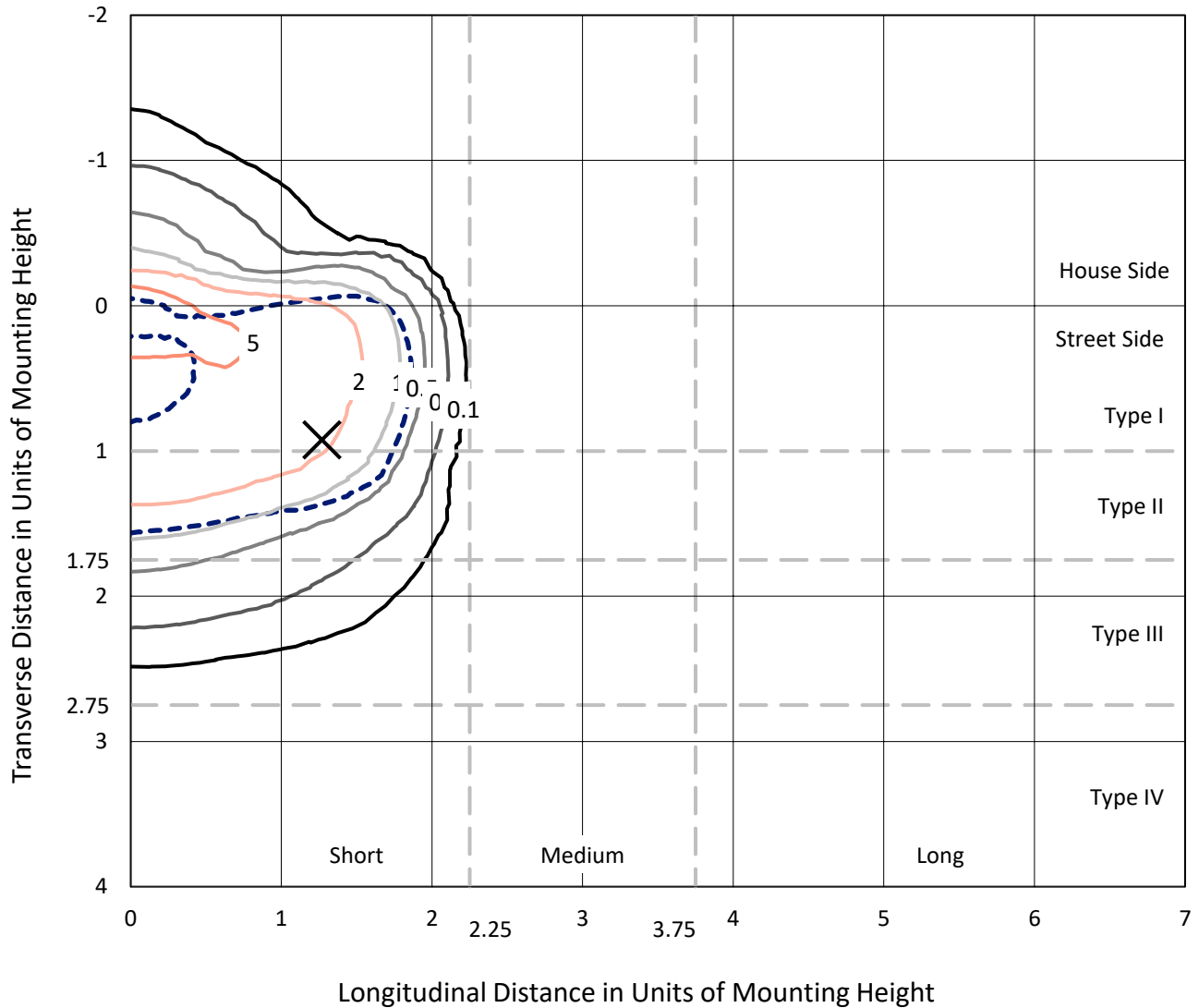
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

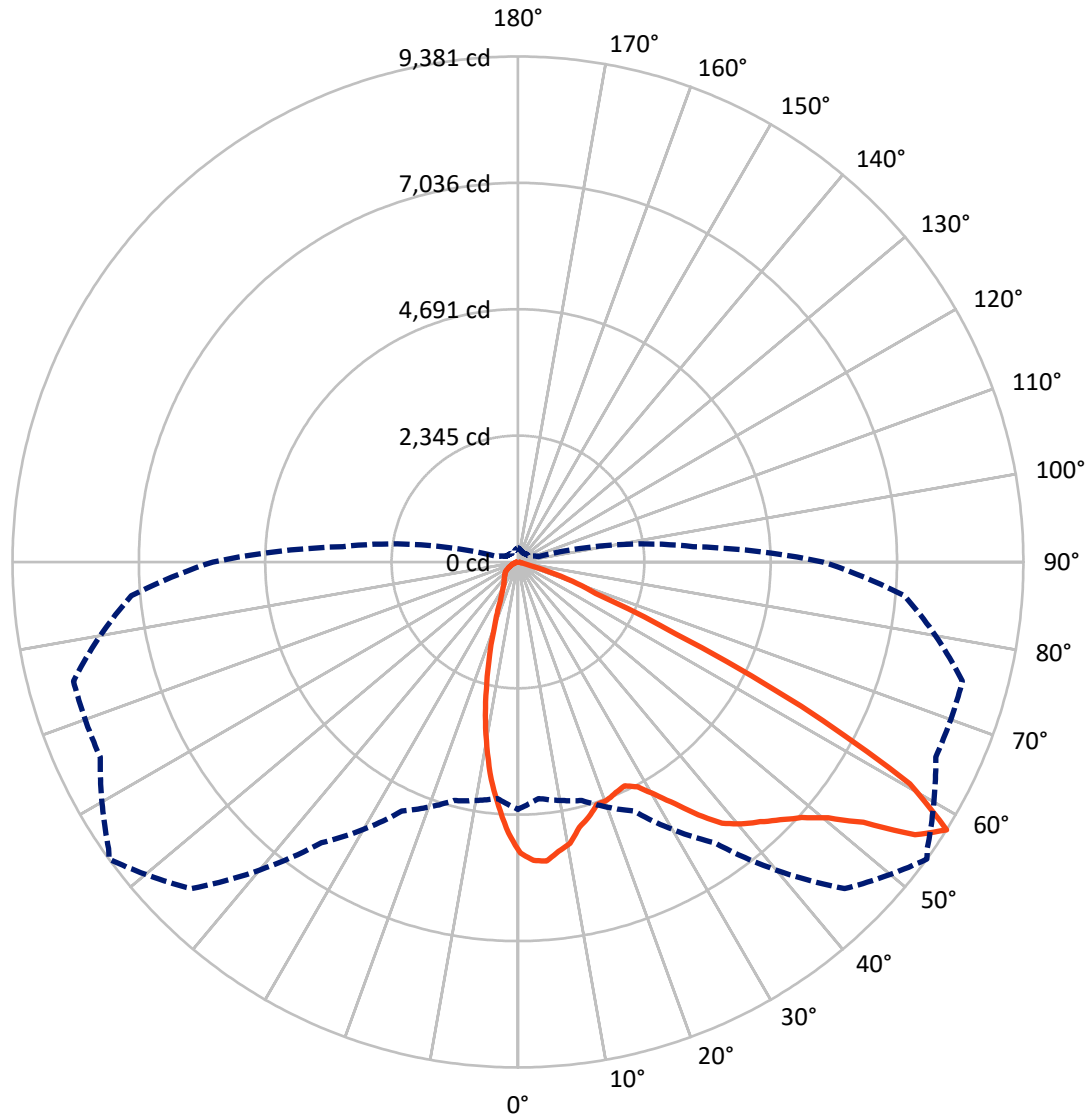
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	1733.0	0.0	1733.0
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	10530.0	0.0	10530.0
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	12263.0	0.0	12263.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.1	3.7
10°-20°	965.1	7.9
20°-30°	1279.0	10.4
30°-40°	1858.7	15.2
40°-50°	2756.2	22.5
50°-60°	3446.5	28.1
60°-70°	1359.5	11.1
70°-80°	135.4	1.1
80°-90°	10.5	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°	12263.0	100.0
0°-180°	12263.0	100.0

**Coefficient of Utilization**

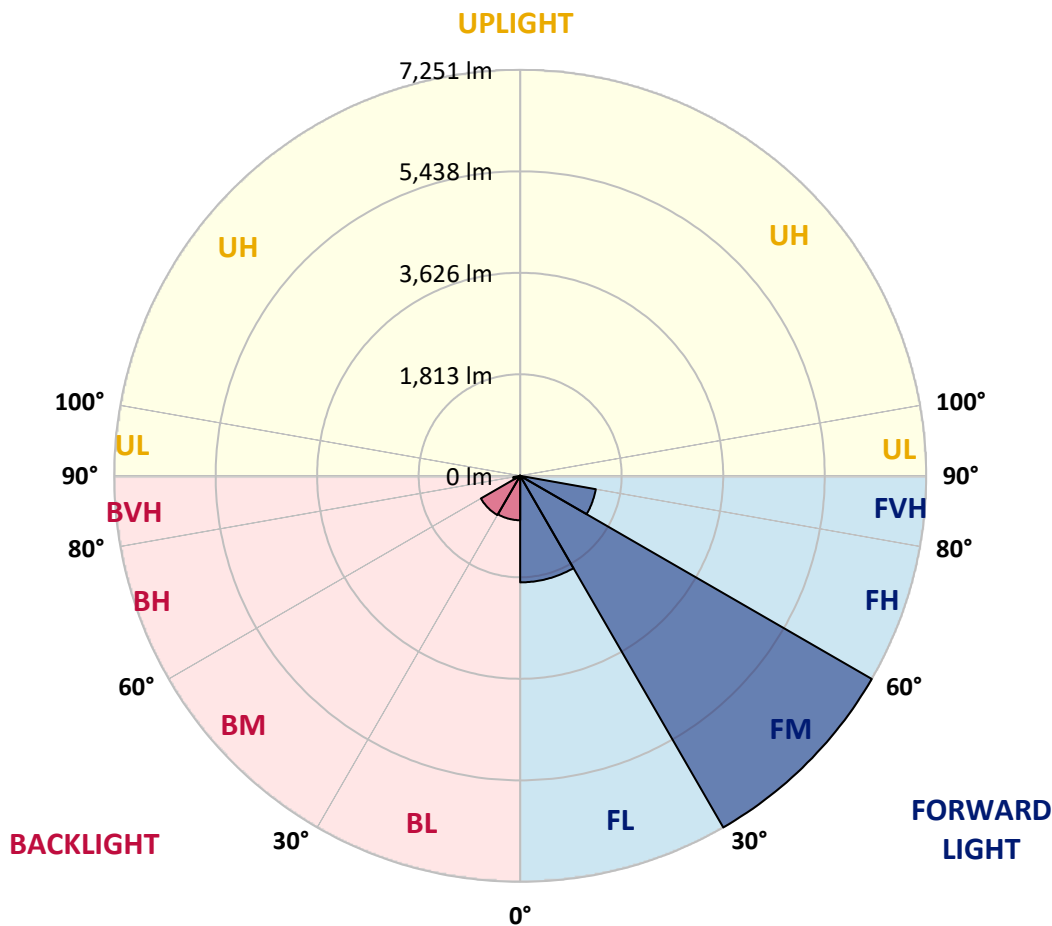


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1903.6	15.5			
FM (30°-60°)	7251.1	59.1			
FH (60°-80°)	1370.6	11.2			G1/1800
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	792.6	6.5	B2/1000		
BM (30°-60°)	810.4	6.6	B1/1000		
BH (60°-80°)	124.3	1.0	B1/500		G1/500
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0
2.5°	5716.7	5657.4	5662.0	5641.4	5614.1	5634.6	5545.7	5566.2	5563.9	5443.1	5363.3
5°	5573.0	5636.9	5570.8	5625.5	5573.0	5630.0	5575.3	5534.3	5468.1	5379.2	5231.0
7.5°	5329.0	5267.5	5285.7	5354.1	5365.5	5493.2	5424.8	5477.3	5449.9	5274.3	5071.4
10°	4838.8	4825.1	4916.3	5007.5	5119.3	5256.1	5308.5	5278.9	5258.4	5192.2	4920.9
12.5°	4462.5	4501.3	4499.0	4649.5	4838.8	4916.3	5053.1	5048.6	5162.6	5039.4	4779.5
15°	4104.5	4125.1	4220.8	4314.3	4524.1	4745.3	4914.0	4936.8	5073.7	4987.0	4670.0
17.5°	3885.6	3856.0	3931.2	4043.0	4257.3	4546.9	4733.9	4788.6	4975.6	4957.4	4544.6
20°	3669.0	3669.0	3730.6	3862.8	4058.9	4385.0	4717.9	4702.0	4975.6	4923.2	4410.1
22.5°	3596.0	3632.5	3648.5	3748.8	3981.4	4261.9	4649.5	4679.2	5014.4	4907.2	4350.8
25°	3696.4	3648.5	3653.0	3732.8	3951.7	4202.6	4599.4	4665.5	5085.1	4987.0	4302.9
27.5°	3712.3	3760.2	3773.9	3828.6	3974.6	4220.8	4724.8	4859.3	5260.6	5174.0	4316.6
30°	3851.4	3899.3	3897.0	3990.5	4090.8	4369.0	5005.2	5032.6	5623.2	5408.9	4401.0
32.5°	4020.2	4070.3	4086.3	4195.7	4275.6	4640.4	5347.3	5418.0	5972.1	5778.3	4622.2
35°	4229.9	4211.7	4284.7	4394.1	4565.1	5037.2	5764.6	5883.2	6348.3	6257.1	4850.2
37.5°	4492.2	4469.4	4540.1	4717.9	4950.5	5506.9	6150.0	6227.5	6622.0	6701.8	5272.0
40°	4676.9	4686.0	4900.4	5139.8	5386.1	5953.8	6393.9	6469.2	6813.5	7116.8	5591.3
42.5°	4984.7	5041.7	5299.4	5591.3	5849.0	6289.1	6592.3	6665.3	6902.5	7449.7	6022.3
45°	5431.7	5406.6	5691.6	6017.7	6302.7	6637.9	6827.2	6802.1	6954.9	7780.4	6293.6
47.5°	6006.3	6010.9	6200.1	6478.3	6774.8	6941.2	7089.4	7000.5	7064.4	8129.2	6656.2
50°	6398.5	6432.7	6585.5	6870.5	7018.7	7274.1	7463.4	7408.7	7388.2	8339.0	6884.2
52.5°	6498.8	6601.5	6683.5	7039.3	7385.9	7789.5	8031.2	8147.5	7782.6	8409.7	7173.8
55°	5741.8	5833.0	6122.6	6610.6	7525.0	8605.8	8938.8	8941.0	8298.0	8724.4	7376.8
57.5°	4590.2	4405.5	4583.4	5101.0	6362.0	8571.6	9381.1	9274.0	8555.7	8539.7	7201.2
60°	3174.2	3128.6	3140.0	3345.2	4403.2	6818.1	8359.6	8498.7	7878.4	7401.8	5700.7
62.5°	2515.2	2476.4	2426.2	2403.4	2734.1	4248.2	5896.8	6092.9	5509.2	4800.0	3379.4
65°	1970.2	1947.4	1954.2	2045.4	2043.1	2410.3	3224.3	3144.5	2517.4	1860.7	1062.6
67.5°	1329.4	1363.6	1391.0	1666.9	1808.3	1678.3	1557.4	1511.8	818.6	344.3	234.9
70°	747.9	752.5	782.1	1042.1	1372.7	1302.0	1074.0	1074.0	408.2	125.4	134.5
72.5°	408.2	394.5	367.1	449.2	611.1	620.2	478.9	417.3	120.9	82.1	75.2
75°	198.4	196.1	168.7	139.1	132.3	109.5	84.4	77.5	54.7	52.4	45.6
77.5°	41.0	38.8	20.5	20.5	22.8	25.1	31.9	31.9	38.8	38.8	31.9
80°	0.0	0.0	2.3	9.1	16.0	22.8	27.4	27.4	31.9	31.9	25.1
82.5°	0.0	0.0	2.3	6.8	13.7	20.5	25.1	27.4	31.9	34.2	27.4
85°	0.0	0.0	0.0	4.6	11.4	16.0	13.7	13.7	11.4	9.1	4.6
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°	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0
2.5°	5322.2	5317.6	5212.8	5153.5	5046.3	4952.8	4877.5	4822.8	4822.8	4788.6	4756.7
5°	5171.7	5132.9	4909.5	4765.8	4562.9	4412.4	4309.8	4229.9	4104.5	4138.7	4004.2
7.5°	4984.7	4886.7	4590.2	4371.3	4090.8	3876.5	3657.6	3463.8	3276.8	3192.4	3238.0
10°	4784.1	4613.0	4214.0	3867.4	3518.5	3126.3	2870.9	2560.8	2369.2	2357.8	2307.7
12.5°	4572.0	4378.2	3892.5	3413.6	2955.3	2483.2	2093.3	1803.7	1673.7	1530.1	1557.4
15°	4412.4	4125.1	3534.5	2957.5	2348.7	1872.1	1479.9	1256.4	1133.3	1099.1	1087.7
17.5°	4239.1	3931.2	3169.6	2471.8	1842.5	1347.7	1064.9	957.7	909.8	909.8	903.0
20°	4058.9	3712.3	2807.0	2020.3	1381.9	1005.6	852.8	818.6	816.3	814.1	814.1
22.5°	3940.3	3461.5	2478.7	1605.3	1042.1	804.9	741.1	727.4	736.5	763.9	763.9
25°	3814.9	3219.8	2116.1	1238.2	807.2	690.9	654.4	663.6	686.4	711.5	702.3
27.5°	3687.2	3062.4	1774.1	971.4	661.3	604.3	590.6	611.1	636.2	659.0	652.2
30°	3657.6	2893.7	1450.3	736.5	567.8	526.7	535.9	554.1	579.2	588.3	597.4
32.5°	3703.2	2761.4	1188.0	604.3	494.8	483.4	483.4	492.5	508.5	529.0	522.2
35°	3833.2	2686.2	939.5	524.5	453.8	442.4	440.1	449.2	458.3	465.2	458.3
37.5°	4031.6	2626.9	768.5	465.2	426.4	408.2	403.6	401.3	410.5	412.7	417.3
40°	4284.7	2658.8	652.2	428.7	399.1	378.5	364.8	364.8	364.8	371.7	374.0
42.5°	4558.3	2702.1	563.2	408.2	374.0	348.9	335.2	330.6	335.2	344.3	342.0
45°	4845.6	2786.5	506.2	376.2	351.2	319.2	301.0	296.4	307.8	326.1	323.8
47.5°	5114.7	2907.4	462.9	355.7	328.4	298.7	275.9	271.4	291.9	317.0	319.2
50°	5383.8	3117.2	446.9	339.8	312.4	278.2	257.7	253.1	275.9	307.8	314.7
52.5°	5693.9	3342.9	435.5	319.2	294.2	262.2	239.4	234.9	260.0	301.0	303.3
55°	5896.8	3534.5	426.4	282.8	260.0	237.2	218.9	216.6	244.0	280.5	289.6
57.5°	5659.7	3267.7	394.5	246.3	221.2	209.8	193.8	193.8	216.6	250.8	257.7
60°	4291.5	2150.3	280.5	198.4	187.0	180.1	173.3	173.3	191.5	216.6	218.9
62.5°	2512.9	1158.4	180.1	159.6	159.6	152.8	141.4	141.4	159.6	173.3	175.6
65°	745.7	371.7	145.9	136.8	134.5	123.1	111.7	109.5	123.1	130.0	127.7
67.5°	214.3	171.0	120.9	114.0	111.7	93.5	86.7	84.4	86.7	82.1	79.8
70°	127.7	116.3	93.5	95.8	84.4	68.4	61.6	59.3	54.7	47.9	43.3
72.5°	70.7	70.7	68.4	73.0	59.3	45.6	38.8	31.9	25.1	20.5	18.2
75°	43.3	45.6	47.9	50.2	38.8	29.6	25.1	16.0	9.1	4.6	4.6
77.5°	29.6	31.9	34.2	36.5	31.9	27.4	20.5	11.4	2.3	0.0	0.0
80°	22.8	25.1	29.6	31.9	34.2	36.5	27.4	11.4	2.3	0.0	0.0
82.5°	25.1	27.4	34.2	31.9	31.9	31.9	25.1	11.4	2.3	0.0	0.0
85°	4.6	6.8	11.4	11.4	16.0	20.5	16.0	4.6	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)