

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: P527967

Luminaire Tested: **GALN-SA3A-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527967  
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-SA3A-735-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA 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: 9487 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

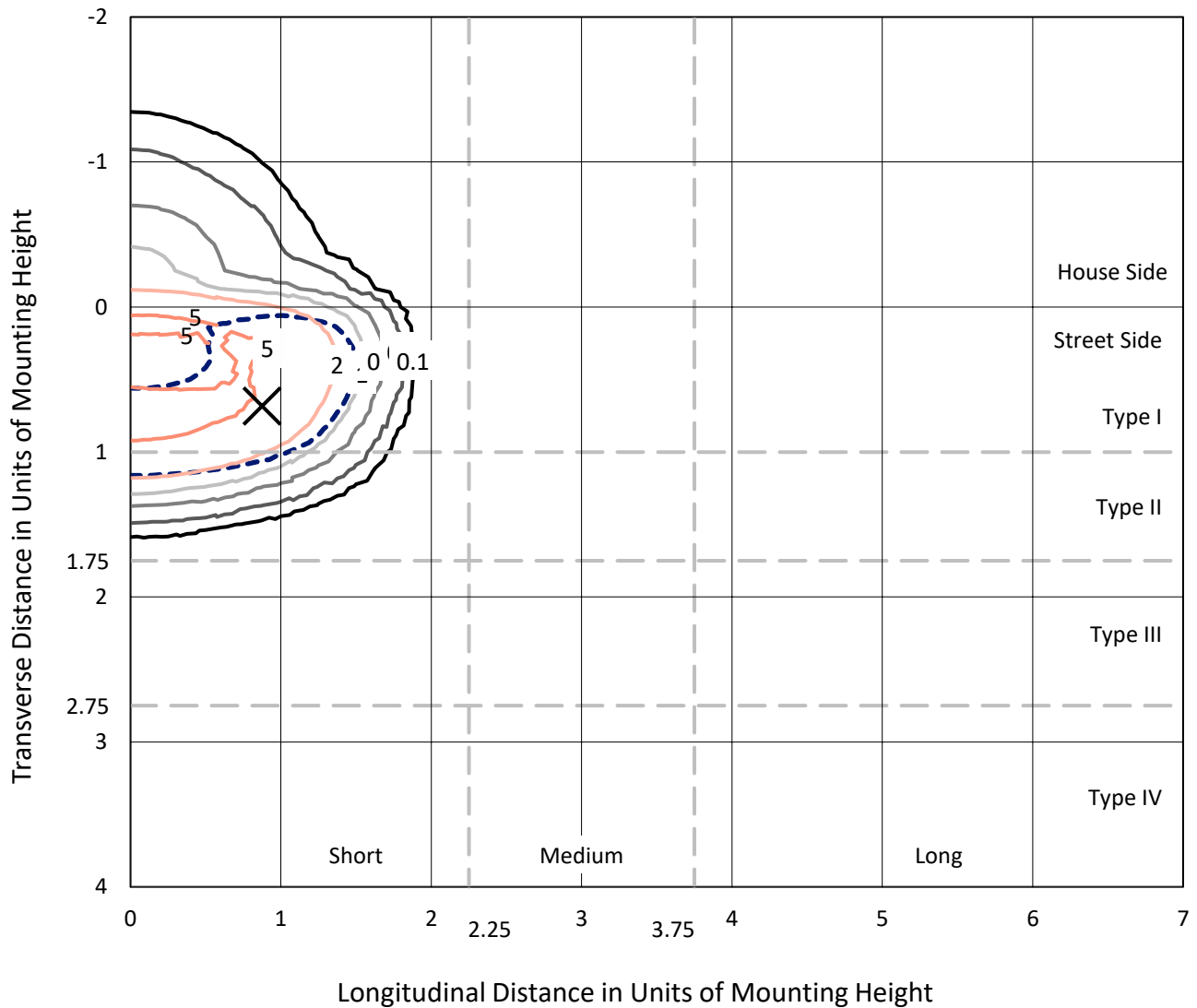
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

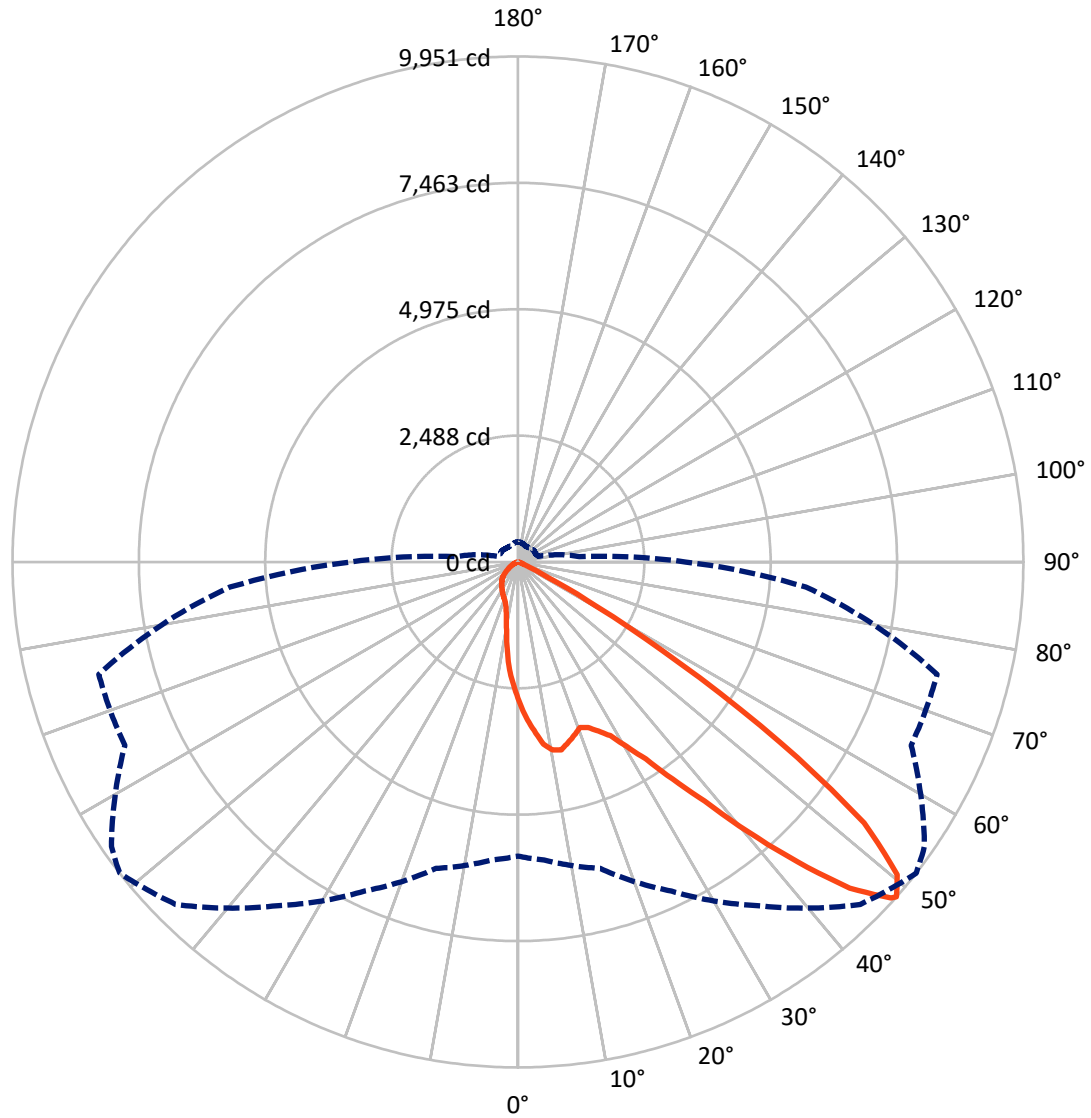
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - N/A

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### 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
<b>House Side</b>	Lumens	1155.1	0.0	1155.1
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	8331.9	0.0	8331.9
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	9487.0	0.0	9487.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.8	2.6
10°-20°	655.3	6.9
20°-30°	1118.9	11.8
30°-40°	2060.5	21.7
40°-50°	3199.9	33.7
50°-60°	1925.8	20.3
60°-70°	222.7	2.3
70°-80°	43.1	0.5
80°-90°	10.0	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°	9487.0	100.0
0°-180°	9487.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P527967

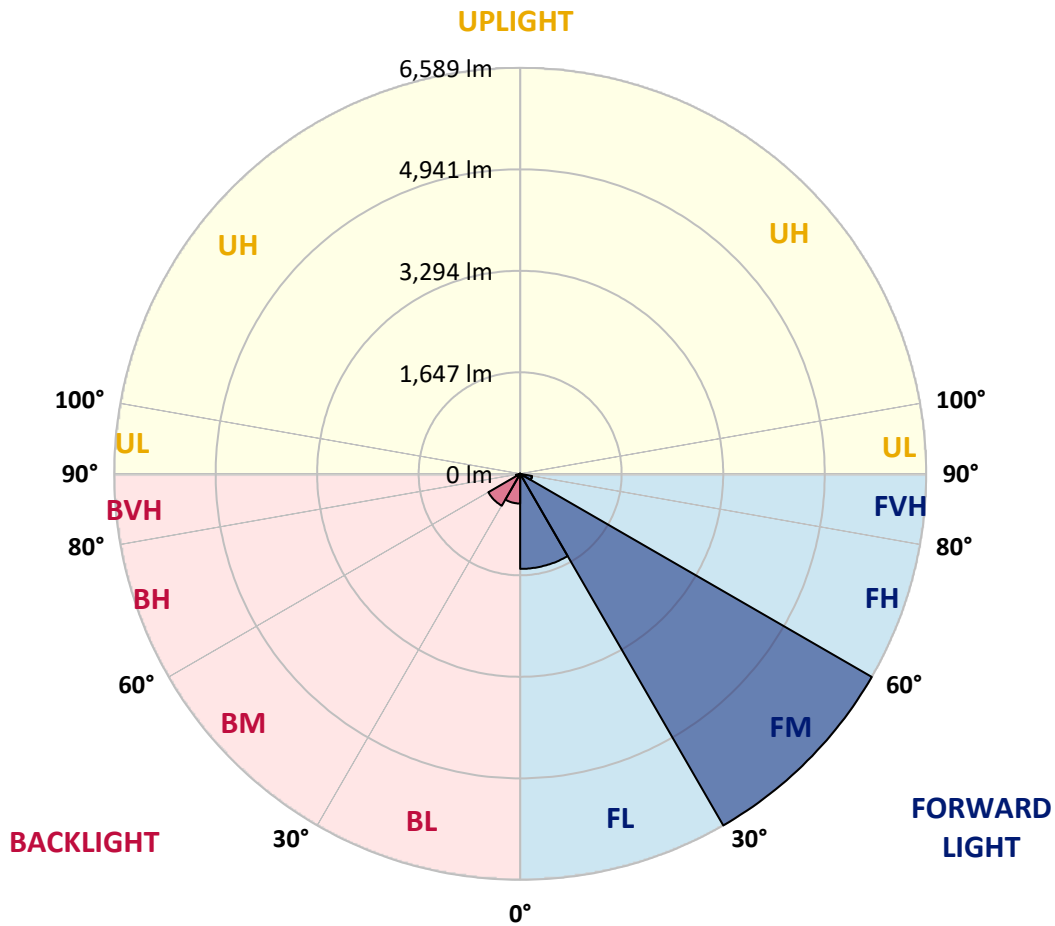
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1542.5	16.3			
FM (30°-60°)	6588.5	69.4			
FH (60°-80°)	196.1	2.1			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	482.5	5.1	B1/500		
BM (30°-60°)	597.6	6.3	B1/1000		
BH (60°-80°)	69.7	0.7	B0/110		G0/110
BVH (80°-90°)	5.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type II Short





REPORT NUMBER: P527967

CATALOG NUMBER: GALN-SA3A-735-U-AFL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2739.7	2739.7	2739.7	2739.7	2739.7	2739.7	2739.7	2739.7	2739.7	2739.7	2739.7
2.5°	3320.5	3244.5	3251.4	3201.6	3172.6	3125.5	3061.9	3049.5	2980.3	2886.3	2790.9
5°	3619.3	3601.3	3624.8	3552.9	3555.6	3478.2	3328.8	3331.6	3172.6	3019.1	2871.1
7.5°	3638.6	3597.1	3620.6	3684.3	3721.6	3707.8	3623.4	3550.1	3399.4	3173.9	2958.2
10°	3258.3	3337.1	3362.0	3467.1	3616.5	3774.2	3764.5	3768.6	3642.8	3348.2	3032.9
12.5°	3030.1	2977.6	3061.9	3125.5	3351.0	3656.6	3796.3	3826.7	3836.4	3516.9	3107.6
15°	2926.4	2926.4	2940.2	2958.2	3121.4	3403.5	3688.4	3776.9	3985.8	3738.2	3225.1
17.5°	2991.4	2988.6	3008.0	2970.6	3031.5	3248.6	3588.8	3689.8	4153.1	3955.3	3317.8
20°	3189.2	3198.8	3186.4	3078.5	3082.7	3245.9	3478.2	3637.2	4266.5	4143.4	3440.9
22.5°	3464.4	3469.9	3399.4	3281.8	3247.2	3327.5	3541.8	3663.5	4357.8	4368.8	3478.2
25°	3782.5	3760.3	3746.5	3580.5	3475.4	3544.6	3685.6	3756.2	4414.5	4562.5	3584.7
27.5°	4223.6	4179.4	4095.0	3947.0	3869.6	3771.4	3872.4	3988.5	4576.3	4833.5	3700.9
30°	4875.0	4836.3	4671.7	4480.9	4277.6	4180.8	4212.6	4276.2	4868.1	5147.5	3854.4
32.5°	5855.5	5774.0	5536.1	5172.4	4895.8	4628.8	4620.5	4688.3	5129.5	5581.7	4036.9
35°	6935.7	6910.8	6560.9	6186.1	5650.9	5238.7	5245.7	5281.6	5630.1	6151.5	4276.2
37.5°	7653.4	7790.3	7567.7	7165.2	6715.8	6126.6	5977.2	5989.7	6317.5	6826.4	4707.7
40°	8208.0	8091.8	8118.1	8024.1	7717.0	7316.0	6985.4	6920.4	7112.7	7573.2	5136.4
42.5°	7966.0	7971.5	8133.3	8356.0	8432.0	8403.0	8065.6	7942.5	7793.1	8184.5	5544.4
45°	7282.8	7425.2	7635.4	8224.6	8741.8	9227.3	9160.9	8956.2	8263.3	8668.5	5779.5
47.5°	6193.0	6187.5	6531.8	7298.0	8447.3	9584.1	9885.6	9741.7	8596.6	8614.6	5731.1
48°	5790.5	5890.1	6245.5	7147.3	8260.6	9531.5	9950.6	9769.4	8539.9	8542.7	5689.6
50°	4280.3	4262.4	4704.9	5811.3	7378.2	8956.2	9676.7	9817.8	8538.5	8179.0	5399.2
52.5°	2261.2	2338.6	2660.9	3653.8	5216.6	7329.8	8535.8	8755.7	8237.0	7584.3	4981.5
55°	961.2	868.5	1116.1	1649.9	2934.7	4897.1	6262.1	6751.7	6964.7	6711.6	4357.8
57.5°	343.0	374.8	431.5	621.0	1233.6	2680.2	3734.1	4114.4	4825.2	4924.8	2969.3
60°	219.9	224.0	242.0	284.9	463.3	1033.1	1771.6	2074.5	2396.7	2474.2	1385.7
62.5°	170.1	171.5	179.8	186.7	219.9	401.1	665.2	788.3	818.7	703.9	363.7
65°	142.4	143.8	146.6	146.6	156.3	188.1	232.3	255.9	248.9	246.2	206.1
67.5°	109.3	112.0	117.6	117.6	123.1	114.8	128.6	136.9	154.9	188.1	175.6
70°	85.7	87.1	91.3	94.0	94.0	83.0	92.7	101.0	113.4	139.7	138.3
72.5°	66.4	69.1	71.9	71.9	67.8	56.7	66.4	73.3	81.6	96.8	94.0
75°	51.2	51.2	52.6	42.9	33.2	29.0	40.1	48.4	60.9	63.6	52.6
77.5°	13.8	15.2	13.8	12.4	13.8	20.7	26.3	30.4	38.7	38.7	34.6
80°	0.0	1.4	4.1	8.3	13.8	19.4	23.5	26.3	30.4	33.2	31.8
82.5°	0.0	1.4	4.1	8.3	12.4	15.2	20.7	22.1	24.9	29.0	29.0
85°	0.0	1.4	2.8	5.5	8.3	9.7	9.7	8.3	8.3	6.9	5.5
87.5°	0.0	0.0	1.4	2.8	2.8	4.1	4.1	4.1	4.1	4.1	4.1
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°	2739.7	2739.7	2739.7	2739.7	2739.7	2739.7	2739.7	2739.7	2739.7	2739.7	2739.7
2.5°	2753.5	2710.6	2645.6	2543.3	2445.1	2381.5	2320.6	2252.9	2215.5	2212.8	2192.0
5°	2786.7	2689.9	2535.0	2359.4	2171.3	2009.5	1846.3	1739.8	1644.4	1591.8	1582.1
7.5°	2804.7	2678.8	2428.5	2133.9	1813.1	1548.9	1366.4	1232.2	1179.7	1141.0	1139.6
10°	2842.0	2659.5	2269.5	1835.2	1438.3	1171.4	1045.5	984.7	955.6	944.6	928.0
12.5°	2869.7	2623.5	2106.3	1528.2	1136.8	970.9	915.5	901.7	903.1	908.6	901.7
15°	2908.4	2591.7	1886.4	1254.4	954.3	874.0	874.0	876.8	896.2	898.9	897.6
17.5°	2905.6	2529.5	1659.6	1033.1	843.6	832.6	836.7	863.0	875.4	879.6	869.9
20°	2938.8	2471.4	1425.9	882.3	781.4	798.0	825.6	832.6	847.8	850.5	839.5
22.5°	2929.2	2326.2	1208.7	763.4	734.4	766.2	793.8	802.1	798.0	789.7	788.3
25°	2911.2	2201.7	1009.6	684.6	699.8	734.4	760.6	745.4	737.1	738.5	739.9
27.5°	2879.4	2044.0	845.0	629.3	652.8	703.9	702.6	697.0	705.3	698.4	705.3
30°	2873.8	1886.4	709.5	579.5	618.2	655.5	658.3	668.0	677.7	665.2	677.7
32.5°	2882.1	1713.5	612.7	549.0	597.4	598.8	629.3	638.9	632.0	604.4	607.1
35°	2945.8	1580.7	542.1	532.4	564.3	565.6	594.7	582.2	551.8	535.2	544.9
37.5°	3079.9	1470.1	508.9	517.2	520.0	538.0	539.4	514.5	517.2	515.9	521.4
40°	3251.4	1385.7	485.4	503.4	500.6	513.1	463.3	477.1	489.6	493.7	496.5
42.5°	3368.9	1324.9	470.2	481.3	475.7	453.6	426.0	439.8	449.5	464.7	467.4
45°	3421.5	1276.5	452.2	442.6	442.6	402.4	391.4	394.1	416.3	432.9	430.1
47.5°	3335.8	1229.5	420.4	391.4	401.1	367.9	355.4	355.4	378.9	399.7	395.5
48°	3302.6	1210.1	421.8	380.3	387.2	362.3	349.9	347.1	373.4	392.8	392.8
50°	3138.0	1138.2	385.9	349.9	336.1	333.3	325.0	327.8	344.4	362.3	362.3
52.5°	2817.1	983.3	326.4	300.1	275.2	291.8	296.0	290.4	298.7	315.3	313.9
55°	2351.1	755.1	261.4	248.9	229.6	247.6	255.9	248.9	240.6	253.1	253.1
57.5°	1506.1	406.6	208.8	211.6	192.2	210.2	217.1	200.5	185.3	195.0	193.6
60°	679.0	243.4	171.5	167.3	154.9	175.6	186.7	167.3	146.6	153.5	160.4
62.5°	254.5	172.9	130.0	127.2	124.5	143.8	149.4	134.1	113.4	117.6	118.9
65°	186.7	152.1	103.7	94.0	99.6	113.4	110.6	95.4	81.6	81.6	84.4
67.5°	159.0	132.8	84.4	73.3	73.3	74.7	69.1	60.9	56.7	59.5	62.2
70°	124.5	105.1	66.4	56.7	51.2	45.6	40.1	38.7	34.6	38.7	37.3
72.5°	80.2	70.5	51.2	42.9	38.7	31.8	26.3	24.9	20.7	19.4	19.4
75°	42.9	42.9	40.1	34.6	30.4	24.9	20.7	16.6	11.1	8.3	8.3
77.5°	30.4	33.2	36.0	33.2	27.7	20.7	16.6	11.1	5.5	2.8	2.8
80°	29.0	33.2	36.0	31.8	27.7	20.7	15.2	8.3	4.1	1.4	1.4
82.5°	26.3	30.4	33.2	29.0	24.9	18.0	13.8	8.3	4.1	1.4	1.4
85°	5.5	6.9	8.3	8.3	9.7	12.4	9.7	6.9	2.8	1.4	1.4
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	2.8	2.8	1.4	1.4	1.4
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)