

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: P529007

Luminaire Tested: **GALN-SA4A-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529007  
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-SA4A-827-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 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: 9921 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0

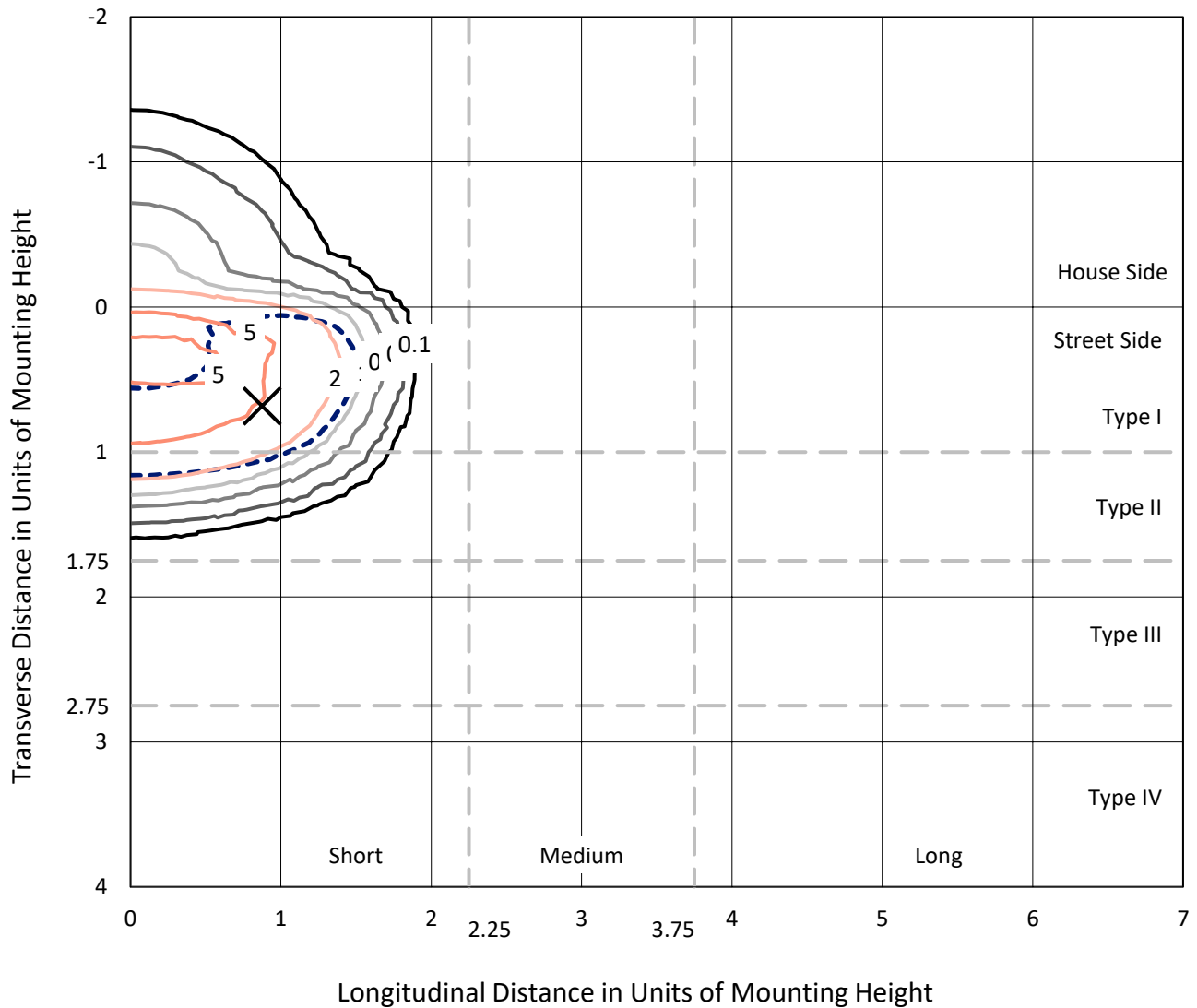
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

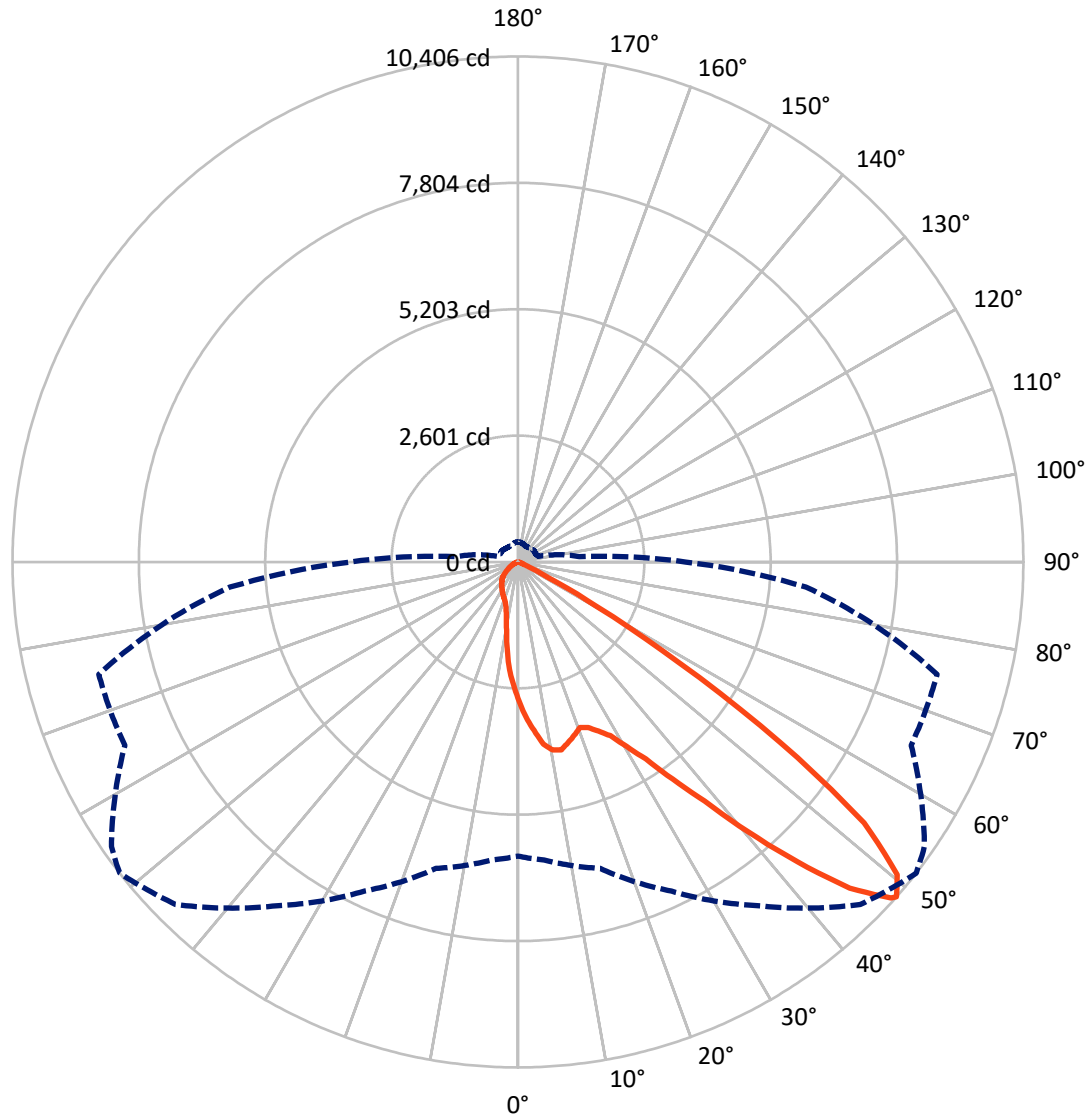
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	1208.0	0.0	1208.0
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	8713.0	0.0	8713.0
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	9921.0	0.0	9921.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.2	2.6
10°-20°	685.3	6.9
20°-30°	1170.1	11.8
30°-40°	2154.7	21.7
40°-50°	3346.3	33.7
50°-60°	2013.9	20.3
60°-70°	232.9	2.3
70°-80°	45.1	0.5
80°-90°	10.4	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°	9921.0	100.0
0°-180°	9921.0	100.0

**Coefficient of Utilization**



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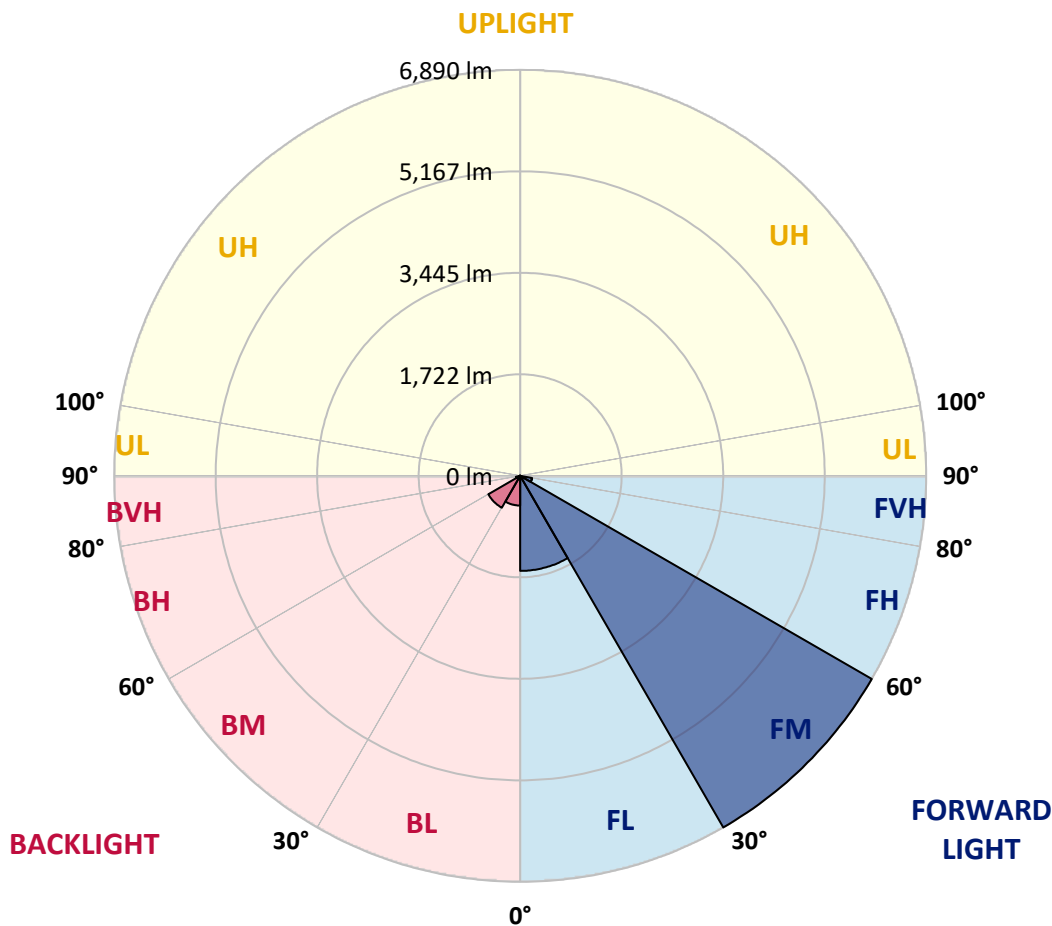
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1613.0	16.3			
FM (30°-60°)	6889.9	69.4			
FH (60°-80°)	205.1	2.1			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	504.6	5.1	B2/1000		
BM (30°-60°)	625.0	6.3	B1/1000		
BH (60°-80°)	72.9	0.7	B0/110		G0/110
BVH (80°-90°)	5.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0
2.5°	3472.4	3392.9	3400.1	3348.1	3317.7	3268.5	3202.0	3189.0	3116.7	3018.3	2918.5
5°	3784.8	3766.0	3790.6	3715.4	3718.3	3637.3	3481.1	3484.0	3317.7	3157.2	3002.4
7.5°	3805.1	3761.7	3786.3	3852.8	3891.9	3877.4	3789.2	3712.5	3554.9	3319.1	3093.5
10°	3407.4	3489.8	3515.8	3625.7	3781.9	3946.8	3936.7	3941.0	3809.4	3501.4	3171.6
12.5°	3168.7	3113.8	3202.0	3268.5	3504.3	3823.9	3970.0	4001.8	4011.9	3677.8	3249.7
15°	3060.3	3060.3	3074.7	3093.5	3264.2	3559.2	3857.1	3949.7	4168.1	3909.2	3372.7
17.5°	3128.2	3125.3	3145.6	3106.5	3170.2	3397.2	3753.0	3858.6	4343.1	4136.3	3469.6
20°	3335.1	3345.2	3332.2	3219.4	3223.7	3394.3	3637.3	3803.6	4461.7	4333.0	3598.3
22.5°	3622.9	3628.6	3554.9	3431.9	3395.8	3479.7	3703.8	3831.1	4557.1	4568.7	3637.3
25°	3955.5	3932.4	3917.9	3744.3	3634.4	3706.7	3854.3	3928.0	4616.4	4771.2	3748.7
27.5°	4416.8	4370.6	4282.3	4127.6	4046.6	3943.9	4049.5	4171.0	4785.6	5054.6	3870.2
30°	5098.0	5057.5	4885.4	4685.8	4473.2	4372.0	4405.3	4471.8	5090.8	5382.9	4030.7
32.5°	6123.4	6038.1	5789.3	5409.0	5119.7	4840.6	4831.9	4902.8	5364.1	5837.1	4221.6
35°	7252.9	7226.9	6861.0	6469.1	5909.4	5478.4	5485.6	5523.2	5887.7	6432.9	4471.8
37.5°	8003.5	8146.7	7913.9	7493.0	7023.0	6406.9	6250.7	6263.7	6606.5	7138.7	4923.0
40°	8583.5	8462.0	8489.5	8391.1	8070.1	7650.7	7305.0	7237.0	7438.1	7919.7	5371.4
42.5°	8330.4	8336.2	8505.4	8738.2	8817.8	8787.4	8434.5	8305.8	8149.6	8558.9	5798.0
45°	7615.9	7764.9	7984.7	8600.8	9141.7	9649.4	9580.0	9365.9	8641.3	9065.1	6043.9
47.5°	6476.3	6470.5	6830.6	7631.9	8833.7	10022.5	10337.8	10187.4	8989.9	9008.7	5993.3
48°	6055.4	6159.6	6531.3	7474.2	8638.4	9967.6	10405.8	10216.3	8930.6	8933.5	5949.9
50°	4476.1	4457.3	4920.1	6077.1	7715.7	9365.9	10119.4	10266.9	8929.1	8553.1	5646.2
52.5°	2364.6	2445.6	2782.6	3821.0	5455.3	7665.1	8926.3	9156.2	8613.9	7931.2	5209.4
55°	1005.1	908.2	1167.1	1725.4	3068.9	5121.2	6548.6	7060.6	7283.3	7018.6	4557.1
57.5°	358.7	391.9	451.2	649.4	1290.1	2802.8	3904.9	4302.6	5046.0	5150.1	3105.1
60°	230.0	234.3	253.1	297.9	484.5	1080.3	1852.6	2169.4	2506.4	2587.3	1449.1
62.5°	177.9	179.3	188.0	195.2	230.0	419.4	695.6	824.4	856.2	736.1	380.4
65°	149.0	150.4	153.3	153.3	163.4	196.7	243.0	267.6	260.3	257.4	215.5
67.5°	114.3	117.1	122.9	122.9	128.7	120.0	134.5	143.2	162.0	196.7	183.7
70°	89.7	91.1	95.5	98.3	98.3	86.8	96.9	105.6	118.6	146.1	144.6
72.5°	69.4	72.3	75.2	75.2	70.9	59.3	69.4	76.7	85.3	101.2	98.3
75°	53.5	53.5	55.0	44.8	34.7	30.4	41.9	50.6	63.6	66.5	55.0
77.5°	14.5	15.9	14.5	13.0	14.5	21.7	27.5	31.8	40.5	40.5	36.2
80°	0.0	1.4	4.3	8.7	14.5	20.2	24.6	27.5	31.8	34.7	33.3
82.5°	0.0	1.4	4.3	8.7	13.0	15.9	21.7	23.1	26.0	30.4	30.4
85°	0.0	1.4	2.9	5.8	8.7	10.1	10.1	8.7	8.7	7.2	5.8
87.5°	0.0	0.0	1.4	2.9	2.9	4.3	4.3	4.3	4.3	4.3	4.3
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°	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0
2.5°	2879.5	2834.6	2766.7	2659.7	2557.0	2490.4	2426.8	2355.9	2316.9	2314.0	2292.3
5°	2914.2	2813.0	2651.0	2467.3	2270.6	2101.4	1930.7	1819.4	1719.6	1664.6	1654.5
7.5°	2933.0	2801.4	2539.6	2231.6	1896.0	1619.8	1428.9	1288.6	1233.7	1193.2	1191.7
10°	2972.0	2781.1	2373.3	1919.2	1504.1	1225.0	1093.4	1029.7	999.4	987.8	970.4
12.5°	3001.0	2743.5	2202.6	1598.1	1188.8	1015.3	957.4	943.0	944.4	950.2	943.0
15°	3041.5	2710.3	1972.7	1311.7	997.9	914.0	914.0	916.9	937.2	940.1	938.6
17.5°	3038.6	2645.2	1735.5	1080.3	882.2	870.6	875.0	902.5	915.5	919.8	909.7
20°	3073.3	2584.4	1491.1	922.7	817.1	834.5	863.4	870.6	886.6	889.4	877.9
22.5°	3063.2	2432.6	1264.0	798.3	768.0	801.2	830.1	838.8	834.5	825.8	824.4
25°	3044.4	2302.4	1055.8	715.9	731.8	768.0	795.4	779.5	770.9	772.3	773.7
27.5°	3011.1	2137.6	883.7	658.0	682.6	736.1	734.7	728.9	737.6	730.4	737.6
30°	3005.3	1972.7	741.9	606.0	646.5	685.5	688.4	698.5	708.7	695.6	708.7
32.5°	3014.0	1791.9	640.7	574.2	624.8	626.2	658.0	668.2	660.9	632.0	634.9
35°	3080.5	1653.1	566.9	556.8	590.1	591.5	621.9	608.9	577.1	559.7	569.8
37.5°	3220.8	1537.4	532.2	540.9	543.8	562.6	564.0	538.0	540.9	539.5	545.2
40°	3400.1	1449.1	507.6	526.4	523.5	536.6	484.5	499.0	512.0	516.3	519.2
42.5°	3523.1	1385.5	491.7	503.3	497.5	474.4	445.4	459.9	470.0	485.9	488.8
45°	3578.0	1334.9	472.9	462.8	462.8	420.9	409.3	412.2	435.3	452.7	449.8
47.5°	3488.4	1285.7	439.7	409.3	419.4	384.7	371.7	371.7	396.3	418.0	413.6
48°	3453.6	1265.5	441.1	397.7	404.9	378.9	365.9	363.0	390.5	410.7	410.7
50°	3281.5	1190.3	403.5	365.9	351.4	348.5	339.9	342.8	360.1	378.9	378.9
52.5°	2946.0	1028.3	341.3	313.8	287.8	305.2	309.5	303.7	312.4	329.7	328.3
55°	2458.6	789.7	273.3	260.3	240.1	258.9	267.6	260.3	251.6	264.7	264.7
57.5°	1575.0	425.2	218.4	221.3	201.0	219.8	227.1	209.7	193.8	203.9	202.5
60°	710.1	254.5	179.3	175.0	162.0	183.7	195.2	175.0	153.3	160.5	167.8
62.5°	266.1	180.8	135.9	133.1	130.2	150.4	156.2	140.3	118.6	122.9	124.4
65°	195.2	159.1	108.5	98.3	104.1	118.6	115.7	99.8	85.3	85.3	88.2
67.5°	166.3	138.8	88.2	76.7	76.7	78.1	72.3	63.6	59.3	62.2	65.1
70°	130.2	109.9	69.4	59.3	53.5	47.7	41.9	40.5	36.2	40.5	39.0
72.5°	83.9	73.8	53.5	44.8	40.5	33.3	27.5	26.0	21.7	20.2	20.2
75°	44.8	44.8	41.9	36.2	31.8	26.0	21.7	17.4	11.6	8.7	8.7
77.5°	31.8	34.7	37.6	34.7	28.9	21.7	17.4	11.6	5.8	2.9	2.9
80°	30.4	34.7	37.6	33.3	28.9	21.7	15.9	8.7	4.3	1.4	1.4
82.5°	27.5	31.8	34.7	30.4	26.0	18.8	14.5	8.7	4.3	1.4	1.4
85°	5.8	7.2	8.7	8.7	10.1	13.0	10.1	7.2	2.9	1.4	1.4
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	2.9	2.9	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)