

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: P528305

Luminaire Tested: **GALN-SA3B-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528305  
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-827-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 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: 9315 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

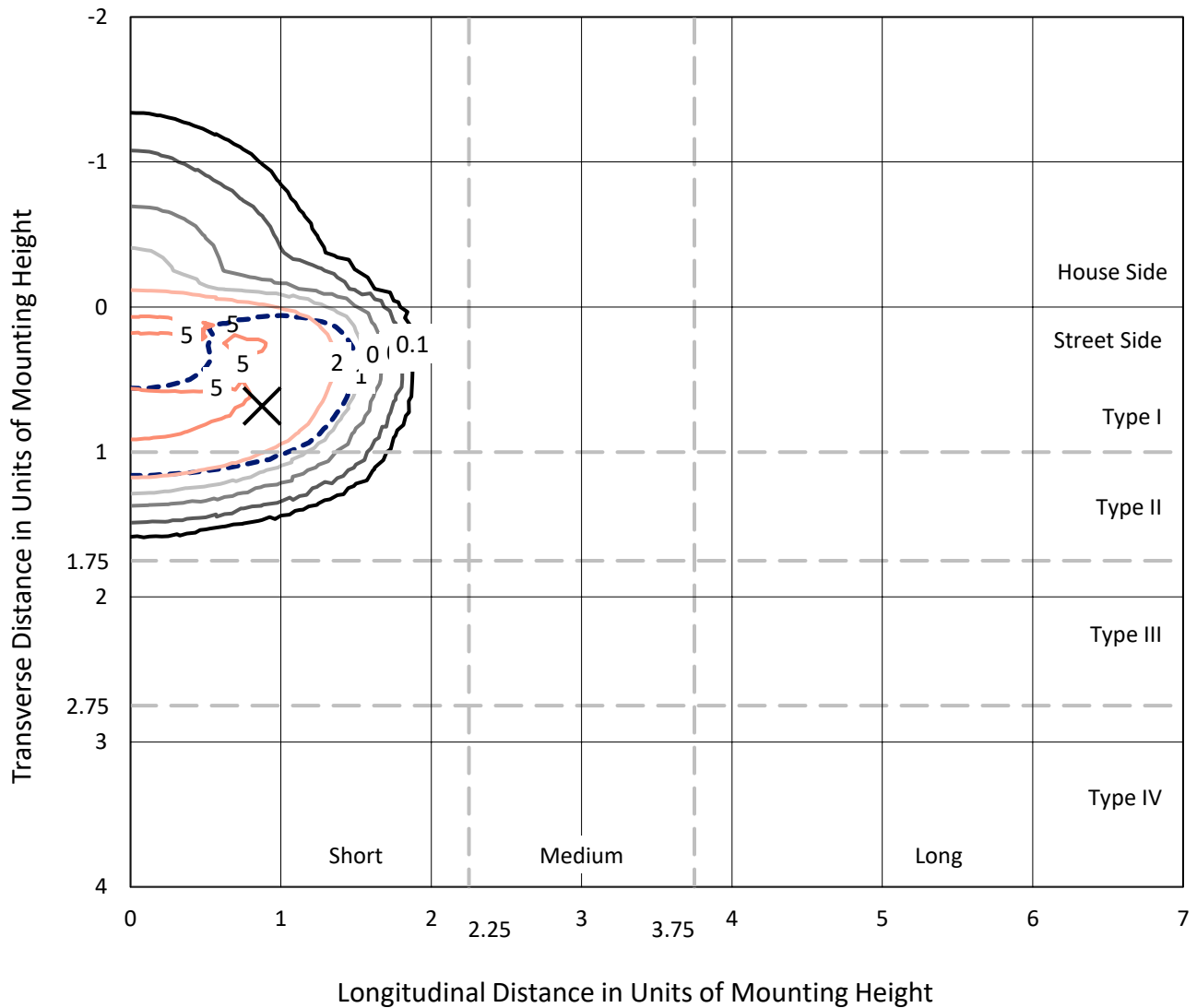
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P528305  
 CATALOG NUMBER: GALN-SA3B-827-U-AFL-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

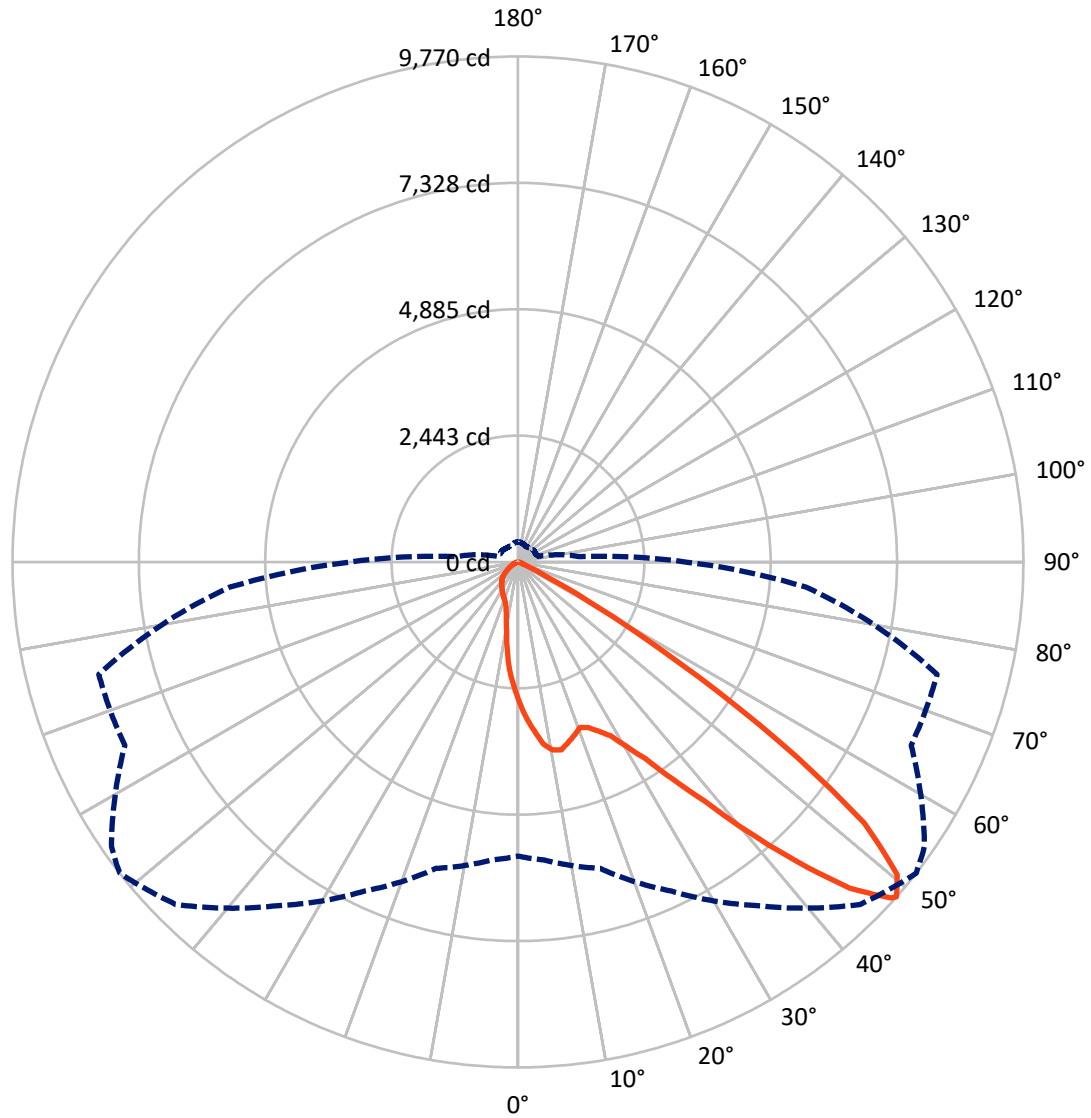
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

REPORT NUMBER: P528305  
CATALOG NUMBER: GALN-SA3B-827-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
<b>House Side</b>	Lumens	1134.2	0.0	1134.2
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	8180.8	0.0	8180.8
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	9315.0	0.0	9315.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.2	2.6
10°-20°	643.4	6.9
20°-30°	1098.6	11.8
30°-40°	2023.1	21.7
40°-50°	3141.9	33.7
50°-60°	1890.9	20.3
60°-70°	218.7	2.3
70°-80°	42.3	0.5
80°-90°	9.8	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°	9315.0	100.0
0°-180°	9315.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P528305

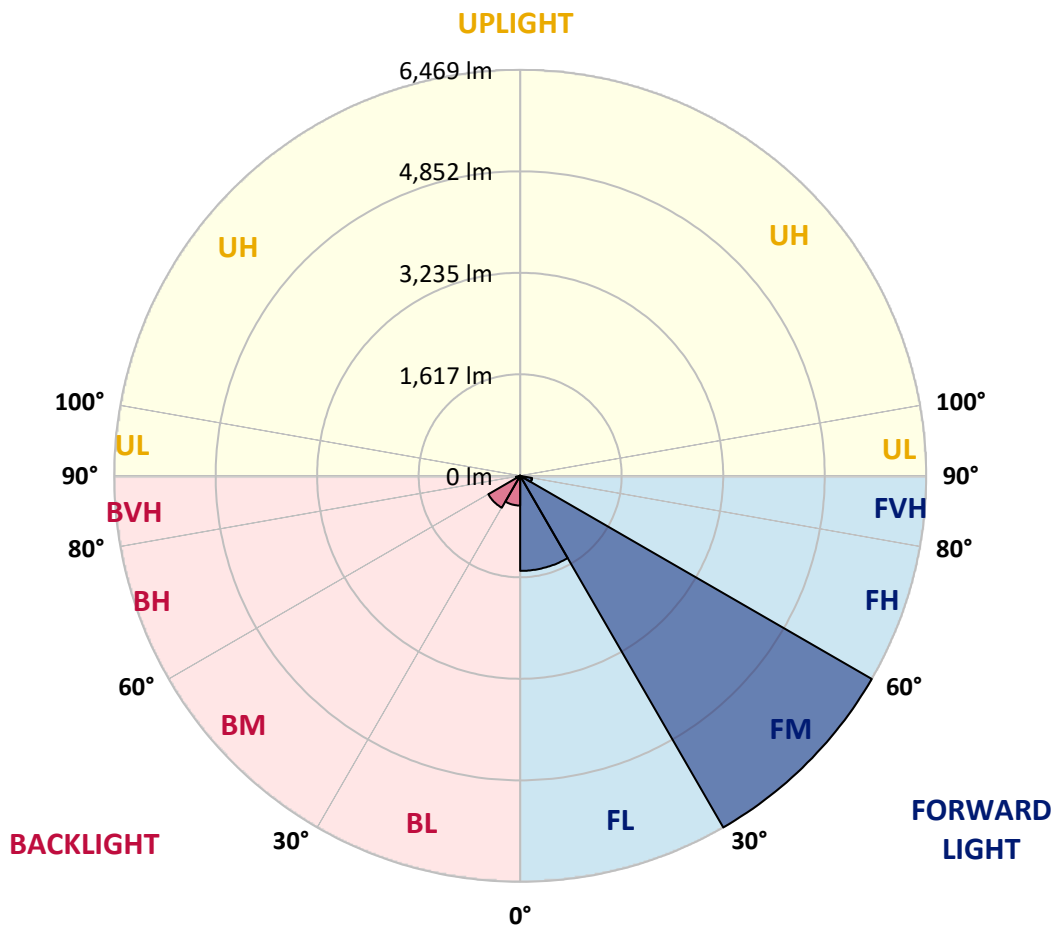
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1514.5	16.3			
FM (30°-60°)	6469.1	69.4			
FH (60°-80°)	192.6	2.1			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	473.8	5.1	B1/500		
BM (30°-60°)	586.8	6.3	B1/1000		
BH (60°-80°)	68.4	0.7	B0/110		G0/110
BVH (80°-90°)	5.1	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: P528305

CATALOG NUMBER: GALN-SA3B-827-U-AFL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2690.0	2690.0	2690.0	2690.0	2690.0	2690.0	2690.0	2690.0	2690.0	2690.0	2690.0
2.5°	3260.3	3185.7	3192.4	3143.6	3115.0	3068.9	3006.4	2994.2	2926.3	2834.0	2740.3
5°	3553.6	3536.0	3559.1	3488.5	3491.2	3415.1	3268.5	3271.2	3115.0	2964.3	2819.0
7.5°	3572.7	3531.9	3555.0	3617.5	3654.1	3640.6	3557.7	3485.8	3337.7	3116.4	2904.6
10°	3199.2	3276.6	3301.1	3404.3	3550.9	3705.7	3696.2	3700.3	3576.7	3287.5	2977.9
12.5°	2975.2	2923.6	3006.4	3068.9	3290.2	3590.3	3727.5	3757.3	3766.8	3453.2	3051.2
15°	2873.3	2873.3	2886.9	2904.6	3064.8	3341.8	3621.5	3708.4	3913.5	3670.4	3166.6
17.5°	2937.2	2934.4	2953.5	2916.8	2976.5	3189.7	3523.8	3622.9	4077.8	3883.6	3257.6
20°	3131.3	3140.8	3128.6	3022.7	3026.8	3187.0	3415.1	3571.3	4189.1	4068.3	3378.5
22.5°	3401.6	3407.0	3337.7	3222.3	3188.4	3267.1	3477.6	3597.1	4278.8	4289.6	3415.1
25°	3713.9	3692.2	3678.6	3515.6	3412.4	3480.3	3618.8	3688.1	4334.4	4479.7	3519.7
27.5°	4147.1	4103.6	4020.8	3875.5	3799.4	3703.0	3802.1	3916.2	4493.3	4745.9	3633.8
30°	4786.6	4748.6	4587.0	4399.6	4200.0	4105.0	4136.2	4198.7	4779.8	5054.1	3784.5
32.5°	5749.4	5669.3	5435.7	5078.6	4807.0	4544.9	4536.8	4603.3	5036.5	5480.5	3963.7
35°	6809.9	6785.5	6441.9	6073.9	5548.4	5143.8	5150.5	5185.9	5528.0	6040.0	4198.7
37.5°	7514.7	7649.1	7430.5	7035.3	6594.0	6015.5	5868.9	5881.1	6202.9	6702.6	4622.3
40°	8059.2	7945.1	7970.9	7878.6	7577.1	7183.3	6858.8	6795.0	6983.7	7435.9	5043.3
42.5°	7821.6	7827.0	7985.9	8204.5	8279.2	8250.7	7919.3	7798.5	7651.8	8036.1	5443.9
45°	7150.7	7290.6	7497.0	8075.5	8583.3	9060.0	8994.8	8793.8	8113.5	8511.4	5674.7
47.5°	6080.7	6075.3	6413.4	7165.7	8294.1	9410.3	9706.3	9565.1	8440.8	8458.4	5627.2
48°	5685.6	5783.3	6132.3	7017.7	8110.8	9358.7	9770.2	9592.3	8385.1	8387.8	5586.4
50°	4202.7	4185.1	4619.6	5705.9	7244.4	8793.8	9501.3	9639.8	8383.7	8030.7	5301.3
52.5°	2220.2	2296.2	2612.6	3587.6	5122.0	7196.9	8381.0	8596.9	8087.7	7446.8	4891.2
55°	943.7	852.8	1095.8	1620.0	2881.5	4808.4	6148.6	6629.3	6838.4	6589.9	4278.8
57.5°	336.8	368.0	423.7	609.7	1211.3	2631.6	3666.4	4039.8	4737.7	4835.5	2915.4
60°	215.9	220.0	237.6	279.7	454.9	1014.4	1739.5	2036.9	2353.3	2429.3	1360.6
62.5°	167.0	168.4	176.5	183.3	215.9	393.8	653.2	774.0	803.9	691.2	357.1
65°	139.9	141.2	143.9	143.9	153.4	184.7	228.1	251.2	244.4	241.7	202.3
67.5°	107.3	110.0	115.4	115.4	120.9	112.7	126.3	134.4	152.1	184.7	172.5
70°	84.2	85.5	89.6	92.3	92.3	81.5	91.0	99.1	111.3	137.1	135.8
72.5°	65.2	67.9	70.6	70.6	66.5	55.7	65.2	72.0	80.1	95.1	92.3
75°	50.2	50.2	51.6	42.1	32.6	28.5	39.4	47.5	59.7	62.5	51.6
77.5°	13.6	14.9	13.6	12.2	13.6	20.4	25.8	29.9	38.0	38.0	33.9
80°	0.0	1.4	4.1	8.1	13.6	19.0	23.1	25.8	29.9	32.6	31.2
82.5°	0.0	1.4	4.1	8.1	12.2	14.9	20.4	21.7	24.4	28.5	28.5
85°	0.0	1.4	2.7	5.4	8.1	9.5	9.5	8.1	8.1	6.8	5.4
87.5°	0.0	0.0	1.4	2.7	2.7	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



REPORT NUMBER: P528305

CATALOG NUMBER: GALN-SA3B-827-U-AFL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2690.0	2690.0	2690.0	2690.0	2690.0	2690.0	2690.0	2690.0	2690.0	2690.0	2690.0
2.5°	2703.6	2661.5	2597.7	2497.2	2400.8	2338.3	2278.6	2212.0	2175.4	2172.7	2152.3
5°	2736.2	2641.1	2489.0	2316.6	2131.9	1973.0	1812.8	1708.2	1614.6	1563.0	1553.4
7.5°	2753.8	2630.3	2384.5	2095.3	1780.2	1520.9	1341.6	1209.9	1158.3	1120.3	1118.9
10°	2790.5	2611.3	2228.3	1801.9	1412.2	1150.1	1026.6	966.8	938.3	927.5	911.2
12.5°	2817.7	2576.0	2068.1	1500.5	1116.2	953.3	898.9	885.4	886.7	892.1	885.4
15°	2855.7	2544.7	1852.2	1231.6	937.0	858.2	858.2	860.9	879.9	882.6	881.3
17.5°	2853.0	2483.6	1629.5	1014.4	828.3	817.5	821.5	847.3	859.6	863.6	854.1
20°	2885.6	2426.6	1400.0	866.3	767.2	783.5	810.7	817.5	832.4	835.1	824.3
22.5°	2876.1	2284.0	1186.8	749.6	721.0	752.3	779.4	787.6	783.5	775.4	774.0
25°	2858.4	2161.8	991.3	672.2	687.1	721.0	746.8	731.9	723.8	725.1	726.5
27.5°	2827.2	2007.0	829.7	617.8	640.9	691.2	689.8	684.4	692.5	685.7	692.5
30°	2821.7	1852.2	696.6	569.0	607.0	643.6	646.4	655.9	665.4	653.2	665.4
32.5°	2829.9	1682.4	601.6	539.1	586.6	588.0	617.8	627.4	620.6	593.4	596.1
35°	2892.3	1552.1	532.3	522.8	554.0	555.4	583.9	571.7	541.8	525.5	535.0
37.5°	3024.1	1443.5	499.7	507.9	510.6	528.2	529.6	505.1	507.9	506.5	511.9
40°	3192.4	1360.6	476.6	494.3	491.6	503.8	454.9	468.5	480.7	484.8	487.5
42.5°	3307.9	1300.9	461.7	472.6	467.1	445.4	418.2	431.8	441.3	456.3	459.0
45°	3359.5	1253.3	444.0	434.5	434.5	395.2	384.3	387.0	408.7	425.0	422.3
47.5°	3275.3	1207.2	412.8	384.3	393.8	361.2	349.0	349.0	372.1	392.4	388.4
48°	3242.7	1188.2	414.2	373.4	380.2	355.8	343.6	340.8	366.6	385.6	385.6
50°	3081.1	1117.6	378.9	343.6	330.0	327.3	319.1	321.8	338.1	355.8	355.8
52.5°	2766.1	965.5	320.5	294.7	270.2	286.5	290.6	285.2	293.3	309.6	308.2
55°	2308.4	741.4	256.6	244.4	225.4	243.1	251.2	244.4	236.3	248.5	248.5
57.5°	1478.8	399.2	205.0	207.8	188.7	206.4	213.2	196.9	182.0	191.5	190.1
60°	666.7	239.0	168.4	164.3	152.1	172.5	183.3	164.3	143.9	150.7	157.5
62.5°	249.9	169.7	127.6	124.9	122.2	141.2	146.7	131.7	111.3	115.4	116.8
65°	183.3	149.4	101.8	92.3	97.8	111.3	108.6	93.7	80.1	80.1	82.8
67.5°	156.2	130.4	82.8	72.0	72.0	73.3	67.9	59.7	55.7	58.4	61.1
70°	122.2	103.2	65.2	55.7	50.2	44.8	39.4	38.0	33.9	38.0	36.7
72.5°	78.8	69.3	50.2	42.1	38.0	31.2	25.8	24.4	20.4	19.0	19.0
75°	42.1	42.1	39.4	33.9	29.9	24.4	20.4	16.3	10.9	8.1	8.1
77.5°	29.9	32.6	35.3	32.6	27.2	20.4	16.3	10.9	5.4	2.7	2.7
80°	28.5	32.6	35.3	31.2	27.2	20.4	14.9	8.1	4.1	1.4	1.4
82.5°	25.8	29.9	32.6	28.5	24.4	17.7	13.6	8.1	4.1	1.4	1.4
85°	5.4	6.8	8.1	8.1	9.5	12.2	9.5	6.8	2.7	1.4	1.4
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	2.7	2.7	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)