

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: P527681

Luminaire Tested: **GALN-SA2D-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527681  
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-SA2D-727-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA 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: 9706 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

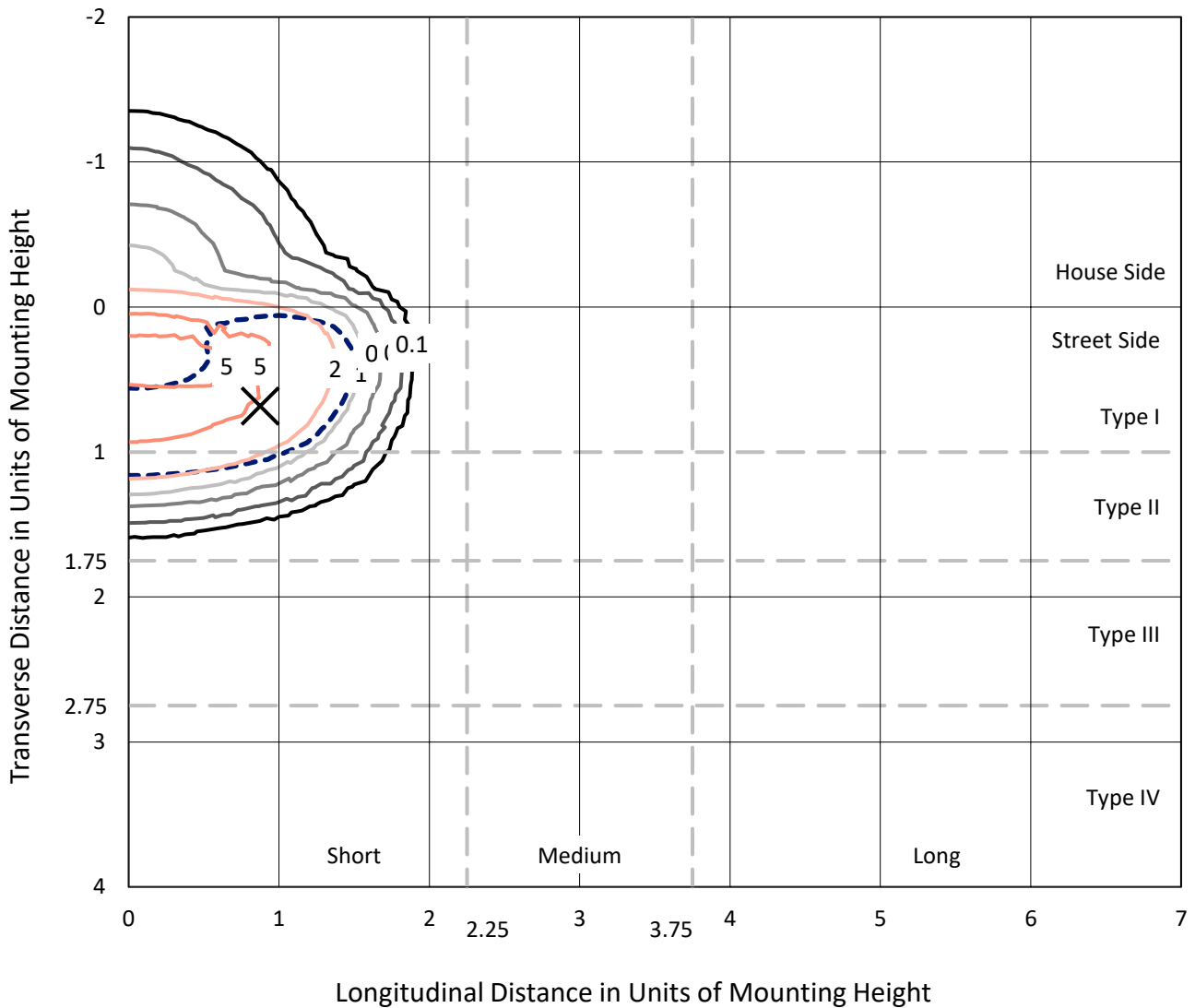
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

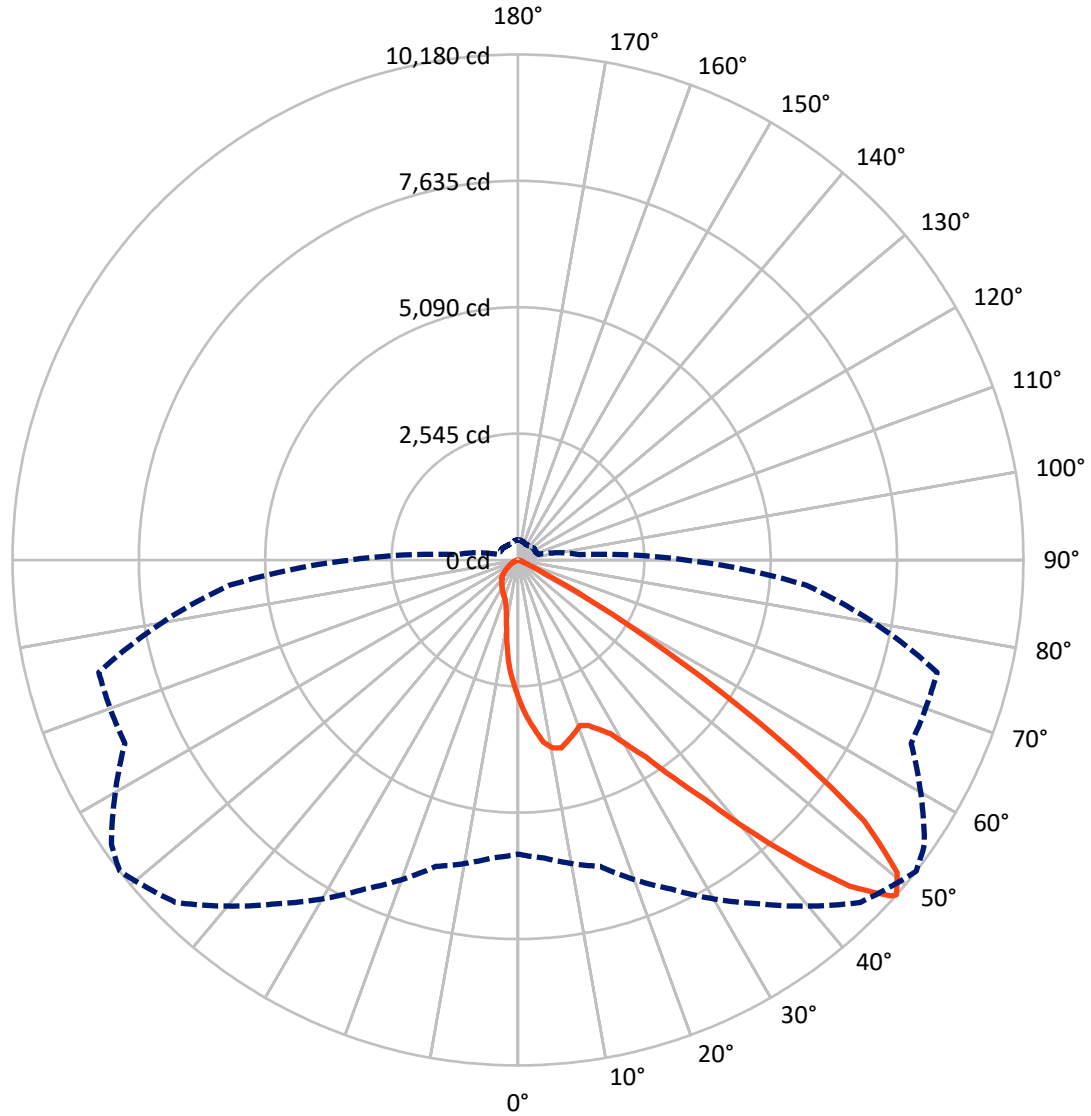
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	1181.8	0.0	1181.8
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	8524.2	0.0	8524.2
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	9706.0	0.0	9706.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.5	2.6
10°-20°	670.5	6.9
20°-30°	1144.7	11.8
30°-40°	2108.0	21.7
40°-50°	3273.8	33.7
50°-60°	1970.3	20.3
60°-70°	227.9	2.3
70°-80°	44.1	0.5
80°-90°	10.2	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°	9706.0	100.0
0°-180°	9706.0	100.0

**Coefficient of Utilization**



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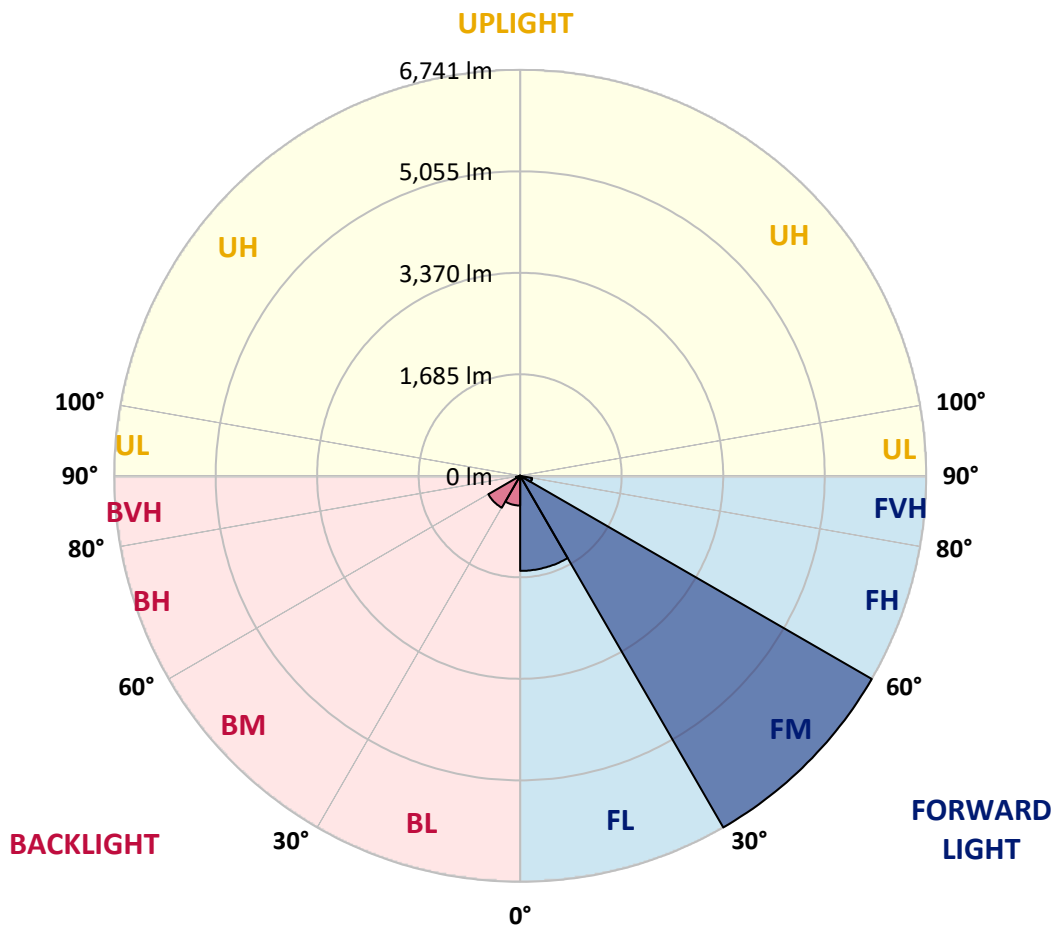
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1578.1	16.3			
FM (30°-60°)	6740.6	69.4			
FH (60°-80°)	200.7	2.1			G0/660
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	493.7	5.1	B1/500		
BM (30°-60°)	611.4	6.3	B1/1000		
BH (60°-80°)	71.3	0.7	B0/110		G0/110
BVH (80°-90°)	5.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2802.9	2802.9	2802.9	2802.9	2802.9	2802.9	2802.9	2802.9	2802.9	2802.9	2802.9
2.5°	3397.2	3319.4	3326.4	3275.5	3245.8	3197.7	3132.6	3119.9	3049.1	2952.9	2855.3
5°	3702.8	3684.4	3708.5	3634.9	3637.7	3558.5	3405.7	3408.5	3245.8	3088.7	2937.3
7.5°	3722.6	3680.2	3704.2	3769.3	3807.5	3793.4	3707.1	3632.1	3477.8	3247.2	3026.5
10°	3333.5	3414.2	3439.6	3547.2	3700.0	3861.3	3851.4	3855.6	3726.9	3425.5	3102.9
12.5°	3100.1	3046.3	3132.6	3197.7	3428.3	3741.0	3883.9	3915.0	3925.0	3598.1	3179.3
15°	2993.9	2993.9	3008.1	3026.5	3193.4	3482.1	3773.6	3864.1	4077.8	3824.5	3299.6
17.5°	3060.4	3057.6	3077.4	3039.2	3101.5	3323.6	3671.7	3775.0	4249.0	4046.6	3394.4
20°	3262.8	3272.7	3259.9	3149.6	3153.8	3320.8	3558.5	3721.2	4365.0	4239.1	3520.3
22.5°	3544.3	3550.0	3477.8	3357.6	3322.2	3404.3	3623.6	3748.1	4458.4	4469.7	3558.5
25°	3869.8	3847.1	3833.0	3663.2	3555.7	3626.4	3770.7	3842.9	4516.4	4667.8	3667.4
27.5°	4321.1	4275.9	4189.5	4038.1	3958.9	3858.5	3961.7	4080.6	4681.9	4945.1	3786.3
30°	4987.5	4947.9	4779.6	4584.3	4376.3	4277.3	4309.8	4374.9	4980.5	5266.3	3943.3
32.5°	5990.7	5907.2	5663.9	5291.8	5008.8	4735.7	4727.2	4796.5	5247.9	5710.6	4130.1
35°	7095.8	7070.3	6712.3	6328.9	5781.3	5359.7	5366.7	5403.5	5760.1	6293.5	4374.9
37.5°	7830.1	7970.2	7742.4	7330.6	6870.8	6268.0	6115.2	6128.0	6463.3	6984.0	4816.3
40°	8397.5	8278.6	8305.5	8209.3	7895.2	7484.9	7146.7	7080.2	7276.9	7748.0	5255.0
42.5°	8149.9	8155.5	8321.1	8548.9	8626.7	8597.0	8251.7	8125.8	7973.0	8373.4	5672.4
45°	7450.9	7596.6	7811.7	8414.5	8943.6	9440.3	9372.3	9162.9	8454.1	8868.6	5912.9
47.5°	6336.0	6330.3	6682.6	7466.5	8642.3	9805.3	10113.8	9966.6	8795.1	8813.5	5863.4
48°	5924.2	6026.1	6389.7	7312.2	8451.2	9751.5	10180.3	9994.9	8737.1	8739.9	5820.9
50°	4379.1	4360.7	4813.5	5945.4	7548.5	9162.9	9900.1	10044.4	8735.6	8367.8	5523.8
52.5°	2313.4	2392.6	2722.3	3738.2	5337.0	7499.0	8732.8	8957.8	8427.2	7759.4	5096.5
55°	983.4	888.6	1141.8	1688.0	3002.4	5010.2	6406.7	6907.6	7125.5	6866.5	4458.4
57.5°	350.9	383.4	441.5	635.3	1262.1	2742.1	3820.3	4209.3	4936.6	5038.5	3037.8
60°	225.0	229.2	247.6	291.5	474.0	1056.9	1812.5	2122.4	2452.0	2531.3	1417.7
62.5°	174.0	175.4	183.9	191.0	225.0	410.3	680.6	806.5	837.6	720.2	372.1
65°	145.7	147.2	150.0	150.0	159.9	192.4	237.7	261.8	254.7	251.9	210.8
67.5°	111.8	114.6	120.3	120.3	125.9	117.4	131.6	140.1	158.5	192.4	179.7
70°	87.7	89.1	93.4	96.2	96.2	84.9	94.8	103.3	116.0	142.9	141.5
72.5°	67.9	70.7	73.6	73.6	69.3	58.0	67.9	75.0	83.5	99.0	96.2
75°	52.4	52.4	53.8	43.9	34.0	29.7	41.0	49.5	62.3	65.1	53.8
77.5°	14.1	15.6	14.1	12.7	14.1	21.2	26.9	31.1	39.6	39.6	35.4
80°	0.0	1.4	4.2	8.5	14.1	19.8	24.1	26.9	31.1	34.0	32.5
82.5°	0.0	1.4	4.2	8.5	12.7	15.6	21.2	22.6	25.5	29.7	29.7
85°	0.0	1.4	2.8	5.7	8.5	9.9	9.9	8.5	8.5	7.1	5.7
87.5°	0.0	0.0	1.4	2.8	2.8	4.2	4.2	4.2	4.2	4.2	4.2
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°	2802.9	2802.9	2802.9	2802.9	2802.9	2802.9	2802.9	2802.9	2802.9	2802.9	2802.9
2.5°	2817.1	2773.2	2706.7	2602.0	2501.6	2436.5	2374.2	2304.9	2266.7	2263.9	2242.6
5°	2851.0	2752.0	2593.5	2413.8	2221.4	2055.9	1888.9	1780.0	1682.3	1628.6	1618.7
7.5°	2869.4	2740.7	2484.6	2183.2	1854.9	1584.7	1397.9	1260.7	1206.9	1167.3	1165.9
10°	2907.6	2720.9	2321.9	1877.6	1471.5	1198.4	1069.7	1007.4	977.7	966.4	949.4
12.5°	2935.9	2684.1	2154.9	1563.5	1163.1	993.3	936.7	922.5	923.9	929.6	922.5
15°	2975.6	2651.5	1929.9	1283.3	976.3	894.2	894.2	897.1	916.9	919.7	918.3
17.5°	2972.7	2587.9	1697.9	1056.9	863.1	851.8	856.0	882.9	895.6	899.9	890.0
20°	3006.7	2528.4	1458.8	902.7	799.4	816.4	844.7	851.8	867.3	870.2	858.8
22.5°	2996.8	2379.9	1236.6	781.0	751.3	783.9	812.2	820.6	816.4	807.9	806.5
25°	2978.4	2252.5	1032.9	700.4	715.9	751.3	778.2	762.6	754.1	755.6	757.0
27.5°	2945.8	2091.2	864.5	643.8	667.8	720.2	718.8	713.1	721.6	714.5	721.6
30°	2940.2	1929.9	725.8	592.8	632.5	670.7	673.5	683.4	693.3	680.6	693.3
32.5°	2948.7	1753.1	626.8	561.7	611.2	612.7	643.8	653.7	646.6	618.3	621.1
35°	3013.8	1617.2	554.6	544.7	577.3	578.7	608.4	595.7	564.5	547.6	557.5
37.5°	3151.0	1504.0	520.7	529.2	532.0	550.4	551.8	526.3	529.2	527.8	533.4
40°	3326.4	1417.7	496.6	515.0	512.2	524.9	474.0	488.1	500.9	505.1	508.0
42.5°	3446.7	1355.5	481.1	492.4	486.7	464.1	435.8	449.9	459.8	475.4	478.2
45°	3500.5	1306.0	462.7	452.8	452.8	411.7	400.4	403.2	425.9	442.9	440.0
47.5°	3412.8	1257.9	430.1	400.4	410.3	376.4	363.6	363.6	387.7	408.9	404.7
48°	3378.8	1238.0	431.5	389.1	396.2	370.7	358.0	355.1	382.0	401.8	401.8
50°	3210.4	1164.5	394.8	358.0	343.8	341.0	332.5	335.3	352.3	370.7	370.7
52.5°	2882.2	1006.0	333.9	307.0	281.6	298.5	302.8	297.1	305.6	322.6	321.2
55°	2405.3	772.5	267.4	254.7	234.9	253.3	261.8	254.7	246.2	258.9	258.9
57.5°	1540.8	416.0	213.7	216.5	196.7	215.1	222.1	205.2	189.6	199.5	198.1
60°	694.7	249.0	175.4	171.2	158.5	179.7	191.0	171.2	150.0	157.1	164.1
62.5°	260.3	176.9	133.0	130.2	127.3	147.2	152.8	137.2	116.0	120.3	121.7
65°	191.0	155.6	106.1	96.2	101.9	116.0	113.2	97.6	83.5	83.5	86.3
67.5°	162.7	135.8	86.3	75.0	75.0	76.4	70.7	62.3	58.0	60.8	63.7
70°	127.3	107.5	67.9	58.0	52.4	46.7	41.0	39.6	35.4	39.6	38.2
72.5°	82.1	72.2	52.4	43.9	39.6	32.5	26.9	25.5	21.2	19.8	19.8
75°	43.9	43.9	41.0	35.4	31.1	25.5	21.2	17.0	11.3	8.5	8.5
77.5°	31.1	34.0	36.8	34.0	28.3	21.2	17.0	11.3	5.7	2.8	2.8
80°	29.7	34.0	36.8	32.5	28.3	21.2	15.6	8.5	4.2	1.4	1.4
82.5°	26.9	31.1	34.0	29.7	25.5	18.4	14.1	8.5	4.2	1.4	1.4
85°	5.7	7.1	8.5	8.5	9.9	12.7	9.9	7.1	2.8	1.4	1.4
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	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)