

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: P532835

Luminaire Tested: **GALN-SA8B-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532835  
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-SA8B-727-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 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: 22472 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

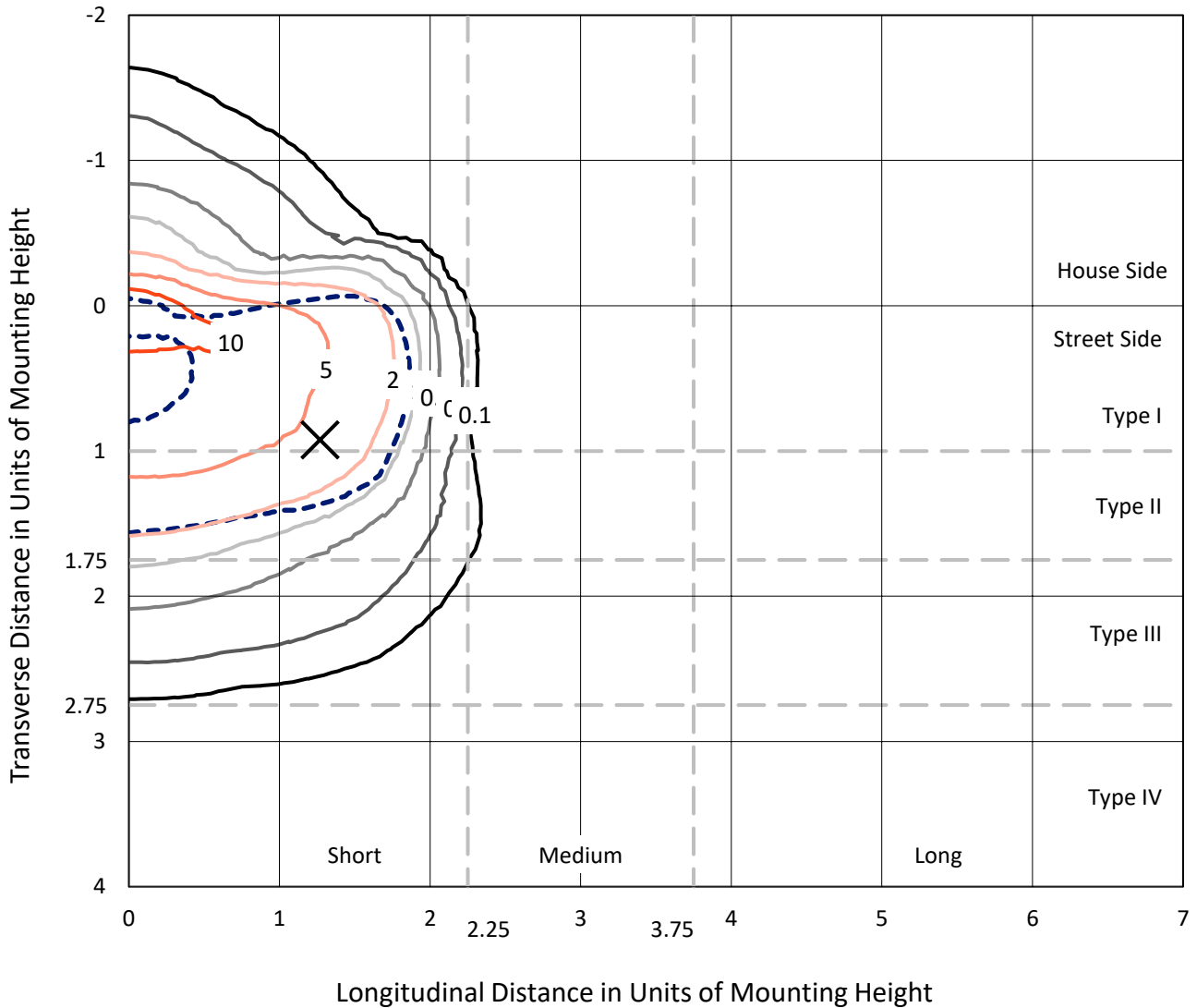
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

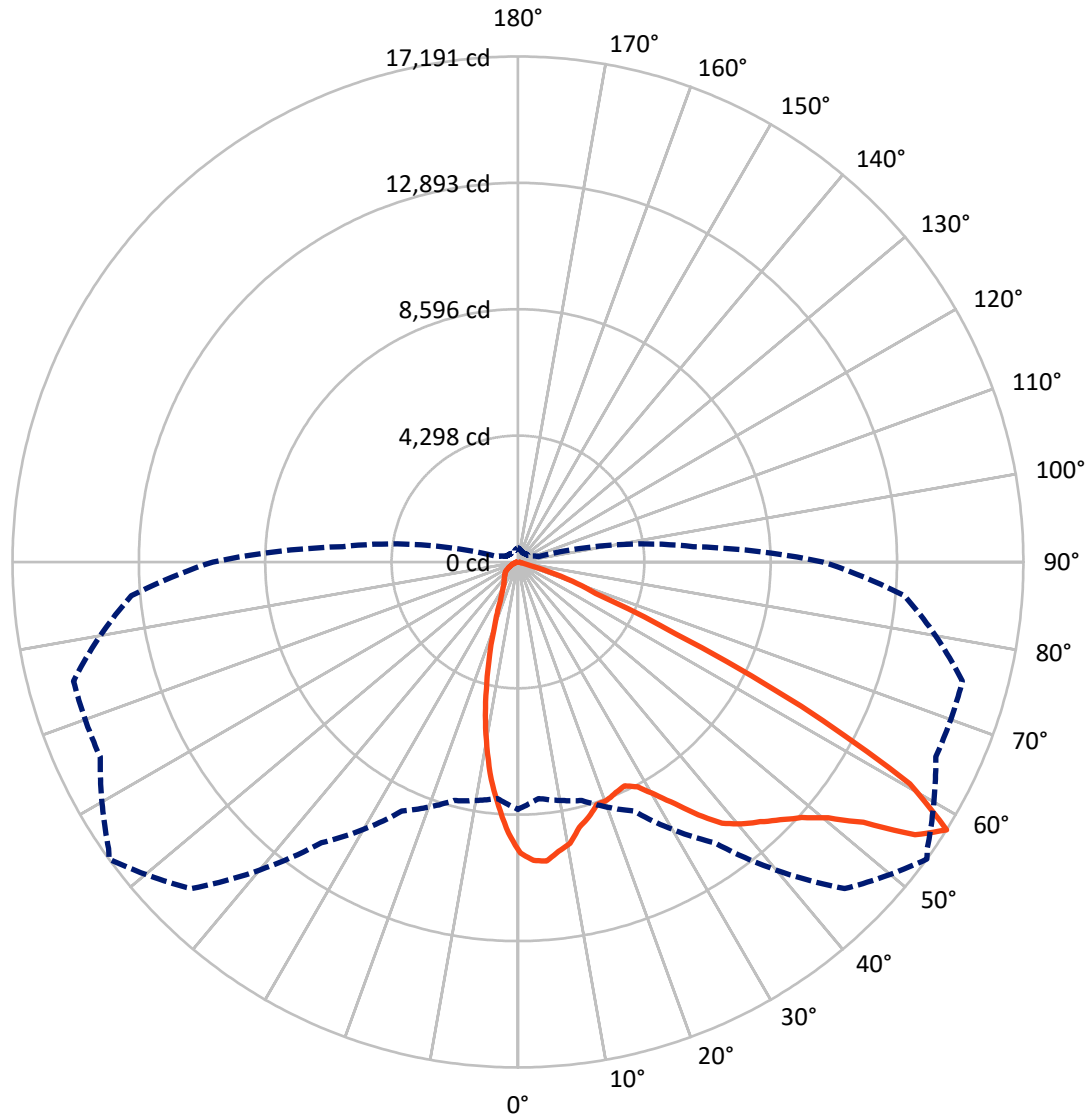
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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	3175.7	0.0	3175.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	19296.3	0.0	19296.3
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	22472.0	0.0	22472.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	828.4	3.7
10°-20°	1768.6	7.9
20°-30°	2343.7	10.4
30°-40°	3406.1	15.2
40°-50°	5050.8	22.5
50°-60°	6315.8	28.1
60°-70°	2491.3	11.1
70°-80°	248.0	1.1
80°-90°	19.3	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°	22472.0	100.0
0°-180°	22472.0	100.0

**Coefficient of Utilization**

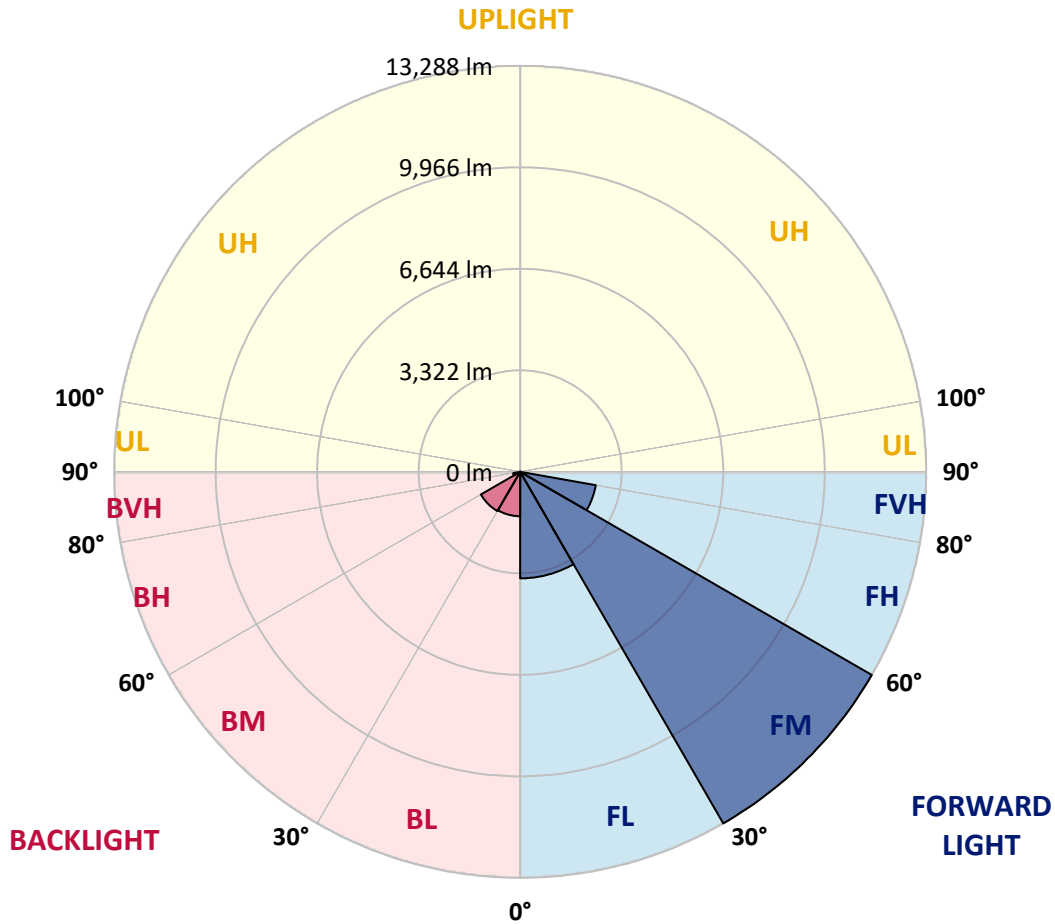


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3488.3	15.5			
FM (30°-60°)	13287.6	59.1			
FH (60°-80°)	2511.6	11.2			G2/5000
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	1452.4	6.5	B3/2500		
BM (30°-60°)	1485.0	6.6	B2/2500		
BH (60°-80°)	227.7	1.0	B1/500		G1/500
BVH (80°-90°)	10.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9899.2	9899.2	9899.2	9899.2	9899.2	9899.2	9899.2	9899.2	9899.2	9899.2	9899.2
2.5°	10475.9	10367.2	10375.6	10338.0	10287.8	10325.4	10162.5	10200.1	10195.9	9974.4	9828.2
5°	10212.6	10329.6	10208.4	10308.7	10212.6	10317.1	10216.8	10141.6	10020.4	9857.4	9585.8
7.5°	9765.5	9652.7	9686.1	9811.5	9832.4	10066.4	9941.0	10037.1	9987.0	9665.2	9293.3
10°	8867.1	8842.0	9009.2	9176.3	9381.1	9631.8	9727.9	9673.6	9636.0	9514.8	9017.5
12.5°	8177.6	8248.7	8244.5	8520.3	8867.1	9009.2	9259.9	9251.5	9460.5	9234.8	8758.4
15°	7521.6	7559.2	7734.7	7906.0	8290.4	8695.8	9005.0	9046.8	9297.5	9138.7	8557.9
17.5°	7120.4	7066.1	7204.0	7408.7	7801.5	8332.2	8674.9	8775.2	9117.8	9084.4	8328.0
20°	6723.4	6723.4	6836.3	7078.6	7438.0	8035.5	8645.6	8616.4	9117.8	9021.7	8081.5
22.5°	6589.7	6656.6	6685.8	6869.7	7295.9	7809.9	8520.3	8574.6	9188.8	8992.5	7972.9
25°	6773.6	6685.8	6694.2	6840.4	7241.6	7701.2	8428.3	8549.5	9318.4	9138.7	7885.1
27.5°	6802.8	6890.6	6915.7	7016.0	7283.4	7734.7	8658.2	8904.7	9640.1	9481.4	7910.2
30°	7057.7	7145.5	7141.3	7312.6	7496.5	8006.3	9172.1	9222.3	10304.5	9911.8	8064.8
32.5°	7367.0	7458.9	7488.1	7688.7	7835.0	8503.5	9798.9	9928.5	10943.9	10588.7	8470.1
35°	7751.4	7718.0	7851.7	8052.3	8365.7	9230.6	10563.6	10780.9	11633.4	11466.2	8888.0
37.5°	8231.9	8190.2	8319.7	8645.6	9071.8	10091.4	11269.8	11411.9	12134.8	12281.0	9661.0
40°	8570.4	8587.1	8979.9	9418.7	9870.0	10910.5	11716.9	11854.8	12485.8	13041.6	10246.0
42.5°	9134.5	9239.0	9711.2	10246.0	10718.2	11524.7	12080.5	12214.2	12648.8	13651.6	11035.8
45°	9953.5	9907.6	10429.9	11027.5	11549.8	12164.0	12510.9	12464.9	12744.9	14257.5	11533.1
47.5°	11006.6	11014.9	11361.7	11871.5	12414.8	12719.8	12991.4	12828.5	12945.5	14896.9	12197.5
50°	11725.3	11788.0	12067.9	12590.3	12861.9	13329.9	13676.7	13576.4	13538.8	15281.3	12615.3
52.5°	11909.1	12097.2	12247.6	12899.5	13534.6	14274.3	14717.2	14930.3	14261.7	15410.9	13146.0
55°	10521.8	10689.0	11219.7	12113.9	13789.5	15770.2	16380.3	16384.5	15206.1	15987.5	13517.9
57.5°	8411.6	8073.1	8399.1	9347.6	11658.4	15707.5	17191.0	16994.6	15678.3	15649.0	13196.2
60°	5816.7	5733.1	5754.0	6130.1	8069.0	12494.2	15318.9	15573.8	14437.2	13563.9	10446.6
62.5°	4609.0	4538.0	4446.1	4404.3	5010.2	7784.8	10806.0	11165.3	10095.6	8796.1	6192.8
65°	3610.4	3568.6	3581.1	3748.2	3744.1	4416.8	5908.6	5762.4	4613.2	3409.8	1947.3
67.5°	2436.2	2498.8	2549.0	3054.6	3313.7	3075.5	2854.0	2770.4	1500.1	631.0	430.4
70°	1370.6	1379.0	1433.3	1909.6	2515.5	2386.0	1968.1	1968.1	748.0	229.8	246.5
72.5°	748.0	722.9	672.8	823.2	1119.9	1136.6	877.5	764.7	221.5	150.4	137.9
75°	363.5	359.4	309.2	254.9	242.4	200.6	154.6	142.1	100.3	96.1	83.6
77.5°	75.2	71.0	37.6	37.6	41.8	46.0	58.5	58.5	71.0	71.0	58.5
80°	0.0	0.0	4.2	16.7	29.3	41.8	50.1	50.1	58.5	58.5	46.0
82.5°	0.0	0.0	4.2	12.5	25.1	37.6	46.0	50.1	58.5	62.7	50.1
85°	0.0	0.0	0.0	8.4	20.9	29.3	25.1	25.1	20.9	16.7	8.4
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°	9899.2	9899.2	9899.2	9899.2	9899.2	9899.2	9899.2	9899.2	9899.2	9899.2	9899.2
2.5°	9753.0	9744.6	9552.4	9443.7	9247.3	9076.0	8938.1	8837.8	8837.8	8775.2	8716.7
5°	9477.2	9406.1	8996.6	8733.4	8361.5	8085.7	7897.6	7751.4	7521.6	7584.2	7337.7
7.5°	9134.5	8954.8	8411.6	8010.5	7496.5	7103.7	6702.6	6347.4	6004.7	5850.1	5933.7
10°	8766.8	8453.4	7722.1	7087.0	6447.7	5728.9	5260.9	4692.6	4341.6	4320.7	4228.8
12.5°	8378.2	8023.0	7133.0	6255.4	5415.5	4550.5	3836.0	3305.3	3067.1	2803.9	2854.0
15°	8085.7	7559.2	6476.9	5419.7	4304.0	3430.7	2711.9	2302.4	2076.8	2014.1	1993.2
17.5°	7768.1	7204.0	5808.3	4529.7	3376.3	2469.6	1951.4	1755.0	1667.3	1667.3	1654.7
20°	7438.0	6802.8	5143.9	3702.3	2532.3	1842.8	1562.8	1500.1	1496.0	1491.8	1491.8
22.5°	7220.7	6343.2	4542.2	2941.8	1909.6	1475.1	1358.1	1333.0	1349.7	1399.8	1399.8
25°	6990.9	5900.3	3877.8	2269.0	1479.2	1266.1	1199.3	1216.0	1257.8	1303.7	1287.0
27.5°	6756.9	5611.9	3251.0	1780.1	1211.8	1107.3	1082.3	1119.9	1165.8	1207.6	1195.1
30°	6702.6	5302.7	2657.6	1349.7	1040.5	965.3	982.0	1015.4	1061.4	1078.1	1094.8
32.5°	6786.1	5060.3	2177.1	1107.3	906.8	885.9	885.9	902.6	931.8	969.4	956.9
35°	7024.3	4922.4	1721.6	961.1	831.6	810.7	806.5	823.2	839.9	852.4	839.9
37.5°	7387.9	4813.8	1408.2	852.4	781.4	748.0	739.6	735.4	752.2	756.3	764.7
40°	7851.7	4872.3	1195.1	785.6	731.3	693.7	668.6	668.6	668.6	681.1	685.3
42.5°	8353.1	4951.7	1032.1	748.0	685.3	639.3	614.3	605.9	614.3	631.0	626.8
45°	8879.6	5106.3	927.7	689.5	643.5	585.0	551.6	543.2	564.1	597.5	593.4
47.5°	9372.7	5327.8	848.3	651.9	601.7	547.4	505.6	497.3	534.9	580.8	585.0
50°	9865.8	5712.2	819.0	622.6	572.5	509.8	472.2	463.8	505.6	564.1	576.7
52.5°	10434.1	6125.9	798.1	585.0	539.0	480.5	438.8	430.4	476.4	551.6	555.8
55°	10806.0	6476.9	781.4	518.2	476.4	434.6	401.2	397.0	447.1	514.0	530.7
57.5°	10371.4	5988.0	722.9	451.3	405.3	384.4	355.2	355.2	397.0	459.7	472.2
60°	7864.2	3940.5	514.0	363.5	342.6	330.1	317.6	317.6	351.0	397.0	401.2
62.5°	4604.9	2122.8	330.1	292.5	292.5	280.0	259.1	259.1	292.5	317.6	321.8
65°	1366.4	681.1	267.4	250.7	246.5	225.6	204.8	200.6	225.6	238.2	234.0
67.5°	392.8	313.4	221.5	208.9	204.8	171.3	158.8	154.6	158.8	150.4	146.3
70°	234.0	213.1	171.3	175.5	154.6	125.4	112.8	108.6	100.3	87.8	79.4
72.5°	129.5	129.5	125.4	133.7	108.6	83.6	71.0	58.5	46.0	37.6	33.4
75°	79.4	83.6	87.8	91.9	71.0	54.3	46.0	29.3	16.7	8.4	8.4
77.5°	54.3	58.5	62.7	66.9	58.5	50.1	37.6	20.9	4.2	0.0	0.0
80°	41.8	46.0	54.3	58.5	62.7	66.9	50.1	20.9	4.2	0.0	0.0
82.5°	46.0	50.1	62.7	58.5	58.5	58.5	46.0	20.9	4.2	0.0	0.0
85°	8.4	12.5	20.9	20.9	29.3	37.6	29.3	8.4	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)