

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: P529559

Luminaire Tested: **GALN-SA4D-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529559  
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-SA4D-727-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1200mA 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: 14967 lumens  
Efficiency: N/A  
Efficacy: 61.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

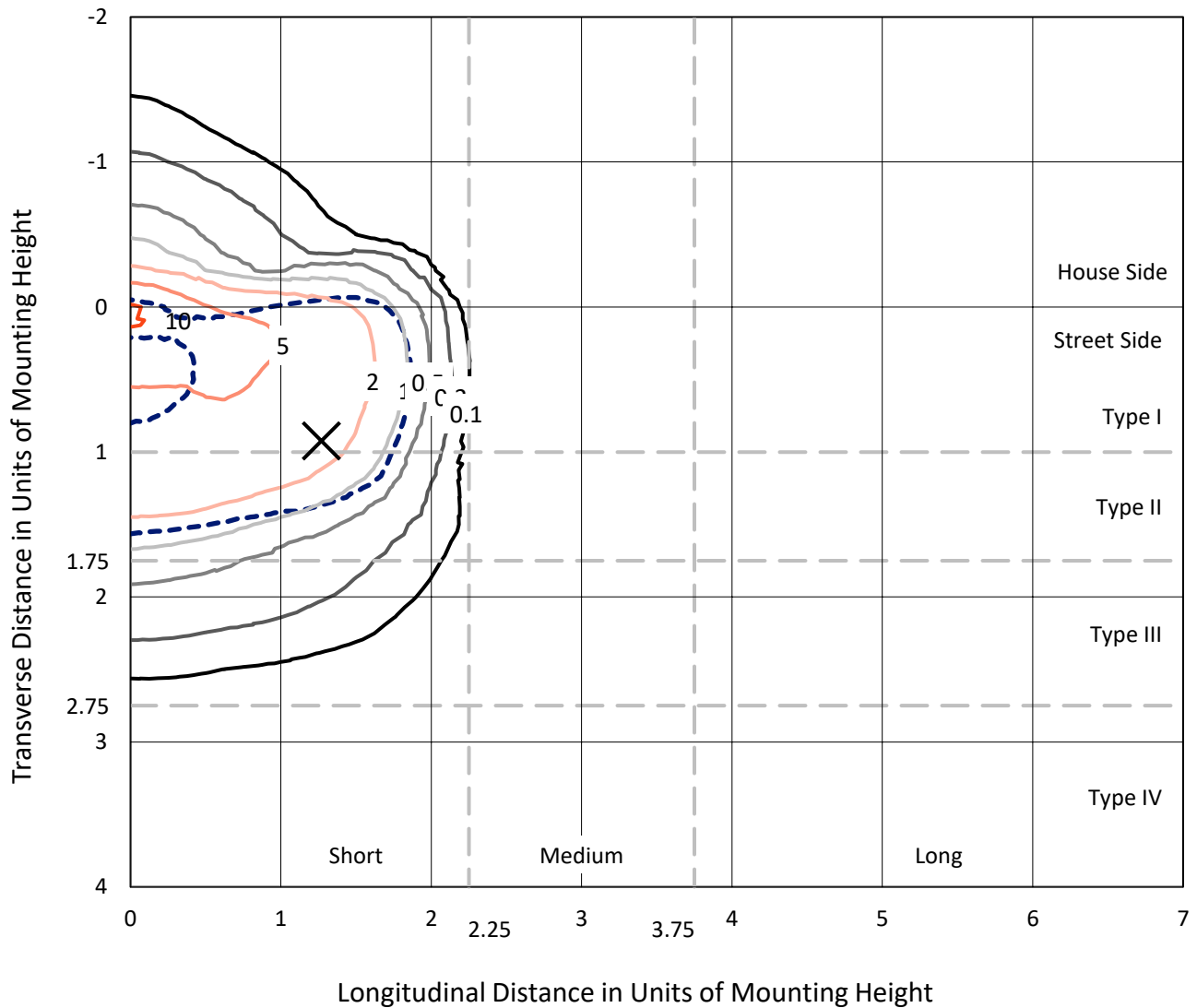
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

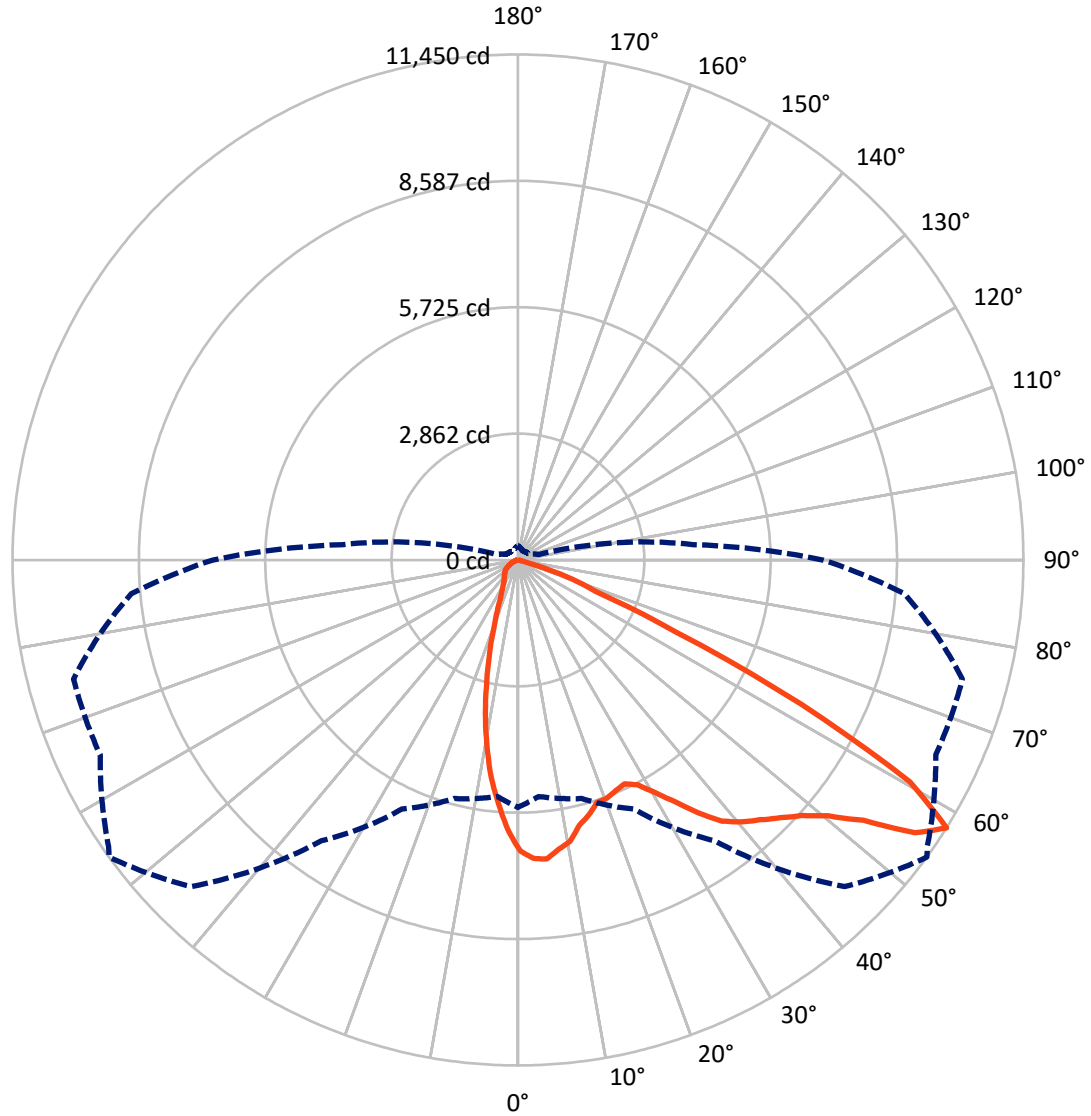
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	2115.1	0.0	2115.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	12851.9	0.0	12851.9
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	14967.0	0.0	14967.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	551.7	3.7
10°-20°	1177.9	7.9
20°-30°	1561.0	10.4
30°-40°	2268.6	15.2
40°-50°	3364.0	22.5
50°-60°	4206.5	28.1
60°-70°	1659.3	11.1
70°-80°	165.2	1.1
80°-90°	12.8	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°	14967.0	100.0
0°-180°	14967.0	100.0

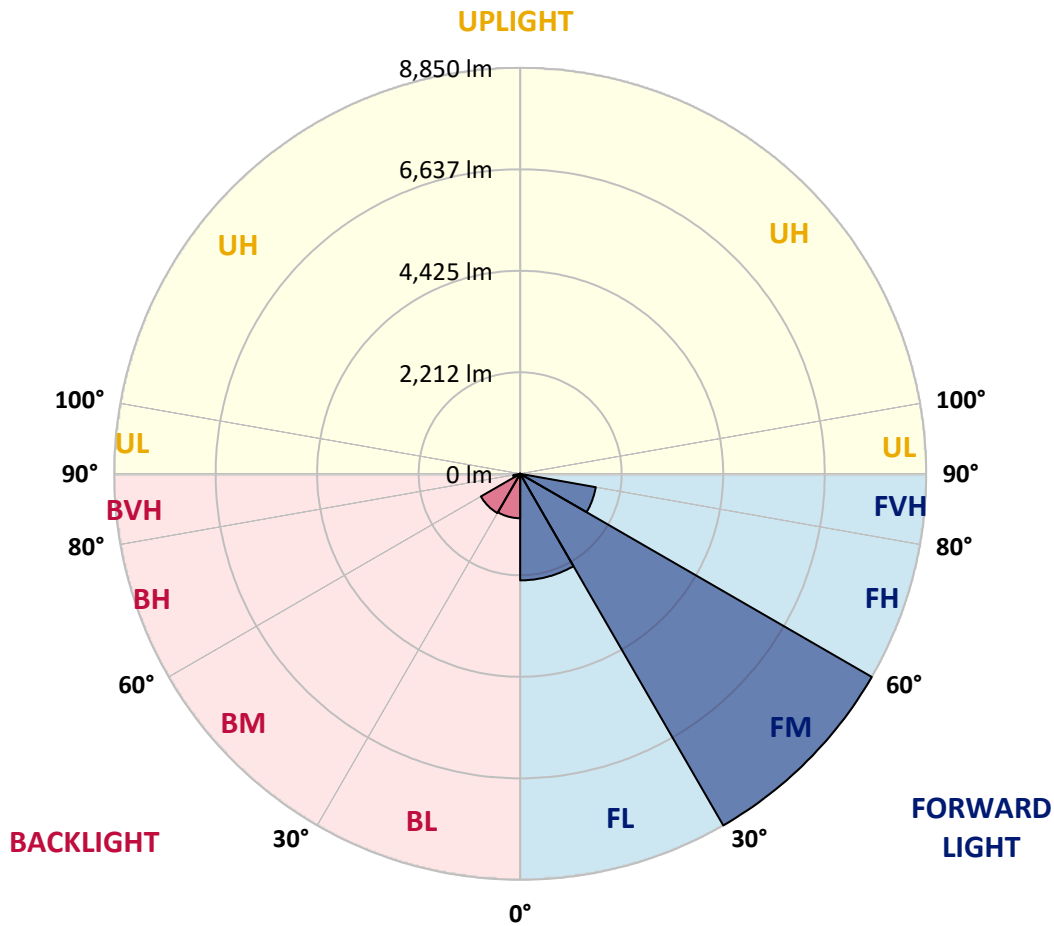


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2323.3	15.5			
FM (30°-60°)	8850.0	59.1			
FH (60°-80°)	1672.8	11.2			G1/1800
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	967.3	6.5	B2/1000		
BM (30°-60°)	989.1	6.6	B1/1000		
BH (60°-80°)	151.7	1.0	B1/500		G1/500
BVH (80°-90°)	7.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6593.2	6593.2	6593.2	6593.2	6593.2	6593.2	6593.2	6593.2	6593.2	6593.2	6593.2
2.5°	6977.2	6904.9	6910.4	6885.4	6852.0	6877.0	6768.5	6793.5	6790.8	6643.3	6545.9
5°	6801.9	6879.8	6799.1	6865.9	6801.9	6871.5	6804.7	6754.6	6673.9	6565.3	6384.4
7.5°	6504.1	6429.0	6451.2	6534.7	6548.6	6704.5	6621.0	6685.0	6651.6	6437.3	6189.6
10°	5905.7	5889.0	6000.4	6111.7	6248.1	6415.0	6479.1	6442.9	6417.8	6337.1	6005.9
12.5°	5446.5	5493.8	5491.1	5674.7	5905.7	6000.4	6167.4	6161.8	6300.9	6150.7	5833.4
15°	5009.6	5034.6	5151.5	5265.6	5521.7	5791.6	5997.6	6025.4	6192.4	6086.6	5699.8
17.5°	4742.4	4706.2	4798.1	4934.4	5196.0	5549.5	5777.7	5844.5	6072.7	6050.5	5546.7
20°	4478.0	4478.0	4553.2	4714.6	4953.9	5351.9	5758.2	5738.8	6072.7	6008.7	5382.5
22.5°	4388.9	4433.5	4453.0	4575.4	4859.3	5201.6	5674.7	5710.9	6120.0	5989.2	5310.2
25°	4511.4	4453.0	4458.5	4555.9	4823.1	5129.3	5613.5	5694.2	6206.3	6086.6	5251.7
27.5°	4530.9	4589.3	4606.0	4672.8	4850.9	5151.5	5766.6	5930.8	6420.6	6314.9	5268.4
30°	4700.7	4759.1	4756.3	4870.4	4992.9	5332.4	6108.9	6142.3	6863.1	6601.5	5371.4
32.5°	4906.6	4967.8	4987.3	5120.9	5218.3	5663.6	6526.4	6612.6	7288.9	7052.4	5641.3
35°	5162.7	5140.4	5229.4	5363.0	5571.8	6147.9	7035.7	7180.4	7748.2	7636.8	5919.7
37.5°	5482.7	5454.9	5541.2	5758.2	6042.1	6721.2	7506.0	7600.6	8082.1	8179.5	6434.5
40°	5708.1	5719.3	5980.9	6273.1	6573.7	7266.7	7803.8	7895.7	8315.9	8686.1	6824.2
42.5°	6083.9	6153.4	6467.9	6824.2	7138.7	7675.8	8045.9	8135.0	8424.4	9092.4	7350.2
45°	6629.3	6598.7	6946.6	7344.6	7692.5	8101.6	8332.6	8302.0	8488.5	9495.9	7681.4
47.5°	7330.7	7336.3	7567.3	7906.8	8268.6	8471.8	8652.7	8544.1	8622.0	9921.8	8123.9
50°	7809.4	7851.1	8037.6	8385.5	8566.4	8878.1	9109.1	9042.3	9017.2	10177.8	8402.2
52.5°	7931.8	8057.1	8157.3	8591.4	9014.5	9507.1	9802.1	9944.0	9498.7	10264.1	8755.6
55°	7007.8	7119.2	7472.6	8068.2	9184.2	10503.4	10909.8	10912.5	10127.7	10648.1	9003.3
57.5°	5602.4	5377.0	5594.0	6225.8	7764.9	10461.7	11449.7	11318.9	10442.2	10422.7	8789.0
60°	3874.1	3818.4	3832.3	4082.8	5374.2	8321.5	10202.8	10372.6	9615.6	9033.9	6957.8
62.5°	3069.8	3022.4	2961.2	2933.4	3336.9	5184.9	7197.1	7436.4	6724.0	5858.4	4124.6
65°	2404.6	2376.8	2385.1	2496.4	2493.7	2941.7	3935.3	3837.9	3072.5	2271.0	1296.9
67.5°	1622.5	1664.3	1697.7	2034.4	2207.0	2048.4	1900.9	1845.2	999.1	420.2	286.7
70°	912.9	918.4	954.6	1271.9	1675.4	1589.2	1310.8	1310.8	498.2	153.1	164.2
72.5°	498.2	481.5	448.1	548.3	745.9	757.0	584.5	509.3	147.5	100.2	91.8
75°	242.1	239.3	205.9	169.8	161.4	133.6	103.0	94.6	66.8	64.0	55.7
77.5°	50.1	47.3	25.0	25.0	27.8	30.6	39.0	39.0	47.3	47.3	39.0
80°	0.0	0.0	2.8	11.1	19.5	27.8	33.4	33.4	39.0	39.0	30.6
82.5°	0.0	0.0	2.8	8.3	16.7	25.0	30.6	33.4	39.0	41.7	33.4
85°	0.0	0.0	0.0	5.6	13.9	19.5	16.7	16.7	13.9	11.1	5.6
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°	6593.2	6593.2	6593.2	6593.2	6593.2	6593.2	6593.2	6593.2	6593.2	6593.2	6593.2
2.5°	6495.8	6490.2	6362.2	6289.8	6159.0	6044.9	5953.1	5886.3	5886.3	5844.5	5805.5
5°	6312.1	6264.8	5992.0	5816.7	5569.0	5385.3	5260.1	5162.7	5009.6	5051.3	4887.1
7.5°	6083.9	5964.2	5602.4	5335.2	4992.9	4731.3	4464.1	4227.5	3999.3	3896.3	3952.0
10°	5838.9	5630.2	5143.2	4720.1	4294.3	3815.6	3503.9	3125.4	2891.6	2877.7	2816.5
12.5°	5580.1	5343.6	4750.8	4166.3	3606.9	3030.8	2554.9	2201.4	2042.8	1867.5	1900.9
15°	5385.3	5034.6	4313.8	3609.7	2866.6	2284.9	1806.2	1533.5	1383.2	1341.5	1327.5
17.5°	5173.8	4798.1	3868.5	3016.9	2248.7	1644.8	1299.7	1168.9	1110.5	1110.5	1102.1
20°	4953.9	4530.9	3426.0	2465.8	1686.6	1227.3	1040.9	999.1	996.3	993.6	993.6
22.5°	4809.2	4224.7	3025.2	1959.3	1271.9	982.4	904.5	887.8	898.9	932.3	932.3
25°	4656.1	3929.7	2582.7	1511.2	985.2	843.3	798.7	809.9	837.7	868.3	857.2
27.5°	4500.3	3737.7	2165.3	1185.6	807.1	737.5	720.8	745.9	776.5	804.3	796.0
30°	4464.1	3531.8	1770.1	898.9	693.0	642.9	654.0	676.3	706.9	718.0	729.2
32.5°	4519.8	3370.3	1450.0	737.5	603.9	590.0	590.0	601.1	620.6	645.7	637.3
35°	4678.4	3278.5	1146.6	640.1	553.8	539.9	537.1	548.3	559.4	567.8	559.4
37.5°	4920.5	3206.1	937.9	567.8	520.4	498.2	492.6	489.8	501.0	503.7	509.3
40°	5229.4	3245.1	796.0	523.2	487.0	462.0	445.3	445.3	445.3	453.6	456.4
42.5°	5563.4	3298.0	687.4	498.2	456.4	425.8	409.1	403.5	409.1	420.2	417.5
45°	5914.1	3400.9	617.8	459.2	428.6	389.6	367.4	361.8	375.7	398.0	395.2
47.5°	6242.5	3548.5	565.0	434.2	400.8	364.6	336.8	331.2	356.2	386.9	389.6
50°	6570.9	3804.5	545.5	414.7	381.3	339.5	314.5	308.9	336.8	375.7	384.1
52.5°	6949.4	4080.0	531.6	389.6	359.0	320.1	292.2	286.7	317.3	367.4	370.2
55°	7197.1	4313.8	520.4	345.1	317.3	289.4	267.2	264.4	297.8	342.3	353.5
57.5°	6907.7	3988.2	481.5	300.6	270.0	256.0	236.6	236.6	264.4	306.1	314.5
60°	5237.8	2624.5	342.3	242.1	228.2	219.9	211.5	211.5	233.8	264.4	267.2
62.5°	3067.0	1413.8	219.9	194.8	194.8	186.5	172.6	172.6	194.8	211.5	214.3
65°	910.1	453.6	178.1	167.0	164.2	150.3	136.4	133.6	150.3	158.6	155.9
67.5°	261.6	208.7	147.5	139.2	136.4	114.1	105.8	103.0	105.8	100.2	97.4
70°	155.9	141.9	114.1	116.9	103.0	83.5	75.1	72.4	66.8	58.4	52.9
72.5°	86.3	86.3	83.5	89.1	72.4	55.7	47.3	39.0	30.6	25.0	22.3
75°	52.9	55.7	58.4	61.2	47.3	36.2	30.6	19.5	11.1	5.6	5.6
77.5°	36.2	39.0	41.7	44.5	39.0	33.4	25.0	13.9	2.8	0.0	0.0
80°	27.8	30.6	36.2	39.0	41.7	44.5	33.4	13.9	2.8	0.0	0.0
82.5°	30.6	33.4	41.7	39.0	39.0	39.0	30.6	13.9	2.8	0.0	0.0
85°	5.6	8.3	13.9	13.9	19.5	25.0	19.5	5.6	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)