

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: P531821

Luminaire Tested: **GALN-SA7A-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531821
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-SA7A-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA 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: 13693 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

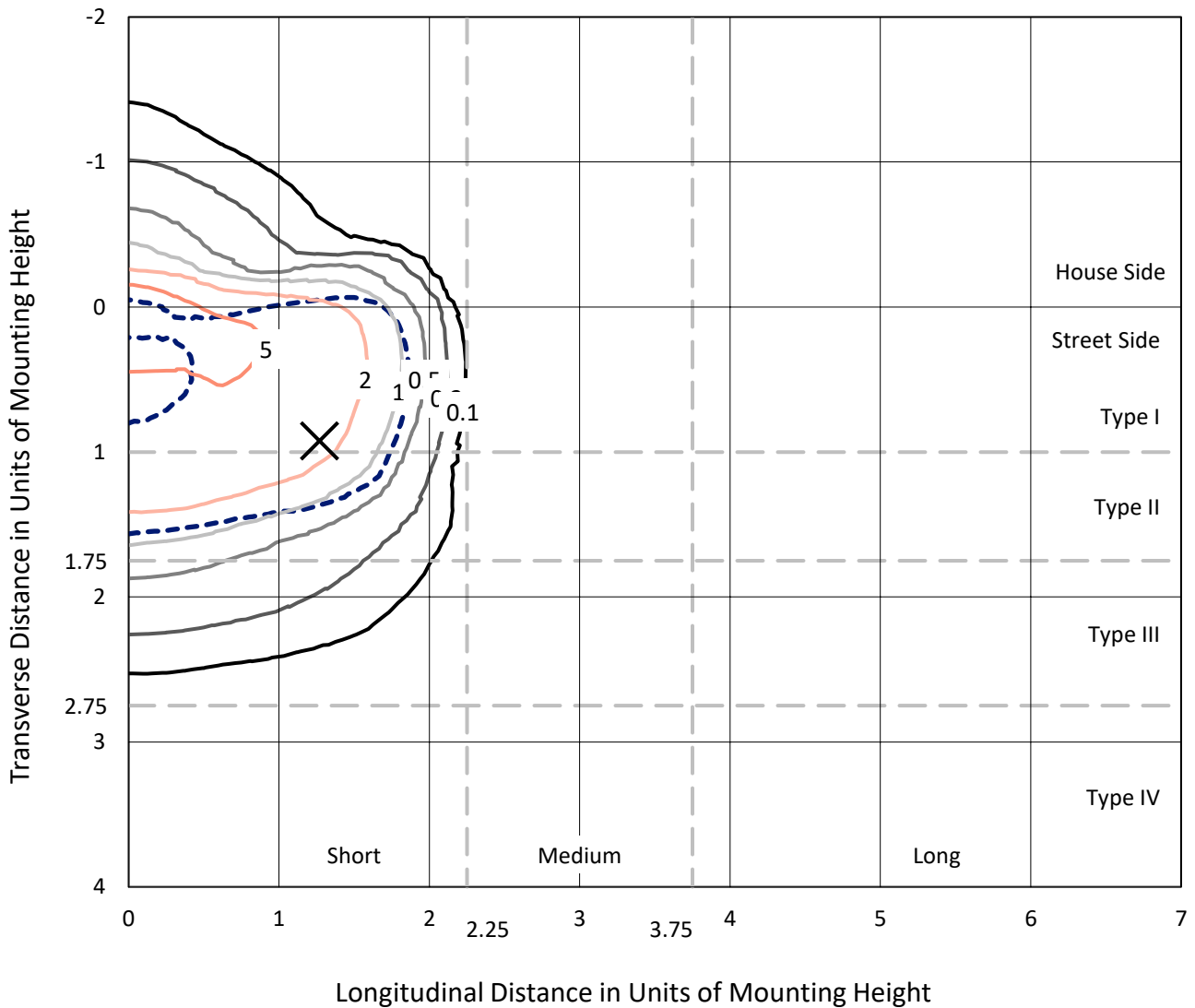
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531821
 CATALOG NUMBER: GALN-SA7A-827-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

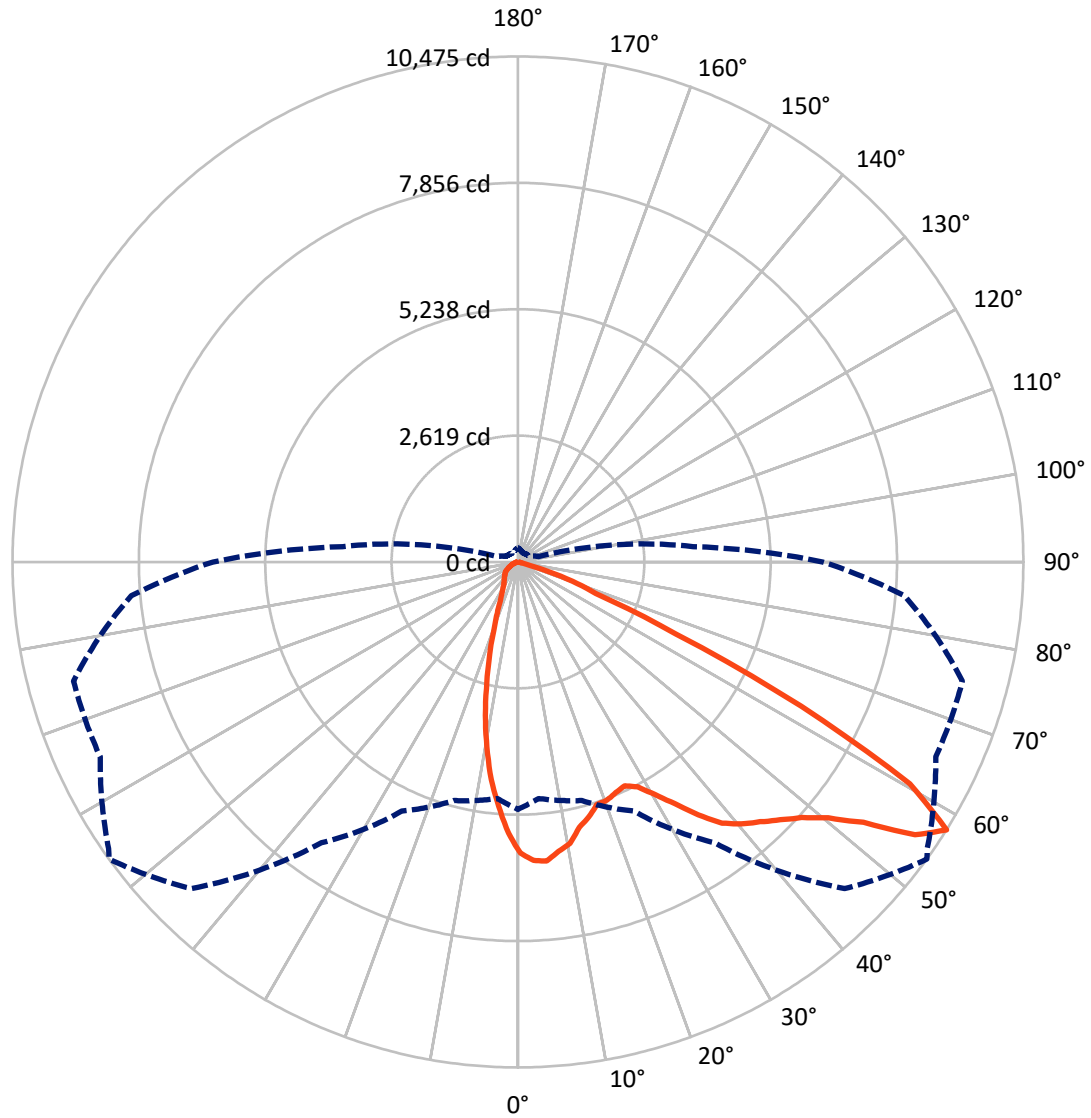
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

REPORT NUMBER: P531821
CATALOG NUMBER: GALN-SA7A-827-U-SL3-GRSBK

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
House Side	Lumens	1935.0	0.0	1935.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11757.9	0.0	11757.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	13693.0	0.0	13693.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.8	3.7
10°-20°	1077.7	7.9
20°-30°	1428.1	10.4
30°-40°	2075.5	15.2
40°-50°	3077.6	22.5
50°-60°	3848.4	28.1
60°-70°	1518.0	11.1
70°-80°	151.1	1.1
80°-90°	11.7	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°	13693.0	100.0
0°-180°	13693.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531821

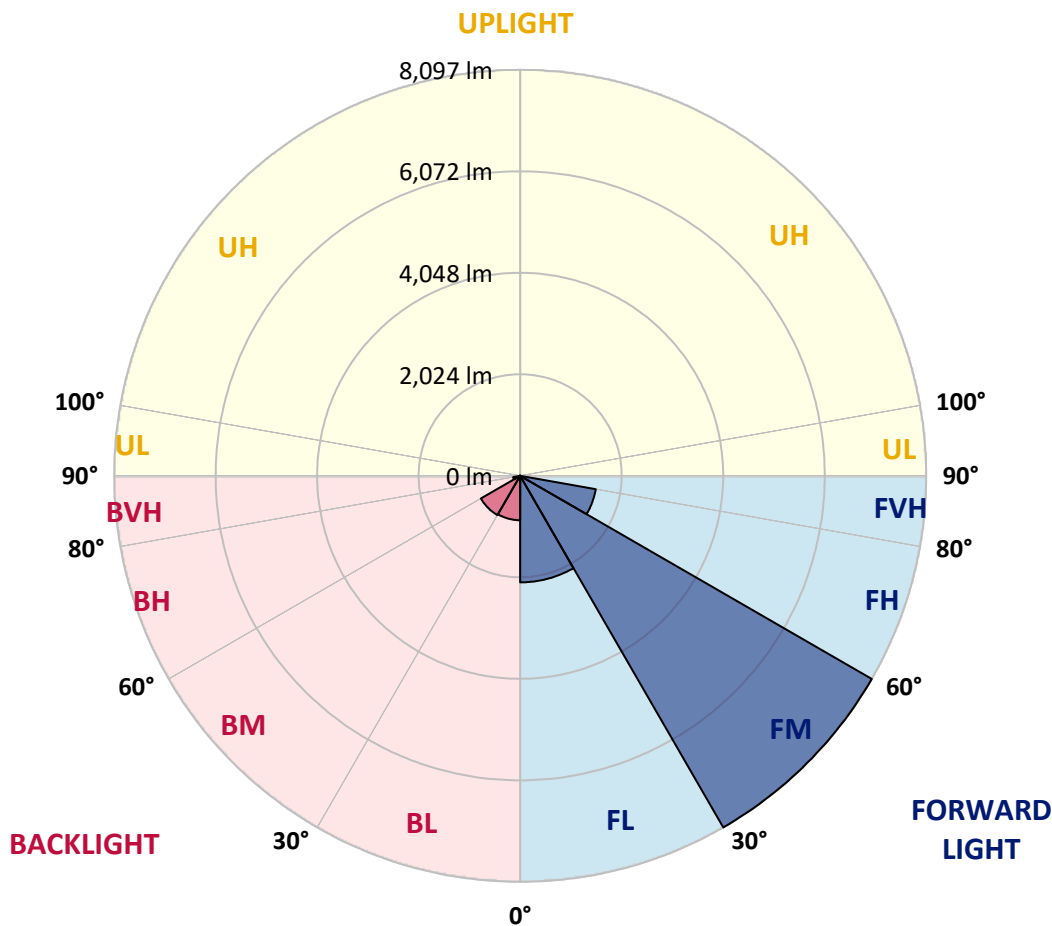
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2125.6	15.5			
FM (30°-60°)	8096.6	59.1			
FH (60°-80°)	1530.4	11.2			G1/1800
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	885.0	6.5	B2/1000		
BM (30°-60°)	904.9	6.6	B1/1000		
BH (60°-80°)	138.8	1.0	B1/500		G1/500
BVH (80°-90°)	6.4	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





REPORT NUMBER: P531821

CATALOG NUMBER: GALN-SA7A-827-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0
2.5°	6383.3	6317.1	6322.2	6299.3	6268.7	6291.7	6192.4	6215.3	6212.7	6077.8	5988.7
5°	6222.9	6294.2	6220.4	6281.5	6222.9	6286.6	6225.5	6179.6	6105.8	6006.5	5841.0
7.5°	5950.5	5881.7	5902.1	5978.5	5991.2	6133.8	6057.4	6116.0	6085.4	5889.4	5662.8
10°	5403.0	5387.8	5489.6	5591.5	5716.2	5869.0	5927.6	5894.5	5871.5	5797.7	5494.7
12.5°	4982.9	5026.2	5023.7	5191.7	5403.0	5489.6	5642.4	5637.3	5764.6	5627.1	5336.8
15°	4583.2	4606.1	4713.0	4817.4	5051.7	5298.6	5487.1	5512.5	5665.3	5568.5	5214.6
17.5°	4338.7	4305.6	4389.7	4514.4	4753.8	5077.1	5285.9	5347.0	5555.8	5535.4	5074.6
20°	4096.8	4096.8	4165.6	4313.3	4532.2	4896.3	5268.1	5250.3	5555.8	5497.2	4924.4
22.5°	4015.4	4056.1	4073.9	4186.0	4445.7	4758.9	5191.7	5224.8	5599.1	5479.4	4858.2
25°	4127.4	4073.9	4079.0	4168.1	4412.6	4692.6	5135.7	5209.5	5678.0	5568.5	4804.7
27.5°	4145.2	4198.7	4214.0	4275.1	4438.0	4713.0	5275.7	5426.0	5874.1	5777.3	4820.0
30°	4300.5	4354.0	4351.5	4455.9	4567.9	4878.5	5588.9	5619.5	6278.9	6039.6	4914.2
32.5°	4489.0	4545.0	4562.8	4685.0	4774.1	5181.5	5970.8	6049.8	6668.5	6452.1	5161.1
35°	4723.2	4702.8	4784.3	4906.5	5097.5	5624.6	6436.8	6569.2	7088.6	6986.8	5415.8
37.5°	5016.0	4990.6	5069.5	5268.1	5527.8	6149.1	6867.1	6953.7	7394.2	7483.3	5886.8
40°	5222.3	5232.4	5471.8	5739.1	6014.1	6648.1	7139.5	7223.6	7608.0	7946.7	6243.3
42.5°	5566.0	5629.7	5917.4	6243.3	6531.0	7022.4	7361.1	7442.5	7707.4	8318.4	6724.5
45°	6065.1	6037.0	6355.3	6719.4	7037.7	7412.0	7623.3	7595.3	7765.9	8687.6	7027.5
47.5°	6706.7	6711.8	6923.1	7233.8	7564.8	7750.6	7916.1	7816.8	7888.1	9077.2	7432.4
50°	7144.6	7182.8	7353.4	7671.7	7837.2	8122.4	8333.7	8272.6	8249.7	9311.5	7687.0
52.5°	7256.7	7371.3	7462.9	7860.1	8247.1	8697.8	8967.7	9097.6	8690.2	9390.4	8010.3
55°	6411.3	6513.2	6836.6	7381.4	8402.5	9609.4	9981.1	9983.7	9265.6	9741.8	8237.0
57.5°	5125.5	4919.3	5117.9	5695.9	7103.9	9571.2	10475.1	10355.4	9553.3	9535.5	8040.9
60°	3544.3	3493.4	3506.1	3735.3	4916.7	7613.1	9334.4	9489.7	8797.1	8265.0	6365.5
62.5°	2808.5	2765.2	2709.2	2683.7	3052.9	4743.6	6584.5	6803.4	6151.6	5359.8	3773.5
65°	2199.9	2174.5	2182.1	2283.9	2281.4	2691.3	3600.3	3511.2	2811.0	2077.7	1186.5
67.5°	1484.4	1522.6	1553.2	1861.3	2019.1	1874.0	1739.1	1688.1	914.1	384.5	262.3
70°	835.2	840.2	873.3	1163.6	1532.8	1453.9	1199.3	1199.3	455.8	140.0	150.2
72.5°	455.8	440.5	409.9	501.6	682.4	692.6	534.7	466.0	134.9	91.7	84.0
75°	221.5	219.0	188.4	155.3	147.7	122.2	94.2	86.6	61.1	58.6	50.9
77.5°	45.8	43.3	22.9	22.9	25.5	28.0	35.6	35.6	43.3	43.3	35.6
80°	0.0	0.0	2.5	10.2	17.8	25.5	30.6	30.6	35.6	35.6	28.0
82.5°	0.0	0.0	2.5	7.6	15.3	22.9	28.0	30.6	35.6	38.2	30.6
85°	0.0	0.0	0.0	5.1	12.7	17.8	15.3	15.3	12.7	10.2	5.1
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



REPORT NUMBER: P531821

CATALOG NUMBER: GALN-SA7A-827-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0	6032.0
2.5°	5942.8	5937.7	5820.6	5754.4	5634.7	5530.3	5446.3	5385.2	5385.2	5347.0	5311.4
5°	5774.8	5731.5	5482.0	5321.6	5094.9	4926.9	4812.3	4723.2	4583.2	4621.4	4471.1
7.5°	5566.0	5456.5	5125.5	4881.1	4567.9	4328.5	4084.1	3867.7	3658.9	3564.7	3615.6
10°	5341.9	5151.0	4705.4	4318.4	3928.8	3490.8	3205.7	2859.4	2645.5	2632.8	2576.8
12.5°	5105.1	4888.7	4346.4	3811.7	3299.9	2772.8	2337.4	2014.0	1868.9	1708.5	1739.1
15°	4926.9	4606.1	3946.6	3302.4	2622.6	2090.4	1652.5	1403.0	1265.5	1227.3	1214.5
17.5°	4733.4	4389.7	3539.2	2760.1	2057.3	1504.8	1189.1	1069.4	1015.9	1015.9	1008.3
20°	4532.2	4145.2	3134.4	2255.9	1543.0	1122.9	952.3	914.1	911.5	909.0	909.0
22.5°	4399.8	3865.1	2767.7	1792.5	1163.6	898.8	827.5	812.2	822.4	853.0	853.0
25°	4259.8	3595.2	2362.9	1382.6	901.4	771.5	730.8	740.9	766.4	794.4	784.2
27.5°	4117.2	3419.5	1980.9	1084.7	738.4	674.7	659.5	682.4	710.4	735.9	728.2
30°	4084.1	3231.1	1619.4	822.4	634.0	588.2	598.4	618.7	646.7	656.9	667.1
32.5°	4135.0	3083.4	1326.6	674.7	552.5	539.8	539.8	550.0	567.8	590.7	583.1
35°	4280.2	2999.4	1049.0	585.6	506.7	494.0	491.4	501.6	511.8	519.4	511.8
37.5°	4501.7	2933.2	858.1	519.4	476.1	455.8	450.7	448.1	458.3	460.9	466.0
40°	4784.3	2968.9	728.2	478.7	445.6	422.7	407.4	407.4	407.4	415.0	417.6
42.5°	5089.9	3017.2	628.9	455.8	417.6	389.6	374.3	369.2	374.3	384.5	381.9
45°	5410.7	3111.5	565.3	420.1	392.1	356.5	336.1	331.0	343.7	364.1	361.6
47.5°	5711.1	3246.4	516.9	397.2	366.7	333.6	308.1	303.0	325.9	353.9	356.5
50°	6011.6	3480.7	499.1	379.4	348.8	310.6	287.7	282.6	308.1	343.7	351.4
52.5°	6357.9	3732.7	486.3	356.5	328.5	292.8	267.4	262.3	290.3	336.1	338.6
55°	6584.5	3946.6	476.1	315.7	290.3	264.8	244.4	241.9	272.4	313.2	323.4
57.5°	6319.7	3648.7	440.5	275.0	247.0	234.3	216.4	216.4	241.9	280.1	287.7
60°	4792.0	2401.1	313.2	221.5	208.8	201.1	193.5	193.5	213.9	241.9	244.4
62.5°	2805.9	1293.5	201.1	178.2	178.2	170.6	157.9	157.9	178.2	193.5	196.1
65°	832.6	415.0	163.0	152.8	150.2	137.5	124.8	122.2	137.5	145.1	142.6
67.5°	239.3	191.0	134.9	127.3	124.8	104.4	96.8	94.2	96.8	91.7	89.1
70°	142.6	129.9	104.4	106.9	94.2	76.4	68.7	66.2	61.1	53.5	48.4
72.5°	78.9	78.9	76.4	81.5	66.2	50.9	43.3	35.6	28.0	22.9	20.4
75°	48.4	50.9	53.5	56.0	43.3	33.1	28.0	17.8	10.2	5.1	5.1
77.5°	33.1	35.6	38.2	40.7	35.6	30.6	22.9	12.7	2.5	0.0	0.0
80°	25.5	28.0	33.1	35.6	38.2	40.7	30.6	12.7	2.5	0.0	0.0
82.5°	28.0	30.6	38.2	35.6	35.6	35.6	28.0	12.7	2.5	0.0	0.0
85°	5.1	7.6	12.7	12.7	17.8	22.9	17.8	5.1	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)