

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: P458001

Luminaire Tested: **GALN-SA9B-827-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458001  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9B-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31193 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

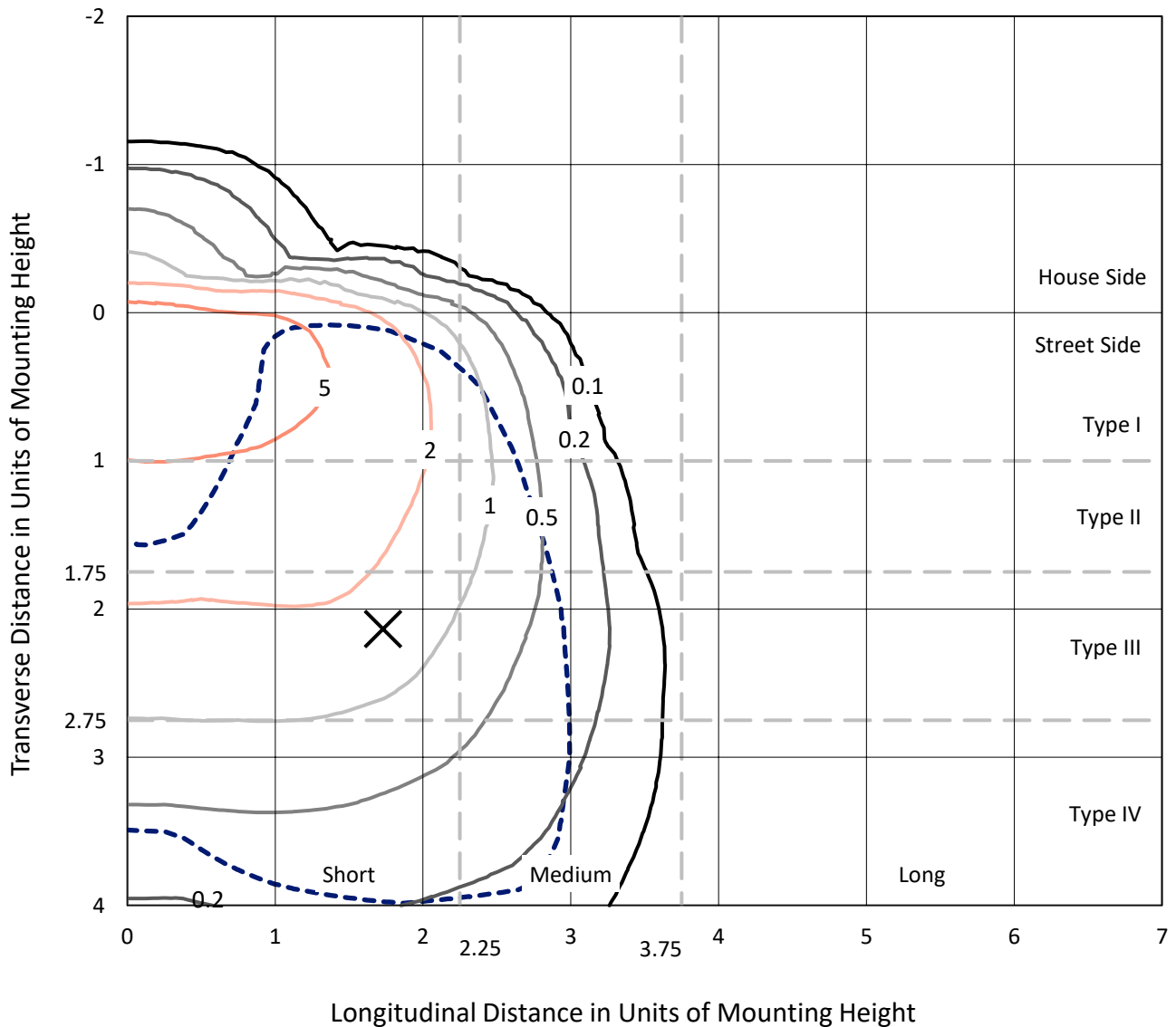
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

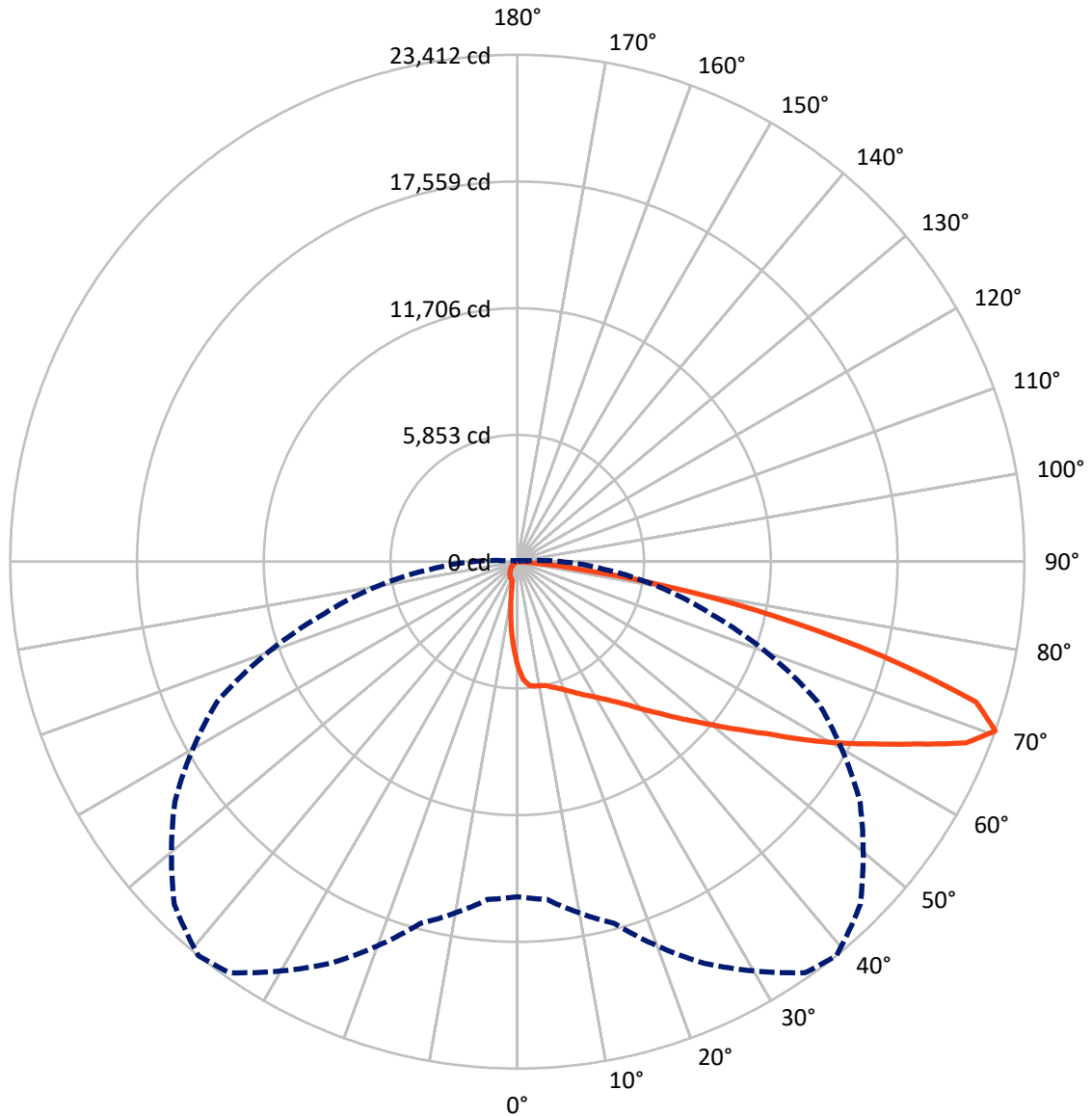
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2033.9	0.0	2033.9
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	29159.1	0.0	29159.1
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	31193.0	0.0	31193.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.1	1.3
10°-20°	1078.8	3.5
20°-30°	1807.3	5.8
30°-40°	2802.9	9.0
40°-50°	4441.8	14.2
50°-60°	6511.0	20.9
60°-70°	8345.6	26.8
70°-80°	5244.1	16.8
80°-90°	546.3	1.8
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°	31193.0	100.0
0°-180°	31193.0	100.0

**Coefficient of Utilization**



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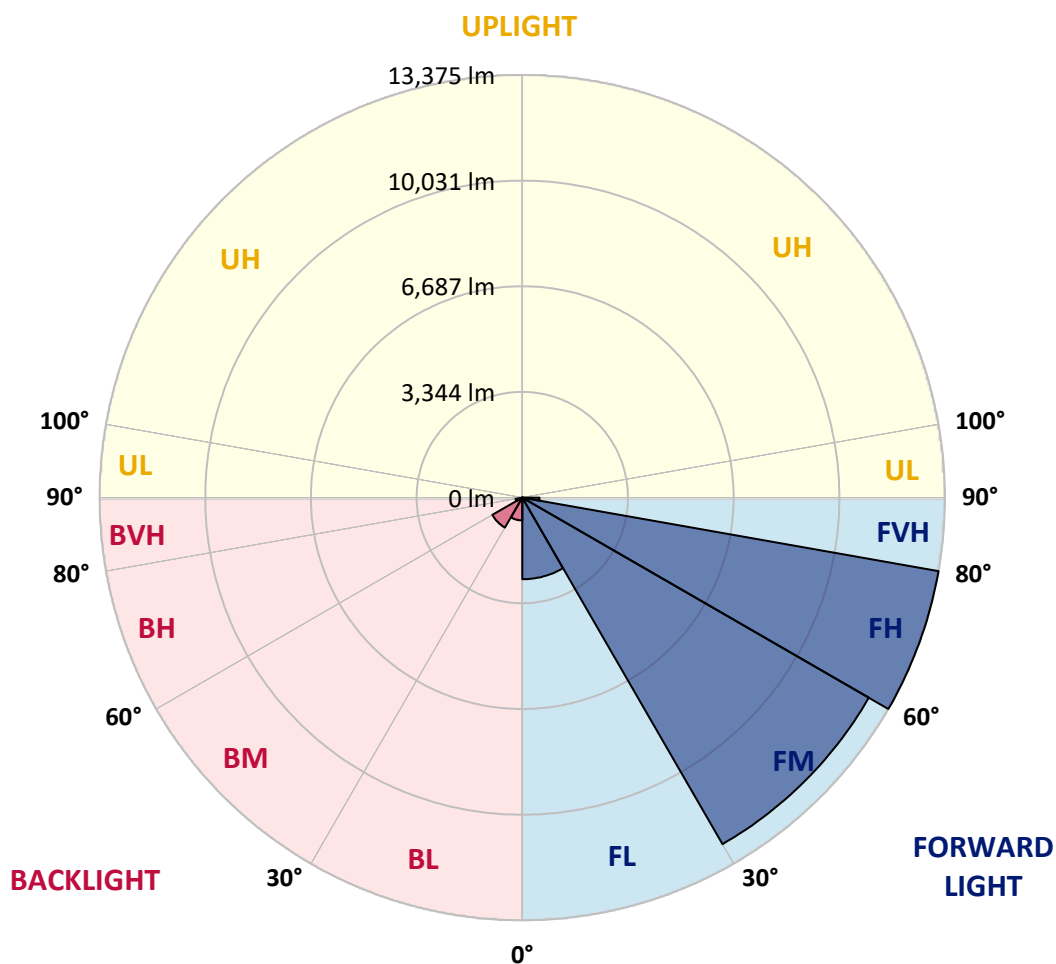
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2581.1	8.3			
FM	(30°-60°)	12661.2	40.6			
FH	(60°-80°)	13374.5	42.9			G5
FVH	(80°-90°)	542.3	1.7			G4/750
BL	(0°-30°)	720.2	2.3	B2/1000		
BM	(30°-60°)	1094.6	3.5	B2/2500		
BH	(60°-80°)	215.1	0.7	B1/500		G1/500
BVH	(80°-90°)	4.0	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2
2.5°	5623.9	5605.0	5579.9	5550.5	5466.7	5452.0	5401.7	5294.8	5166.9	5062.1	4917.5
5°	5890.1	5900.6	5881.7	5829.3	5768.5	5732.9	5670.0	5504.4	5338.8	5127.1	4890.2
7.5°	5950.9	5971.8	5948.8	5898.5	5839.8	5802.0	5751.7	5609.2	5416.4	5175.3	4850.4
10°	5944.6	5969.7	5955.1	5908.9	5860.7	5825.1	5770.6	5657.4	5502.3	5248.7	4863.0
12.5°	5934.1	5967.6	5965.5	5942.5	5902.7	5875.4	5841.9	5741.3	5596.6	5355.6	4932.2
15°	5904.8	5946.7	5984.4	6003.3	6005.4	6005.4	5963.4	5856.5	5718.2	5496.0	5022.3
17.5°	5917.3	5965.5	6059.9	6114.4	6152.1	6147.9	6103.9	5988.6	5835.6	5640.6	5116.6
20°	5994.9	6059.9	6191.9	6300.9	6338.7	6326.1	6267.4	6133.2	5959.3	5764.3	5208.8
22.5°	6185.6	6244.3	6409.9	6537.8	6565.0	6531.5	6447.6	6265.3	6108.1	5898.5	5319.9
25°	6470.7	6539.9	6692.9	6789.3	6789.3	6770.4	6653.1	6439.3	6275.8	6085.0	5464.6
27.5°	6816.6	6875.3	7026.2	7112.1	7061.8	7007.3	6889.9	6632.1	6474.9	6319.8	5638.5
30°	7166.6	7204.3	7363.7	7401.4	7349.0	7279.8	7154.0	6896.2	6757.9	6638.4	5890.1
32.5°	7497.8	7579.6	7711.6	7703.2	7632.0	7598.4	7483.1	7208.5	7131.0	7118.4	6242.2
35°	7829.0	7891.9	8009.3	8038.6	7975.7	7969.4	7885.6	7682.3	7684.4	7766.1	6791.4
37.5°	8114.1	8170.7	8309.0	8374.0	8386.6	8418.0	8384.5	8250.3	8441.1	8665.3	7518.8
40°	8353.0	8432.7	8608.7	8721.9	8851.9	8967.2	8973.5	9002.8	9386.4	9772.1	8468.3
42.5°	8539.6	8650.7	8906.4	9116.0	9413.7	9560.4	9677.8	9839.2	10484.8	11061.2	9587.6
45°	8782.7	8910.6	9229.2	9558.3	10023.6	10264.7	10428.2	10860.0	11776.0	12562.0	10736.3
47.5°	9185.2	9252.2	9577.1	10057.2	10669.2	11013.0	11331.6	11985.6	13161.5	13865.8	11692.1
50°	9702.9	9746.9	9992.2	10658.7	11451.1	11903.8	12484.5	13253.7	14599.4	14947.4	12232.9
52.5°	10275.2	10289.8	10474.3	11321.1	12327.2	12897.4	13547.2	14496.7	15771.2	15718.8	12591.4
55°	10939.6	10918.7	11075.9	12040.1	13364.8	14016.7	14773.4	15769.1	16787.8	16265.8	12796.8
57.5°	11700.5	11643.9	11796.9	12993.8	14693.8	15473.5	16242.8	16867.4	17575.9	16724.9	12895.3
60°	12497.0	12383.8	12566.2	14064.9	16259.6	16999.5	17638.8	17806.5	18406.0	17089.6	12725.5
62.5°	13132.2	13134.3	13473.8	15205.2	17869.4	18517.1	18856.6	19007.6	19120.8	17010.0	11832.6
65°	14123.6	14157.2	14700.1	16787.8	19732.8	20294.6	20527.2	20036.8	19152.2	16020.6	10491.1
67.5°	15146.5	15253.4	16247.0	18967.7	21885.5	22338.3	22038.5	20235.9	18297.0	13763.1	7954.8
70°	15479.8	15655.9	17292.9	20468.6	23176.7	23411.5	22397.0	19307.3	15295.3	9201.9	4003.6
72.5°	14184.4	14469.5	16691.4	19921.5	22353.0	22149.6	20038.9	16192.5	9723.9	3494.2	1222.0
75°	10002.7	10128.4	13872.1	16525.8	17978.4	17401.9	15242.9	10438.7	3999.4	981.0	419.2
77.5°	5164.8	5104.0	8250.3	10964.8	12821.9	12224.5	9981.7	5403.8	1515.5	408.7	259.9
80°	2670.4	2714.5	3569.7	5745.4	7826.9	7202.2	5322.0	2504.9	807.0	226.4	199.1
82.5°	1496.6	1404.4	2052.1	2509.0	3659.8	2869.6	2041.6	1773.3	352.1	136.2	188.7
85°	272.5	285.1	1125.6	1356.2	1270.2	807.0	658.2	1184.3	102.7	75.5	132.1
87.5°	4.2	4.2	218.0	389.9	247.3	113.2	207.5	169.8	21.0	29.3	23.1
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°	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2
2.5°	4844.1	4764.5	4615.6	4468.9	4282.4	4129.3	4026.6	3919.7	3810.7	3819.1	3844.3
5°	4760.3	4621.9	4328.5	4018.3	3720.6	3452.3	3188.2	2951.3	2854.9	2766.9	2771.1
7.5°	4676.4	4481.5	4051.8	3565.5	3114.8	2657.9	2326.7	2054.2	1909.6	1800.6	1769.1
10°	4638.7	4380.9	3798.2	3129.5	2490.2	1991.3	1565.8	1343.6	1171.7	1117.2	1131.9
12.5°	4655.5	4330.6	3569.7	2735.4	1974.5	1387.6	1090.0	976.8	939.1	932.8	928.6
15°	4686.9	4294.9	3345.4	2299.4	1450.5	1031.3	916.0	895.0	890.8	886.7	888.8
17.5°	4728.8	4263.5	3106.4	1890.7	1113.0	901.3	867.8	857.3	855.2	855.2	855.2
20°	4770.8	4227.9	2840.2	1526.0	928.6	851.0	830.1	823.8	821.7	821.7	819.6
22.5°	4819.0	4196.4	2569.8	1199.0	855.2	815.4	796.5	792.3	790.2	788.1	788.1
25°	4888.1	4156.6	2282.7	981.0	809.1	781.9	763.0	758.8	756.7	748.3	750.4
27.5°	4980.4	4127.2	1987.1	846.8	767.2	739.9	727.4	721.1	716.9	710.6	712.7
30°	5106.1	4102.1	1672.7	773.5	719.0	695.9	683.3	679.1	674.9	668.7	668.7
32.5°	5324.1	4112.6	1341.5	714.8	674.9	647.7	635.1	630.9	626.7	620.4	620.4
35°	5651.1	4173.4	1073.2	664.5	622.5	595.3	582.7	582.7	576.4	568.0	566.0
37.5°	6185.6	4328.5	861.5	616.3	572.2	547.1	532.4	528.2	521.9	509.4	507.3
40°	6816.6	4569.5	725.3	568.0	526.1	501.0	488.4	475.8	459.0	446.5	444.4
42.5°	7608.9	4816.9	628.8	519.8	482.1	459.0	444.4	423.4	398.3	381.5	379.4
45°	8434.8	5043.3	563.9	475.8	440.2	421.3	404.6	371.0	339.6	318.6	316.5
47.5°	9051.0	5085.2	511.5	433.9	404.6	385.7	362.6	320.7	278.8	259.9	253.6
50°	9342.4	4881.9	457.0	392.0	368.9	348.0	318.6	270.4	224.3	201.2	197.0
52.5°	9445.1	4529.7	412.9	354.2	333.3	308.1	272.5	218.0	176.1	153.0	150.9
55°	9403.2	4085.3	373.1	318.6	291.4	262.0	226.4	174.0	130.0	111.1	106.9
57.5°	9183.1	3519.4	333.3	283.0	249.4	220.1	180.3	130.0	88.0	71.3	69.2
60°	8589.9	2748.0	293.5	243.1	211.7	180.3	142.5	92.2	54.5	39.8	39.8
62.5°	7587.9	2039.5	255.7	203.3	178.2	144.6	100.6	58.7	29.3	21.0	18.9
65°	6340.7	1505.0	213.8	171.9	148.8	113.2	71.3	35.6	14.7	6.3	4.2
67.5°	4424.9	928.6	178.2	140.4	121.6	81.7	44.0	14.7	6.3	0.0	0.0
70°	2010.2	442.3	136.2	106.9	92.2	58.7	23.1	8.4	4.2	0.0	0.0
72.5°	624.6	232.7	96.4	77.6	62.9	37.7	12.6	6.3	4.2	0.0	0.0
75°	289.3	148.8	60.8	41.9	35.6	18.9	8.4	4.2	2.1	0.0	0.0
77.5°	215.9	115.3	35.6	23.1	18.9	12.6	6.3	4.2	2.1	0.0	0.0
80°	188.7	58.7	21.0	14.7	10.5	8.4	4.2	2.1	0.0	0.0	0.0
82.5°	169.8	29.3	12.6	8.4	6.3	4.2	2.1	2.1	0.0	0.0	0.0
85°	92.2	16.8	8.4	6.3	4.2	2.1	2.1	0.0	0.0	0.0	0.0
87.5°	16.8	8.4	6.3	4.2	4.2	2.1	2.1	2.1	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)