

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: P456868

Luminaire Tested: **GALN-SA8A-830-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8A-830-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24274 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

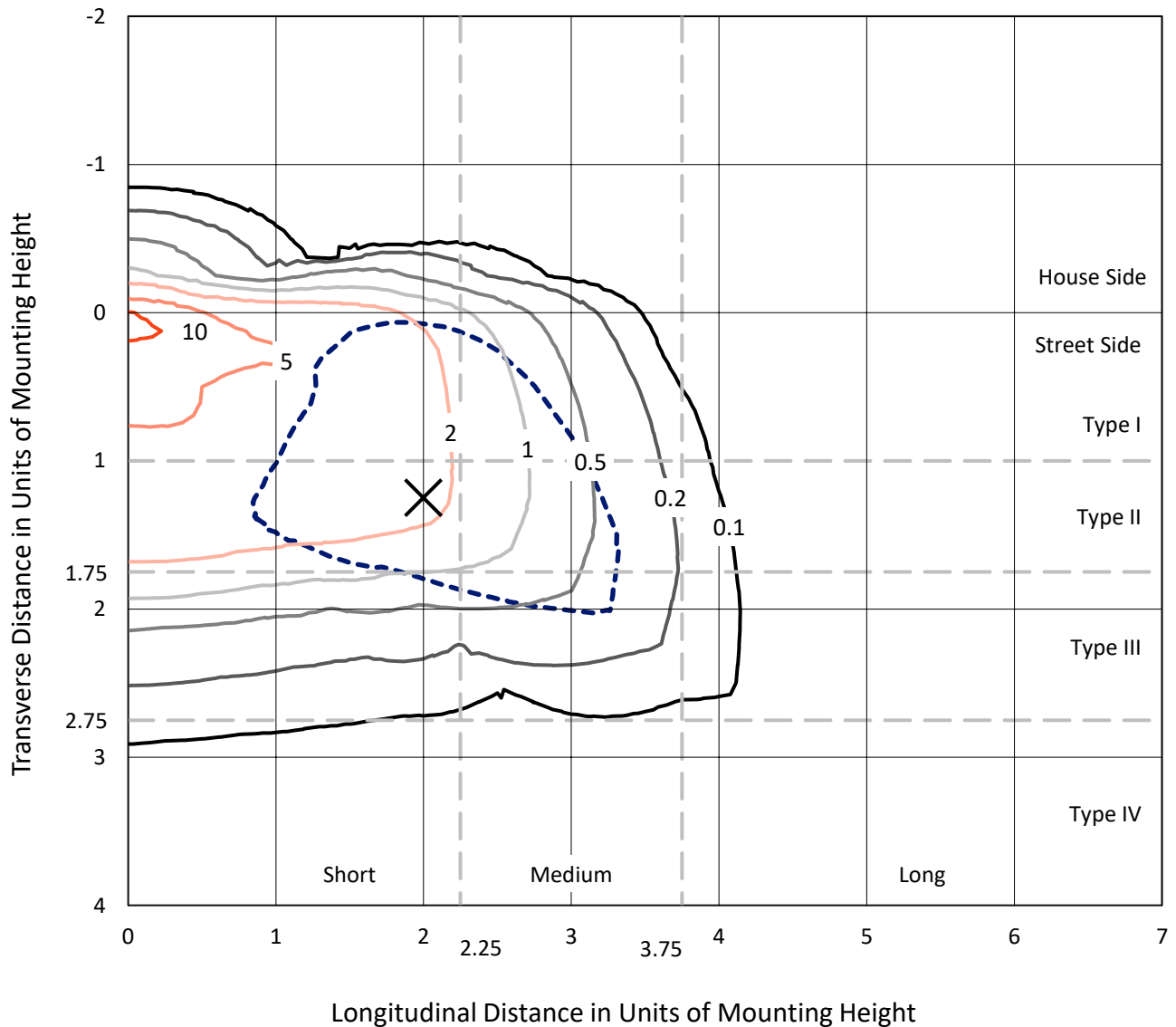
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

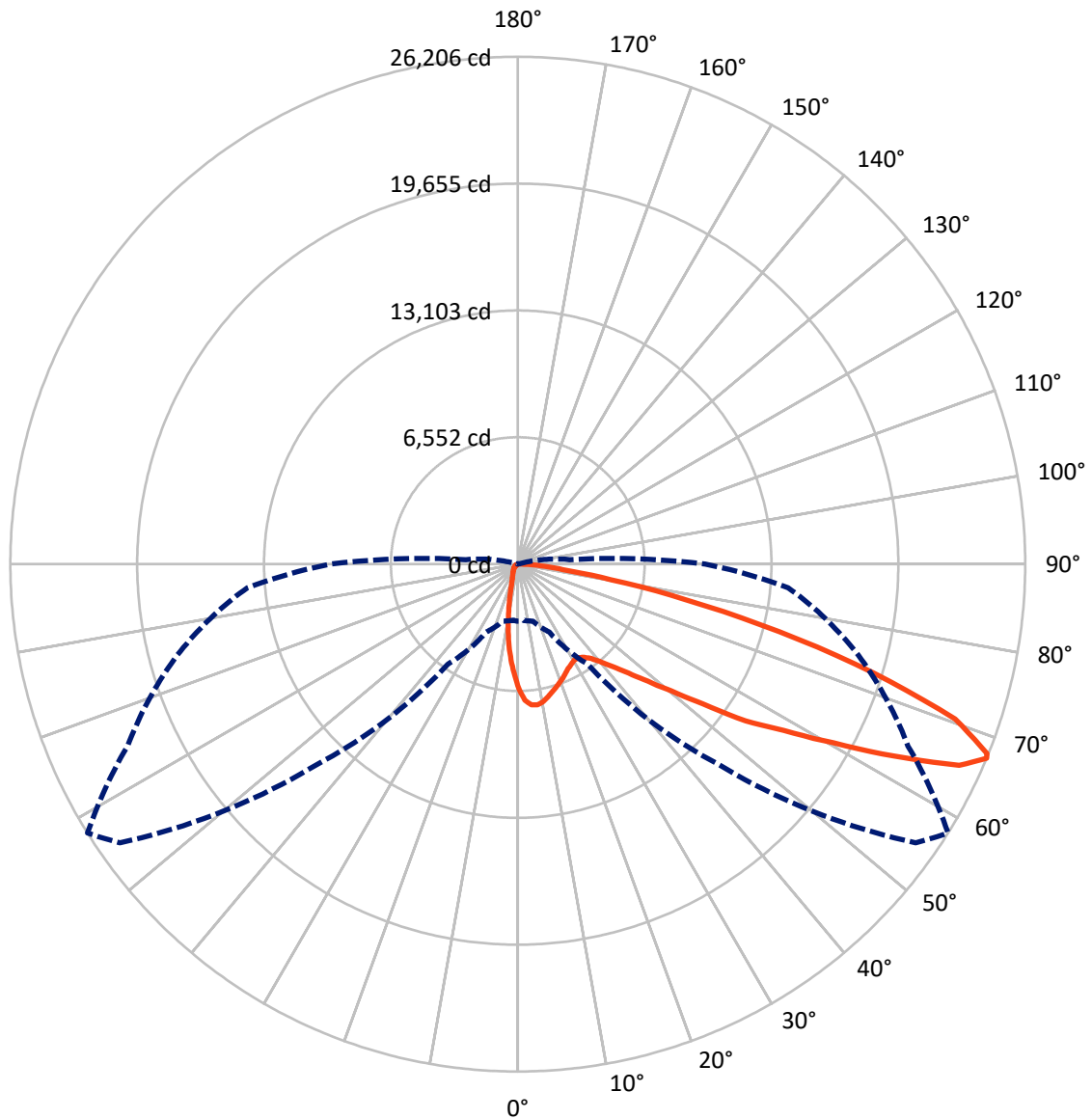
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1751.8	0.0	1751.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	22522.2	0.0	22522.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	24274.0	0.0	24274.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	522.2	2.2
10°-20°	1127.8	4.6
20°-30°	1528.2	6.3
30°-40°	2119.5	8.7
40°-50°	3380.4	13.9
50°-60°	5843.3	24.1
60°-70°	6674.8	27.5
70°-80°	2782.8	11.5
80°-90°	295.1	1.2
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°	24274.0	100.0
0°-180°	24274.0	100.0

**Coefficient of Utilization**



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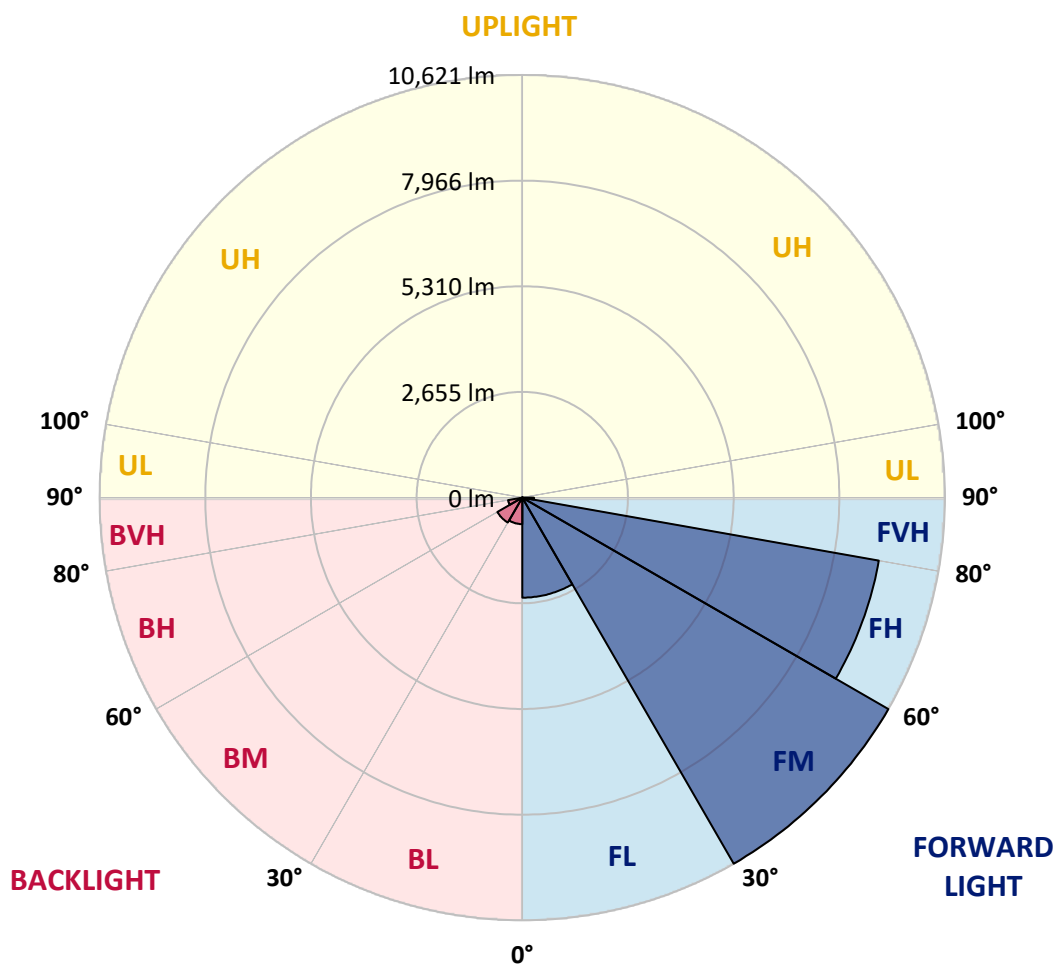
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2512.9	10.4			
FM (30°-60°)	10620.9	43.8			
FH (60°-80°)	9095.5	37.5			G4/12000
FVH (80°-90°)	292.9	1.2			G3/500
BL (0°-30°)	665.2	2.7	B2/1000		
BM (30°-60°)	722.3	3.0	B1/1000		
BH (60°-80°)	362.1	1.5	B1/500		G1/500
BVH (80°-90°)	2.1	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6434.8	6434.8	6434.8	6434.8	6434.8	6434.8	6434.8	6434.8	6434.8	6434.8	6434.8
2.5°	7468.1	7479.4	7437.3	7403.2	7315.6	7221.5	7096.6	7030.1	6916.6	6720.3	6502.9
5°	7643.3	7657.9	7651.4	7643.3	7609.2	7518.4	7359.4	7301.0	7133.9	6814.4	6421.8
7.5°	7254.0	7307.5	7314.0	7377.2	7437.3	7445.4	7385.4	7341.6	7187.5	6812.8	6277.5
10°	6738.1	6773.8	6825.7	6898.7	7043.1	7163.1	7221.5	7215.0	7125.8	6762.5	6108.8
12.5°	6217.5	6236.9	6316.4	6441.3	6618.1	6822.5	6978.2	7009.0	7010.7	6702.5	5967.7
15°	5769.8	5761.6	5823.3	5967.7	6215.8	6472.1	6751.1	6799.8	6877.6	6644.1	5836.3
17.5°	5386.9	5429.1	5438.9	5597.8	5826.5	6159.1	6514.3	6600.3	6756.0	6593.8	5727.6
20°	5150.1	5172.8	5193.9	5283.1	5489.1	5839.5	6292.1	6410.5	6642.4	6548.4	5605.9
22.5°	5080.4	5095.0	5077.1	5104.7	5250.7	5562.1	6050.4	6207.7	6533.8	6506.2	5507.0
25°	5133.9	5148.5	5106.3	5073.9	5124.2	5336.7	5816.8	6008.2	6446.2	6498.1	5432.4
27.5°	5263.7	5291.2	5232.8	5174.5	5145.3	5215.0	5633.5	5855.7	6386.2	6537.0	5398.3
30°	5466.4	5482.7	5438.9	5367.5	5301.0	5231.2	5537.8	5750.3	6369.9	6627.8	5395.1
32.5°	5687.0	5721.1	5696.8	5649.7	5563.8	5398.3	5565.4	5753.5	6408.9	6759.2	5435.6
35°	5959.5	5998.5	6021.2	6011.5	5901.1	5695.1	5740.6	5899.5	6512.7	7000.9	5545.9
37.5°	6227.2	6261.3	6389.4	6433.2	6335.9	6141.2	6081.2	6186.6	6741.4	7317.2	5745.4
40°	6533.8	6579.2	6759.2	6926.3	6879.3	6674.9	6564.6	6652.2	7091.8	7794.1	6123.4
42.5°	6827.4	6908.5	7182.6	7477.8	7521.6	7292.9	7219.9	7249.1	7610.8	8480.3	6650.6
45°	7244.2	7320.5	7674.1	8074.7	8280.7	8102.3	8027.7	8022.8	8322.9	9445.4	7505.4
47.5°	7846.0	7914.2	8331.0	8726.8	9093.4	9117.7	8976.6	9025.3	9218.3	10574.4	8553.3
50°	8584.1	8744.7	9018.8	9430.8	9920.7	10316.5	10360.3	10295.4	10460.8	11881.8	9812.0
52.5°	9656.3	9717.9	9969.3	10308.4	10882.6	11554.1	12074.8	11985.6	11933.7	13127.5	11083.7
55°	10456.0	10538.7	10929.6	11395.2	12237.0	13122.7	14251.6	14282.5	13627.1	14324.6	12327.9
57.5°	10214.3	10340.8	10932.9	11868.8	13719.6	15338.4	16178.7	16199.8	15194.1	15487.7	13732.6
60°	8973.4	9033.4	9881.7	11130.8	13846.1	17739.1	18911.9	18741.6	16788.6	16788.6	14973.5
62.5°	6363.4	6457.5	7145.3	8983.1	12504.7	18572.9	22185.3	21833.3	18984.9	18032.7	15713.1
65°	4066.6	3975.7	4431.5	5670.8	9315.6	17341.7	25035.3	25056.4	21051.4	18530.7	15309.2
67°	2945.7	2910.0	3041.4	3876.8	6316.4	14577.7	25095.3	26206.4	22238.8	18216.0	14018.1
67.5°	2694.3	2721.9	2817.6	3497.2	5738.9	13265.4	24822.8	26138.3	22506.4	18026.2	13550.9
70°	2042.2	1995.2	2099.0	2473.7	3440.4	8368.3	21353.1	23972.8	22173.9	16143.0	10827.4
72.5°	1502.1	1497.2	1641.6	2022.7	2648.9	4457.5	16029.5	19221.7	18115.5	12292.2	6817.6
75°	1013.8	1059.2	1289.6	1690.2	2400.7	2890.6	10928.0	13945.1	12576.0	6979.8	2786.7
77.5°	577.5	580.7	830.5	1357.7	2155.8	2326.1	6475.4	8884.2	6657.0	2321.2	827.3
80°	249.8	274.1	412.0	986.2	1787.5	2060.0	3713.0	4882.5	2692.7	491.5	267.6
82.5°	92.5	108.7	181.7	606.7	1304.2	1696.7	2243.3	2330.9	913.2	173.6	167.1
85°	0.0	3.2	66.5	283.9	679.7	757.5	1498.8	1382.0	403.9	82.7	108.7
87.5°	0.0	0.0	0.0	29.2	89.2	282.2	465.5	519.1	97.3	29.2	26.0
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°	6434.8	6434.8	6434.8	6434.8	6434.8	6434.8	6434.8	6434.8	6434.8	6434.8	6434.8
2.5°	6386.2	6280.7	6016.3	5751.9	5555.6	5391.8	5145.3	5010.6	4939.3	4833.8	4840.3
5°	6225.6	6011.5	5545.9	5064.2	4674.9	4295.3	3841.1	3657.8	3503.7	3416.1	3357.7
7.5°	5987.1	5670.8	4981.4	4339.1	3740.5	3077.1	2579.1	2246.6	2022.7	1940.0	1860.5
10°	5726.0	5305.8	4408.8	3518.3	2687.8	2003.3	1581.5	1276.6	1167.9	1067.3	1077.1
12.5°	5484.3	4973.3	3883.3	2777.0	1883.2	1273.3	992.7	867.8	832.1	820.8	820.8
15°	5286.4	4655.4	3318.8	2087.6	1291.2	914.9	794.8	760.8	747.8	744.5	744.5
17.5°	5075.5	4353.7	2809.5	1542.6	939.2	765.6	725.1	702.4	697.5	694.3	694.3
20°	4887.3	4050.3	2326.1	1148.4	759.1	689.4	663.4	648.8	644.0	640.7	642.3
22.5°	4708.9	3781.1	1871.9	867.8	668.3	627.7	601.8	587.2	577.5	569.4	571.0
25°	4550.0	3521.5	1505.3	710.5	601.8	566.1	540.2	519.1	498.0	488.2	486.6
27.5°	4438.0	3294.5	1172.8	608.3	541.8	502.8	470.4	444.5	416.9	402.3	399.0
30°	4345.6	3064.1	927.8	536.9	481.8	444.5	403.9	366.6	337.4	322.8	316.3
32.5°	4285.6	2845.1	731.6	478.5	431.5	386.1	340.6	303.3	270.9	256.3	253.0
35°	4275.8	2661.8	598.5	429.9	386.1	337.4	290.4	249.8	222.2	207.6	204.4
37.5°	4345.6	2520.7	501.2	390.9	348.7	295.2	243.3	206.0	181.7	170.3	168.7
40°	4532.1	2431.5	434.7	358.5	314.7	256.3	207.6	175.2	150.9	139.5	139.5
42.5°	4887.3	2434.8	390.9	327.7	280.6	219.0	176.8	146.0	124.9	115.2	111.9
45°	5442.1	2545.1	353.6	296.8	248.2	189.8	150.9	120.0	98.9	90.8	90.8
47.5°	6185.0	2764.0	321.2	266.0	219.0	162.2	128.1	97.3	79.5	71.4	71.4
50°	7156.6	3116.0	293.6	240.1	194.7	139.5	103.8	79.5	61.6	55.2	53.5
52.5°	8172.1	3550.7	261.2	217.4	167.1	118.4	84.3	61.6	47.0	42.2	40.6
55°	9292.9	3975.7	230.3	194.7	136.3	98.9	66.5	48.7	34.1	29.2	29.2
57.5°	10423.5	4392.6	193.0	162.2	107.1	73.0	51.9	35.7	22.7	17.8	17.8
60°	11380.6	4527.2	163.8	131.4	81.1	51.9	37.3	22.7	13.0	8.1	8.1
62.5°	11511.9	4073.1	137.9	100.6	58.4	35.7	19.5	13.0	4.9	3.2	3.2
65°	10798.2	3309.1	115.2	76.2	38.9	17.8	8.1	4.9	1.6	0.0	0.0
67°	9675.7	2682.9	94.1	56.8	27.6	11.4	4.9	1.6	0.0	0.0	0.0
67.5°	9388.6	2558.0	90.8	53.5	24.3	9.7	3.2	1.6	0.0	0.0	0.0
70°	7367.5	1915.7	64.9	32.4	14.6	6.5	0.0	0.0	0.0	0.0	0.0
72.5°	4579.1	1083.6	47.0	19.5	9.7	3.2	0.0	0.0	0.0	0.0	0.0
75°	1730.8	379.6	32.4	13.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	538.5	144.4	19.5	9.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	181.7	55.2	13.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	111.9	22.7	8.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	69.7	9.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	3.2	1.6	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)