

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: P457869

Luminaire Tested: **GALN-SA9B-727-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457869  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9B-727-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33777 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

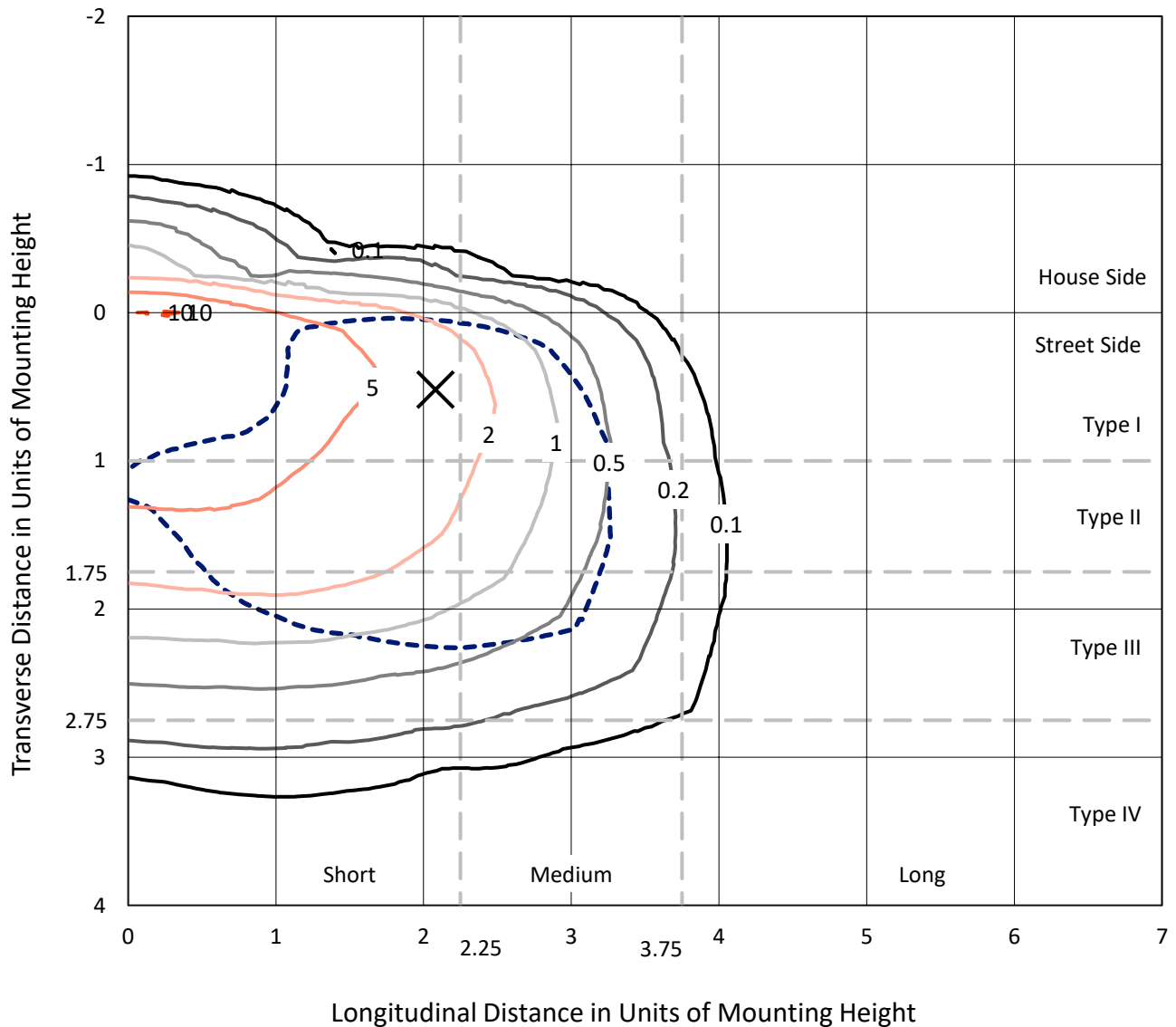
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

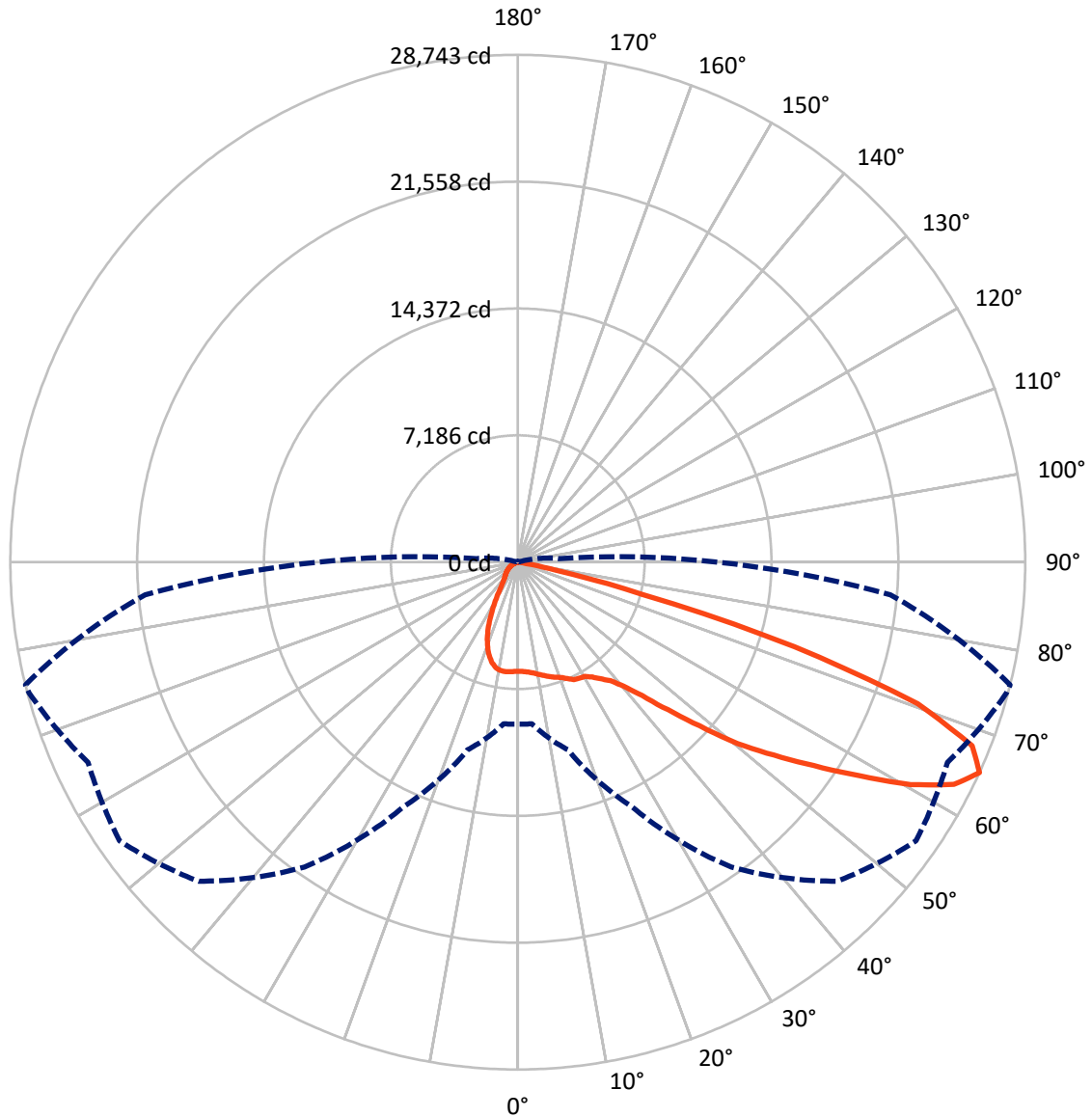
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P457869  
CATALOG NUMBER: GALN-SA9B-727-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P457869

CATALOG NUMBER: GALN-SA9B-727-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2439.4	0.0	2439.4
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	31337.6	0.0	31337.6
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	33777.0	0.0	33777.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	509.0	1.5
10°-20°	1133.3	3.4
20°-30°	1826.2	5.4
30°-40°	3175.4	9.4
40°-50°	5247.1	15.5
50°-60°	8105.7	24.0
60°-70°	9898.2	29.3
70°-80°	3756.6	11.1
80°-90°	125.4	0.4
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°	33777.0	100.0
0°-180°	33777.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P457869

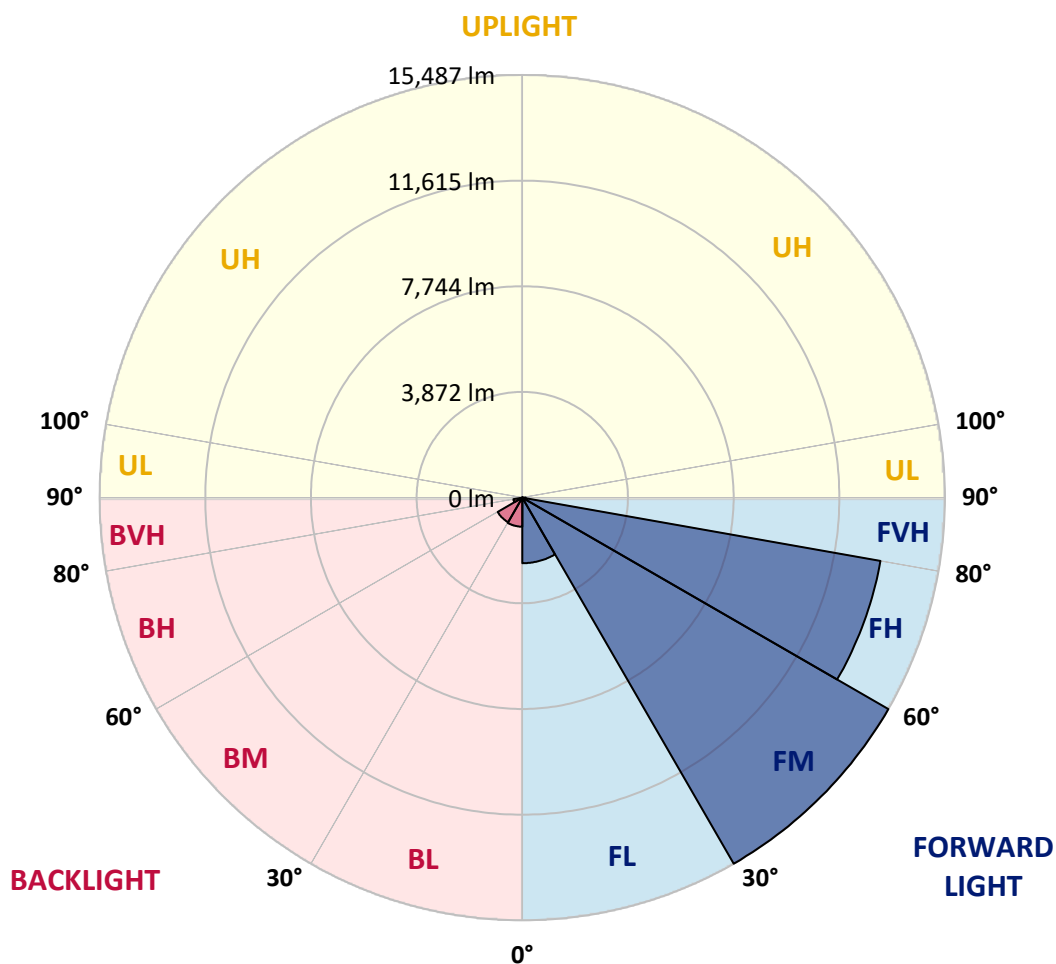
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2402.8	7.1			
FM (30°-60°)	15487.3	45.9			
FH (60°-80°)	13323.9	39.4			G5
FVH (80°-90°)	123.6	0.4			G2/225
BL (0°-30°)	1065.7	3.2	B3/2500		
BM (30°-60°)	1040.9	3.1	B2/2500		
BH (60°-80°)	331.0	1.0	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





REPORT NUMBER: P457869

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6178.9	6178.9	6178.9	6178.9	6178.9	6178.9	6178.9	6178.9	6178.9	6178.9	6178.9
2.5°	5904.6	5907.0	5921.3	5957.1	6012.0	6057.3	6095.4	6157.4	6200.4	6205.1	6219.4
5°	5496.9	5468.2	5496.9	5589.9	5673.3	5799.7	5954.7	6109.7	6248.0	6257.6	6324.4
7.5°	5039.0	5062.8	5108.1	5203.5	5360.9	5554.1	5778.3	6054.9	6317.2	6341.1	6472.2
10°	4574.0	4626.4	4700.3	4845.8	5065.2	5315.6	5620.9	6016.7	6426.9	6460.3	6686.8
12.5°	4144.7	4168.5	4259.2	4454.7	4726.6	5079.5	5501.6	5995.3	6548.5	6589.1	6915.8
15°	3815.6	3846.6	3925.3	4101.8	4404.6	4857.7	5403.8	5988.1	6667.8	6725.0	7144.7
17.5°	3753.6	3772.7	3806.1	3925.3	4190.0	4681.3	5315.6	5985.7	6782.2	6851.4	7357.0
20°	4008.8	3992.1	3958.7	3946.8	4092.2	4545.3	5251.2	6004.8	6891.9	6970.6	7581.1
22.5°	4647.9	4669.3	4473.8	4242.5	4194.8	4523.9	5241.7	6095.4	7066.0	7159.0	7831.5
25°	6004.8	5840.3	5535.0	4981.7	4564.4	4655.0	5349.0	6310.1	7268.7	7371.3	8058.1
27.5°	7504.8	7454.7	6980.2	6069.2	5291.8	4931.7	5539.8	6474.6	7335.5	7440.4	8186.9
30°	8978.6	9038.2	8494.5	7488.1	6348.2	5444.4	5718.6	6536.6	7395.1	7504.8	8351.4
32.5°	10345.1	10416.6	9939.6	8942.8	7593.0	6331.5	6026.3	6777.5	7645.5	7757.6	8625.6
35°	11420.6	11430.1	11070.0	10275.9	8952.4	7409.4	6691.6	7199.6	7984.1	8115.3	8916.6
37.5°	12407.9	12393.6	11971.5	11287.0	10085.1	8480.2	7528.7	7686.1	8370.5	8506.4	9336.3
40°	13140.0	13149.5	13013.6	12369.7	11141.6	9469.8	8191.6	8141.5	9019.1	9231.4	9946.8
42.5°	13628.9	13717.1	13783.9	13457.2	12469.9	10688.5	9209.9	9116.9	10144.7	10321.2	10810.1
45°	14024.7	14182.1	14516.0	14499.3	13745.7	12183.7	10607.4	10416.6	11740.1	11928.5	11909.4
47.5°	14313.3	14473.1	15026.3	15360.2	14945.2	13633.6	12364.9	12200.4	13645.5	13850.6	13123.3
50°	14461.1	14651.9	15357.8	16004.1	15882.4	15031.1	14368.1	14377.7	15946.8	16144.8	14530.3
52.5°	14115.3	14363.4	15534.3	16698.0	16934.1	16368.9	16244.9	16559.7	17995.3	18164.7	15801.4
55°	13011.2	13323.6	15293.4	17289.4	18152.7	17947.6	18376.9	18856.2	20234.6	20344.3	17105.8
57.5°	12312.5	12644.0	14582.8	17792.6	19617.0	19931.8	20611.4	20962.0	22545.4	22824.5	18603.4
60°	11723.4	11983.4	13998.5	17899.9	21105.1	22359.4	23020.0	23382.5	25397.6	25578.8	20251.3
62.5°	10743.3	11041.4	13011.2	17151.1	21853.9	24303.0	25671.9	25509.7	27603.5	27729.9	21262.4
65°	9167.0	9193.2	11008.0	15269.6	21081.2	25564.5	27534.3	26854.7	28657.6	28743.4	21183.7
67.5°	6841.9	7094.6	8468.3	12002.5	17806.9	24486.6	28137.7	26890.5	27992.2	27753.7	19502.5
70°	4407.0	4600.2	5740.1	8322.8	12839.5	20434.9	26136.9	25047.0	24567.7	24038.3	15963.5
72.5°	2034.2	2282.2	3410.2	4755.2	7614.5	14556.5	21217.1	20349.1	17682.9	16376.1	10147.1
75°	887.1	949.1	1683.6	2508.8	3570.0	7698.0	13989.0	12632.0	7986.5	7295.0	4061.2
77.5°	541.3	581.9	882.4	1345.0	1402.2	2933.2	7535.8	5511.2	2468.2	2177.3	1101.8
80°	367.3	412.6	641.5	703.5	479.3	818.0	2828.3	1471.4	498.4	477.0	236.1
82.5°	178.9	226.6	474.6	393.5	207.5	262.3	822.7	314.8	145.5	135.9	83.5
85°	26.2	45.3	267.1	257.6	93.0	62.0	145.5	78.7	50.1	47.7	38.2
87.5°	0.0	0.0	90.6	40.5	9.5	9.5	16.7	16.7	19.1	16.7	19.1
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°	6178.9	6178.9	6178.9	6178.9	6178.9	6178.9	6178.9	6178.9	6178.9	6178.9	6178.9
2.5°	6226.6	6238.5	6193.2	6128.8	6059.7	5990.5	5892.7	5804.5	5752.0	5783.0	5706.7
5°	6338.7	6329.1	6209.9	6014.3	5754.4	5442.0	5132.0	4867.3	4781.4	4652.7	4638.3
7.5°	6493.7	6467.4	6214.7	5766.3	5179.7	4593.0	4020.7	3641.5	3424.5	3240.9	3245.6
10°	6710.7	6634.4	6159.8	5329.9	4364.1	3479.4	2749.6	2248.8	2031.8	1962.7	1907.8
12.5°	6934.9	6787.0	6007.2	4740.9	3398.3	2377.6	1671.7	1366.5	1232.9	1190.0	1185.2
15°	7135.2	6901.5	5740.1	4032.6	2470.6	1519.1	1139.9	1039.8	1023.1	1025.4	1023.1
17.5°	7333.1	6992.1	5370.5	3281.4	1678.9	1089.8	980.1	956.3	963.4	973.0	970.6
20°	7497.7	7011.2	4898.3	2504.0	1187.6	956.3	920.5	915.7	922.9	930.1	930.1
22.5°	7676.5	7025.5	4337.9	1733.7	970.6	889.5	870.4	870.4	880.0	889.5	891.9
25°	7810.1	6946.8	3667.7	1244.8	856.1	825.1	815.6	818.0	827.5	832.3	829.9
27.5°	7831.5	6725.0	2957.1	953.9	777.4	746.4	736.9	746.4	734.5	741.7	736.9
30°	7850.6	6443.6	2236.9	803.7	705.9	658.2	643.9	629.6	620.0	608.1	605.7
32.5°	7910.2	6112.1	1633.6	722.6	639.1	586.6	553.3	512.7	481.7	472.2	469.8
35°	7936.5	5713.9	1199.5	658.2	579.5	522.3	462.6	405.4	360.1	343.4	355.3
37.5°	8036.6	5327.5	930.1	610.5	527.0	455.5	379.2	307.6	264.7	255.2	259.9
40°	8241.7	4907.8	779.8	570.0	481.7	393.5	300.5	231.3	202.7	193.2	190.8
42.5°	8570.8	4490.5	694.0	531.8	436.4	331.5	236.1	181.2	157.4	150.2	150.2
45°	8971.4	4089.8	634.3	491.3	388.7	267.1	186.0	145.5	131.2	126.4	126.4
47.5°	9498.5	3739.3	584.3	450.7	336.2	212.2	150.2	126.4	116.9	119.2	121.6
50°	10032.6	3479.4	529.4	405.4	276.6	174.1	128.8	112.1	109.7	112.1	112.1
52.5°	10435.7	3326.7	455.5	343.4	217.0	145.5	114.5	104.9	102.5	97.8	97.8
55°	10979.4	3293.3	362.5	279.0	171.7	121.6	102.5	95.4	88.2	83.5	81.1
57.5°	11678.1	3331.5	279.0	217.0	133.5	100.2	90.6	78.7	69.2	59.6	59.6
60°	12112.2	3245.6	217.0	166.9	97.8	81.1	69.2	57.2	45.3	38.2	35.8
62.5°	11973.8	2883.2	171.7	124.0	69.2	59.6	45.3	38.2	26.2	19.1	16.7
65°	11260.8	2327.5	138.3	85.9	50.1	35.8	23.8	23.8	11.9	2.4	0.0
67.5°	9856.2	1724.2	109.7	57.2	28.6	16.7	11.9	7.2	0.0	0.0	0.0
70°	8022.3	1244.8	85.9	35.8	16.7	11.9	4.8	2.4	0.0	0.0	0.0
72.5°	5093.8	713.0	66.8	21.5	11.9	4.8	0.0	0.0	0.0	0.0	0.0
75°	1969.8	279.0	45.3	14.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	558.0	131.2	26.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	145.5	57.2	14.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	69.2	23.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.5	9.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.1	2.4	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)