

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: P455911

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455911  
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-SA7A-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 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: 19370 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

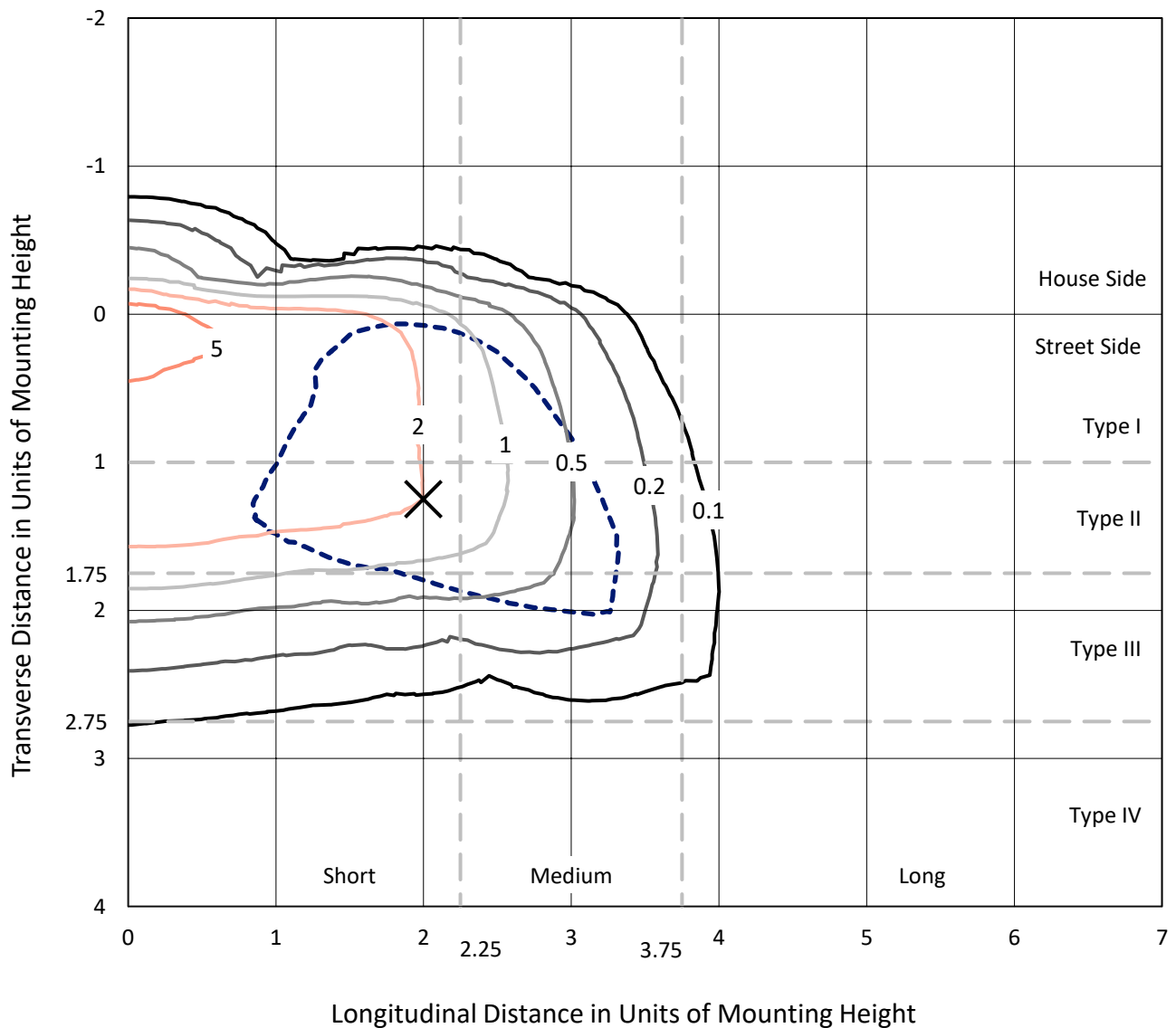
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

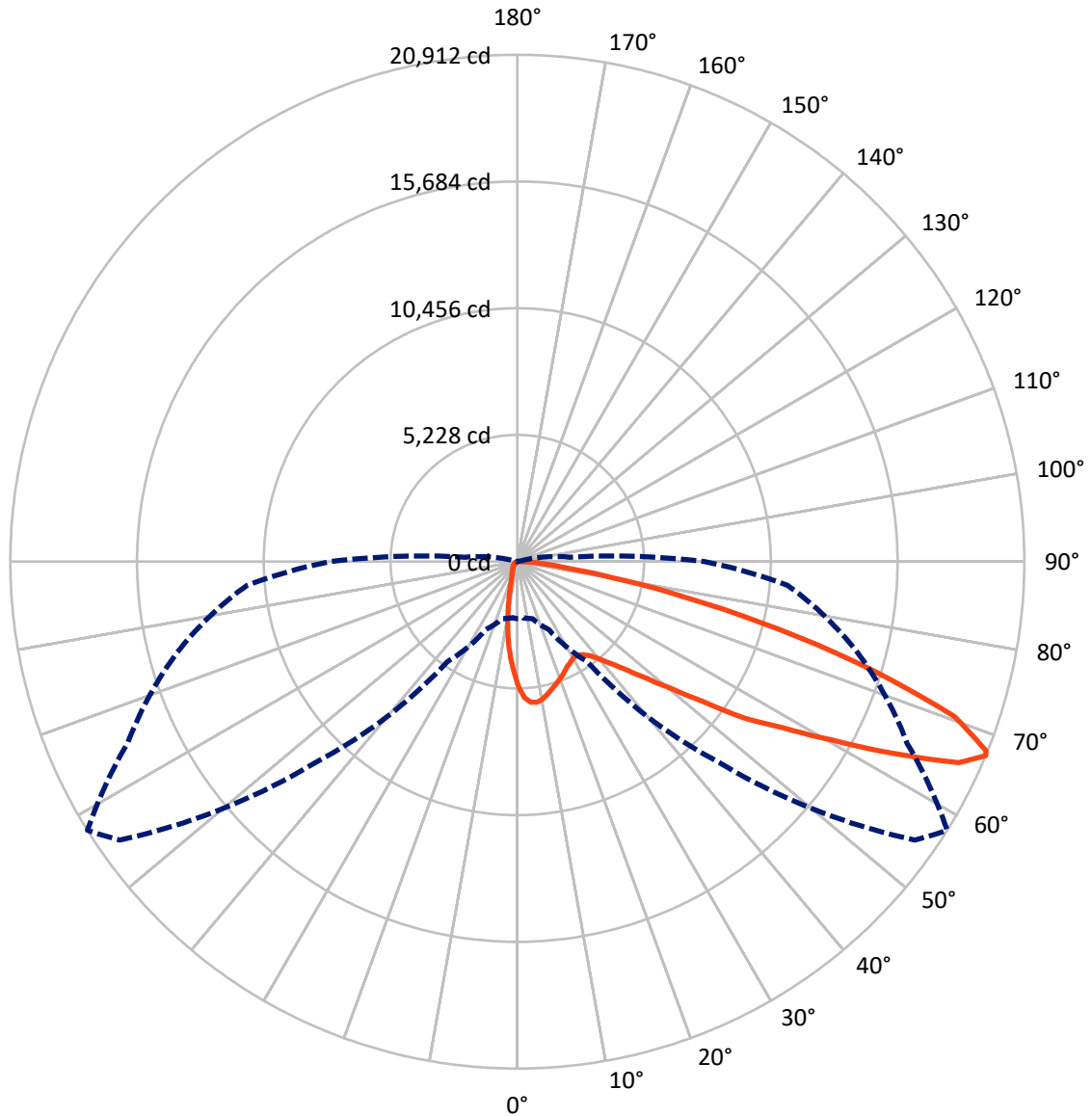
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	1397.9	0.0	1397.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	17972.1	0.0	17972.1
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	19370.0	0.0	19370.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.7	2.2
10°-20°	899.9	4.6
20°-30°	1219.5	6.3
30°-40°	1691.3	8.7
40°-50°	2697.5	13.9
50°-60°	4662.8	24.1
60°-70°	5326.3	27.5
70°-80°	2220.6	11.5
80°-90°	235.4	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°	19370.0	100.0
0°-180°	19370.0	100.0

**Coefficient of Utilization**

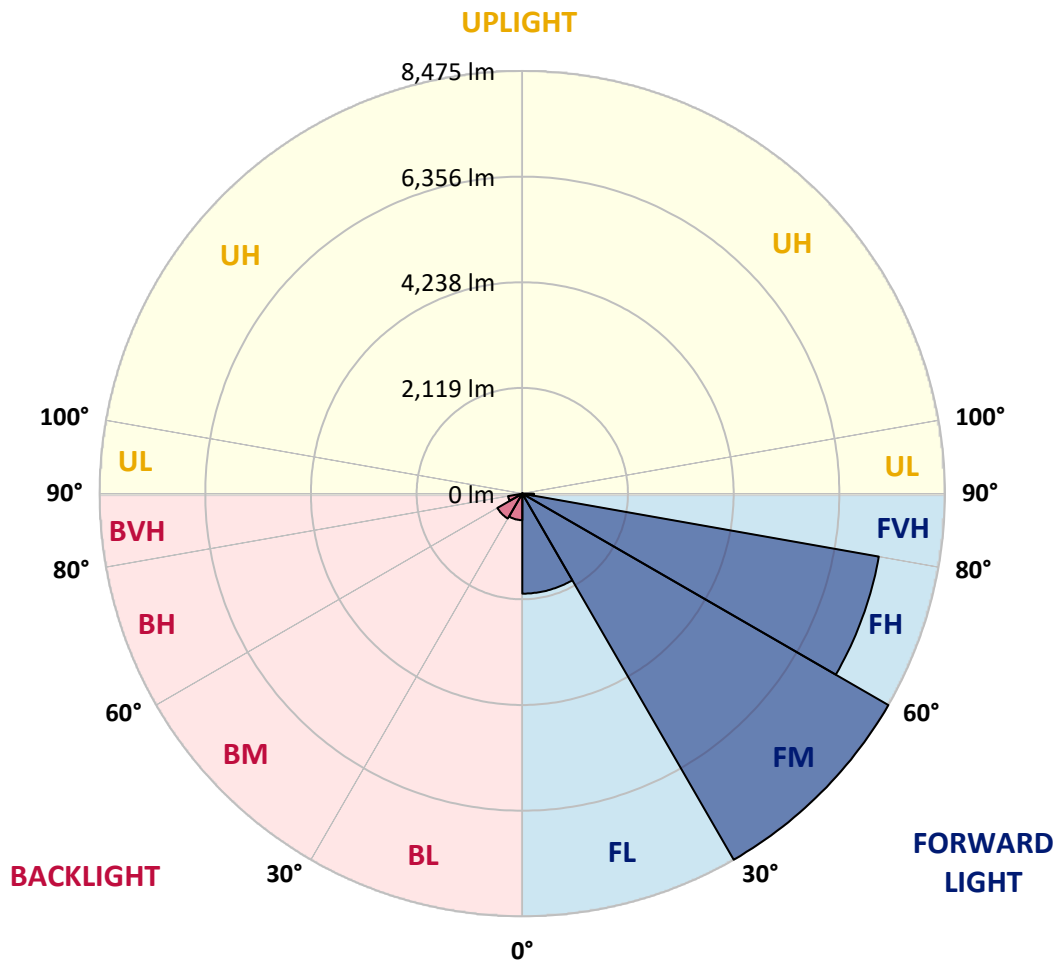


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2005.3	10.4			
FM (30°-60°)	8475.2	43.8			
FH (60°-80°)	7258.0	37.5			G3/7500
FVH (80°-90°)	233.7	1.2			G3/500
BL (0°-30°)	530.8	2.7	B2/1000		
BM (30°-60°)	576.4	3.0	B1/1000		
BH (60°-80°)	289.0	1.5	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: B2-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8
2.5°	5959.3	5968.4	5934.7	5907.6	5837.7	5762.6	5662.9	5609.8	5519.2	5362.6	5189.2
5°	6099.1	6110.8	6105.6	6099.1	6071.9	5999.5	5872.6	5826.0	5692.7	5437.7	5124.5
7.5°	5788.5	5831.2	5836.4	5886.8	5934.7	5941.2	5893.3	5858.4	5735.4	5436.4	5009.3
10°	5376.9	5405.3	5446.8	5505.0	5620.2	5716.0	5762.6	5757.4	5686.2	5396.3	4874.6
12.5°	4961.4	4976.9	5040.3	5140.0	5281.1	5444.2	5568.4	5593.0	5594.3	5348.4	4762.0
15°	4604.1	4597.6	4646.8	4762.0	4960.1	5164.6	5387.2	5426.0	5488.2	5301.8	4657.2
17.5°	4298.6	4332.3	4340.1	4466.9	4649.4	4914.8	5198.2	5266.8	5391.1	5261.7	4570.5
20°	4109.7	4127.8	4144.6	4215.8	4380.2	4659.8	5020.9	5115.4	5300.5	5225.4	4473.4
22.5°	4054.0	4065.7	4051.4	4073.4	4189.9	4438.4	4828.0	4953.6	5213.8	5191.8	4394.4
25°	4096.7	4108.4	4074.7	4048.8	4088.9	4258.5	4641.6	4794.4	5143.9	5185.3	4334.9
27.5°	4200.3	4222.3	4175.7	4129.1	4105.8	4161.4	4495.4	4672.7	5096.0	5216.4	4307.7
30°	4362.1	4375.0	4340.1	4283.1	4230.0	4174.4	4419.0	4588.6	5083.0	5288.8	4305.1
32.5°	4538.1	4565.3	4545.9	4508.3	4439.7	4307.7	4441.0	4591.2	5114.1	5393.7	4337.5
35°	4755.6	4786.6	4804.7	4797.0	4709.0	4544.6	4580.8	4707.7	5196.9	5586.5	4425.5
37.5°	4969.1	4996.3	5098.6	5133.5	5055.9	4900.5	4852.6	4936.8	5379.4	5839.0	4584.7
40°	5213.8	5250.0	5393.7	5527.0	5489.5	5326.4	5238.4	5308.3	5659.0	6219.5	4886.3
42.5°	5448.0	5512.8	5731.5	5967.1	6002.0	5819.5	5761.3	5784.6	6073.2	6767.0	5307.0
45°	5780.7	5841.5	6123.7	6443.4	6607.8	6465.4	6405.9	6402.0	6641.5	7537.2	5989.1
47.5°	6260.9	6315.3	6647.9	6963.8	7256.3	7275.7	7163.1	7201.9	7356.0	8438.1	6825.3
50°	6849.9	6978.0	7196.8	7525.5	7916.4	8232.3	8267.2	8215.4	8347.5	9481.3	7829.7
52.5°	7705.4	7754.6	7955.3	8225.8	8684.0	9219.9	9635.4	9564.2	9522.8	10475.4	8844.5
55°	8343.6	8409.6	8721.5	9093.0	9764.8	10471.5	11372.4	11397.0	10874.1	11430.7	9837.3
57.5°	8150.7	8251.7	8724.1	9471.0	10947.9	12239.7	12910.2	12927.0	12124.5	12358.7	10958.2
60°	7160.5	7208.4	7885.4	8882.0	11048.8	14155.3	15091.2	14955.3	13396.8	13396.8	11948.4
62.5°	5077.9	5152.9	5701.7	7168.3	9978.4	14820.7	17703.2	17422.4	15149.4	14389.6	12538.7
65°	3245.0	3172.5	3536.2	4525.2	7433.6	13838.2	19977.5	19994.3	16798.5	14787.0	12216.4
67°	2350.6	2322.1	2427.0	3093.6	5040.3	11632.6	20025.4	20912.0	17746.0	14535.9	11186.0
67.5°	2150.0	2172.0	2248.3	2790.7	4579.5	10585.4	19807.9	20857.7	17959.5	14384.5	10813.3
70°	1629.6	1592.1	1674.9	1973.9	2745.4	6677.7	17039.2	19129.7	17694.2	12881.7	8640.0
72.5°	1198.6	1194.7	1309.9	1614.1	2113.7	3557.0	12791.1	15338.4	14455.6	9808.8	5440.3
75°	809.0	845.2	1029.0	1348.7	1915.7	2306.6	8720.2	11127.8	10035.3	5569.7	2223.7
77.5°	460.8	463.4	662.7	1083.4	1720.2	1856.1	5167.2	7089.3	5312.1	1852.3	660.1
80°	199.3	218.8	328.8	787.0	1426.4	1643.9	2962.8	3896.1	2148.7	392.2	213.6
82.5°	73.8	86.7	145.0	484.1	1040.7	1353.9	1790.1	1860.0	728.7	138.5	133.3
85°	0.0	2.6	53.1	226.5	542.3	604.5	1196.0	1102.8	322.3	66.0	86.7
87.5°	0.0	0.0	0.0	23.3	71.2	225.2	371.5	414.2	77.7	23.3	20.7
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°	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8
2.5°	5096.0	5011.8	4800.9	4589.9	4433.3	4302.5	4105.8	3998.3	3941.4	3857.3	3862.4
5°	4967.8	4797.0	4425.5	4041.1	3730.4	3427.5	3065.1	2918.8	2795.9	2726.0	2679.4
7.5°	4777.6	4525.2	3975.0	3462.5	2984.8	2455.4	2058.1	1792.7	1614.1	1548.1	1484.7
10°	4569.2	4233.9	3518.1	2807.5	2144.8	1598.6	1262.0	1018.7	932.0	851.7	859.5
12.5°	4376.3	3968.6	3098.7	2216.0	1502.8	1016.1	792.2	692.5	664.0	655.0	655.0
15°	4218.4	3714.9	2648.3	1665.9	1030.3	730.0	634.2	607.1	596.7	594.1	594.1
17.5°	4050.1	3474.1	2241.9	1231.0	749.4	610.9	578.6	560.5	556.6	554.0	554.0
20°	3900.0	3232.1	1856.1	916.4	605.8	550.1	529.4	517.8	513.9	511.3	512.6
22.5°	3757.6	3017.2	1493.7	692.5	533.3	500.9	480.2	468.6	460.8	454.3	455.6
25°	3630.7	2810.1	1201.2	566.9	480.2	451.7	431.0	414.2	397.4	389.6	388.3
27.5°	3541.4	2628.9	935.8	485.4	432.3	401.3	375.4	354.7	332.7	321.0	318.4
30°	3467.6	2445.1	740.4	428.4	384.4	354.7	322.3	292.5	269.2	257.6	252.4
32.5°	3419.8	2270.3	583.8	381.8	344.3	308.1	271.8	242.0	216.2	204.5	201.9
35°	3412.0	2124.1	477.6	343.0	308.1	269.2	231.7	199.3	177.3	165.7	163.1
37.5°	3467.6	2011.5	400.0	311.9	278.3	235.6	194.2	164.4	145.0	135.9	134.6
40°	3616.5	1940.3	346.9	286.1	251.1	204.5	165.7	139.8	120.4	111.3	111.3
42.5°	3900.0	1942.9	311.9	261.5	223.9	174.7	141.1	116.5	99.7	91.9	89.3
45°	4342.6	2030.9	282.2	236.9	198.0	151.4	120.4	95.8	79.0	72.5	72.5
47.5°	4935.5	2205.6	256.3	212.3	174.7	129.4	102.3	77.7	63.4	57.0	57.0
50°	5710.8	2486.5	234.3	191.6	155.3	111.3	82.8	63.4	49.2	44.0	42.7
52.5°	6521.1	2833.4	208.4	173.4	133.3	94.5	67.3	49.2	37.5	33.7	32.4
55°	7415.5	3172.5	183.8	155.3	108.7	79.0	53.1	38.8	27.2	23.3	23.3
57.5°	8317.7	3505.2	154.0	129.4	85.4	58.2	41.4	28.5	18.1	14.2	14.2
60°	9081.4	3612.6	130.7	104.8	64.7	41.4	29.8	18.1	10.4	6.5	6.5
62.5°	9186.2	3250.2	110.0	80.3	46.6	28.5	15.5	10.4	3.9	2.6	2.6
65°	8616.7	2640.5	91.9	60.8	31.1	14.2	6.5	3.9	1.3	0.0	0.0
67°	7721.0	2140.9	75.1	45.3	22.0	9.1	3.9	1.3	0.0	0.0	0.0
67.5°	7491.9	2041.2	72.5	42.7	19.4	7.8	2.6	1.3	0.0	0.0	0.0
70°	5879.1	1528.7	51.8	25.9	11.6	5.2	0.0	0.0	0.0	0.0	0.0
72.5°	3654.0	864.6	37.5	15.5	7.8	2.6	0.0	0.0	0.0	0.0	0.0
75°	1381.1	302.9	25.9	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	429.7	115.2	15.5	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	145.0	44.0	10.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	89.3	18.1	6.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	55.7	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	2.6	1.3	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)