

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: P455297

Luminaire Tested: **GALN-SA6C-727-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455297  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-727-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28566 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

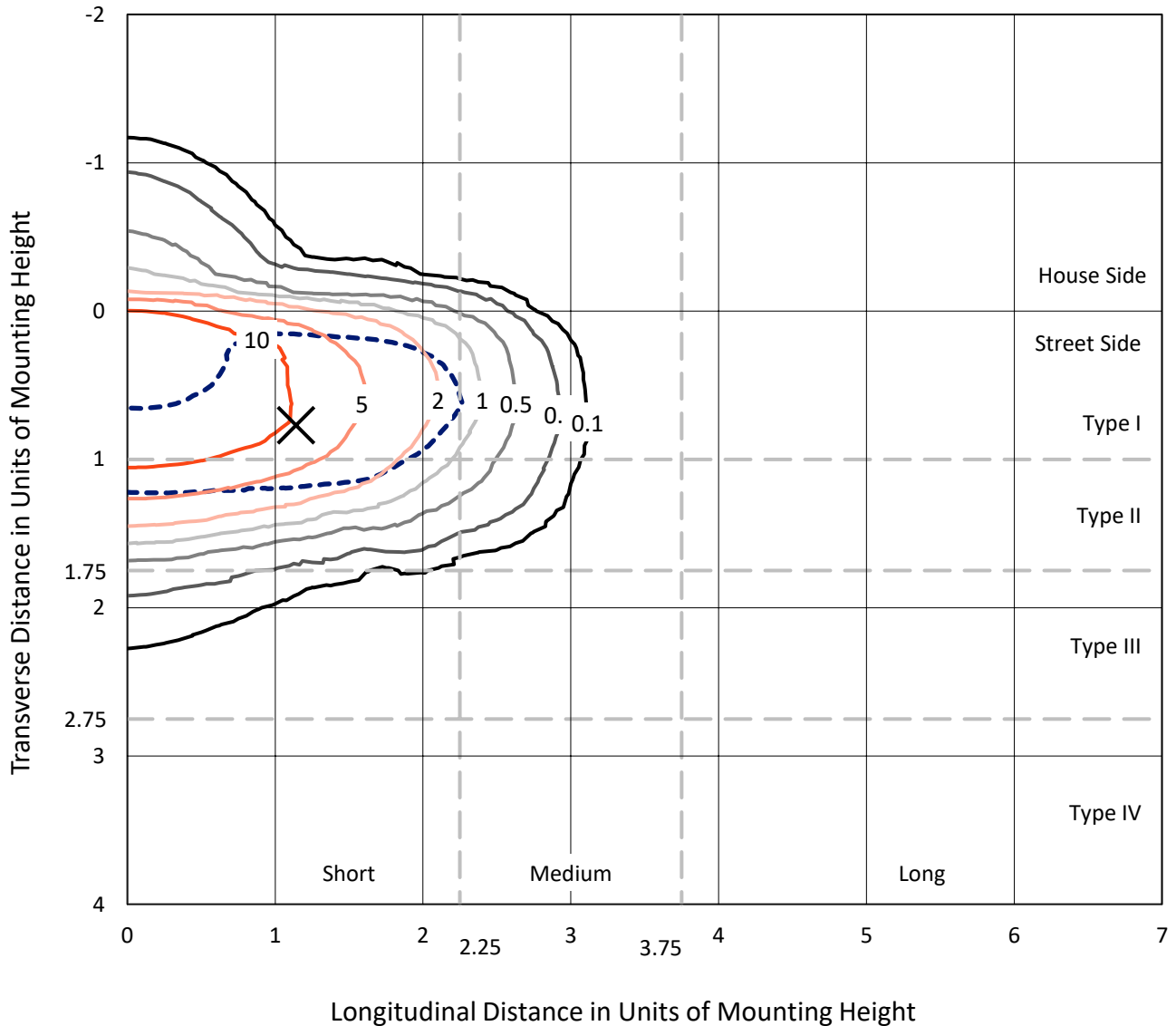
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455297  
 CATALOG NUMBER: GALN-SA6C-727-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

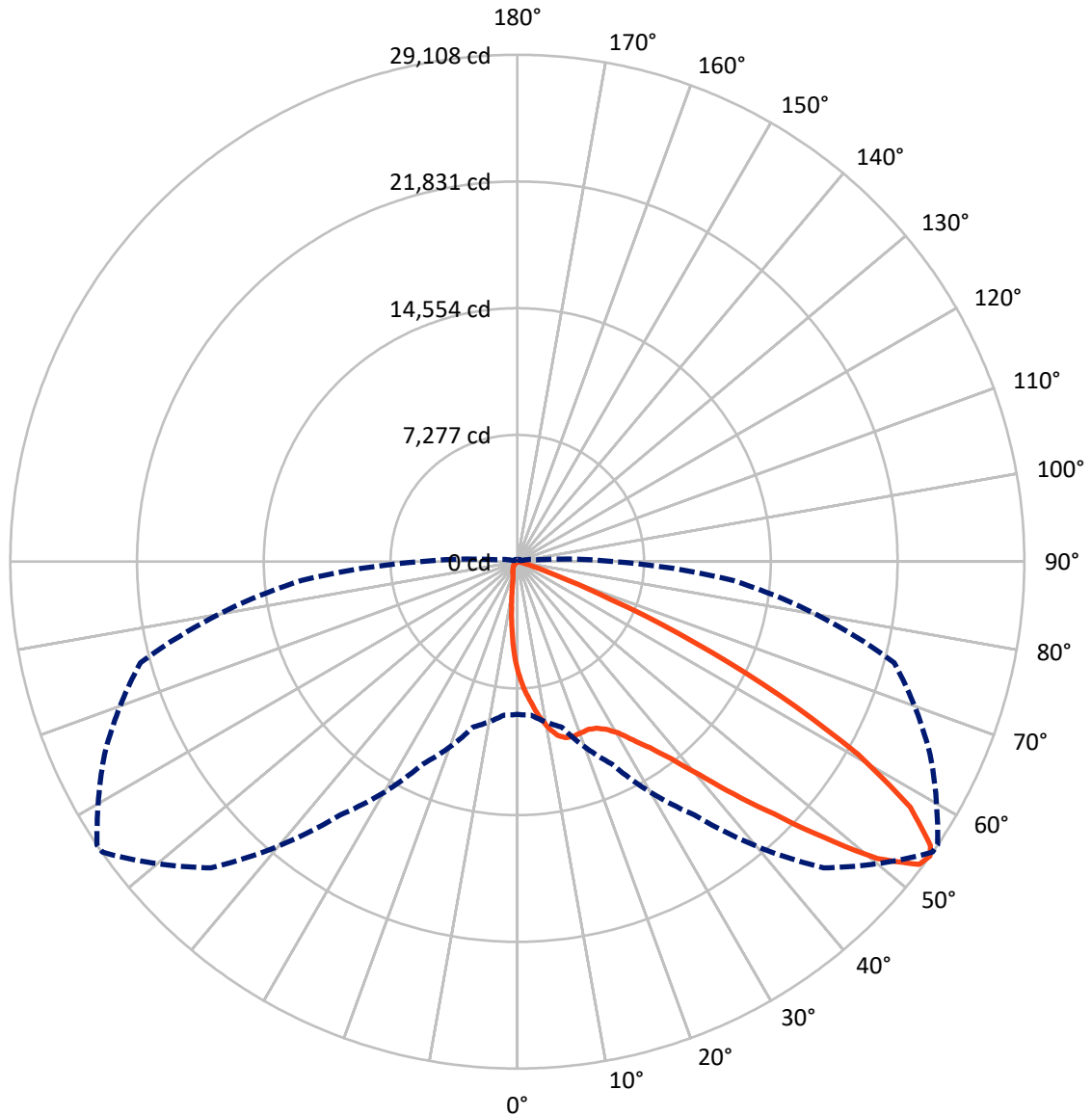
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P455297  
CATALOG NUMBER: GALN-SA6C-727-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P455297

CATALOG NUMBER: GALN-SA6C-727-U-AFL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1350.8	0.0	1350.8
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	27215.2	0.0	27215.2
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	28566.0	0.0	28566.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	560.8	2.0
10°-20°	1516.1	5.3
20°-30°	2625.7	9.2
30°-40°	4532.4	15.9
40°-50°	7714.3	27.0
50°-60°	7634.3	26.7
60°-70°	3484.4	12.2
70°-80°	447.5	1.6
80°-90°	50.4	0.2
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°	28566.0	100.0
0°-180°	28566.0	100.0



REPORT NUMBER: P455297

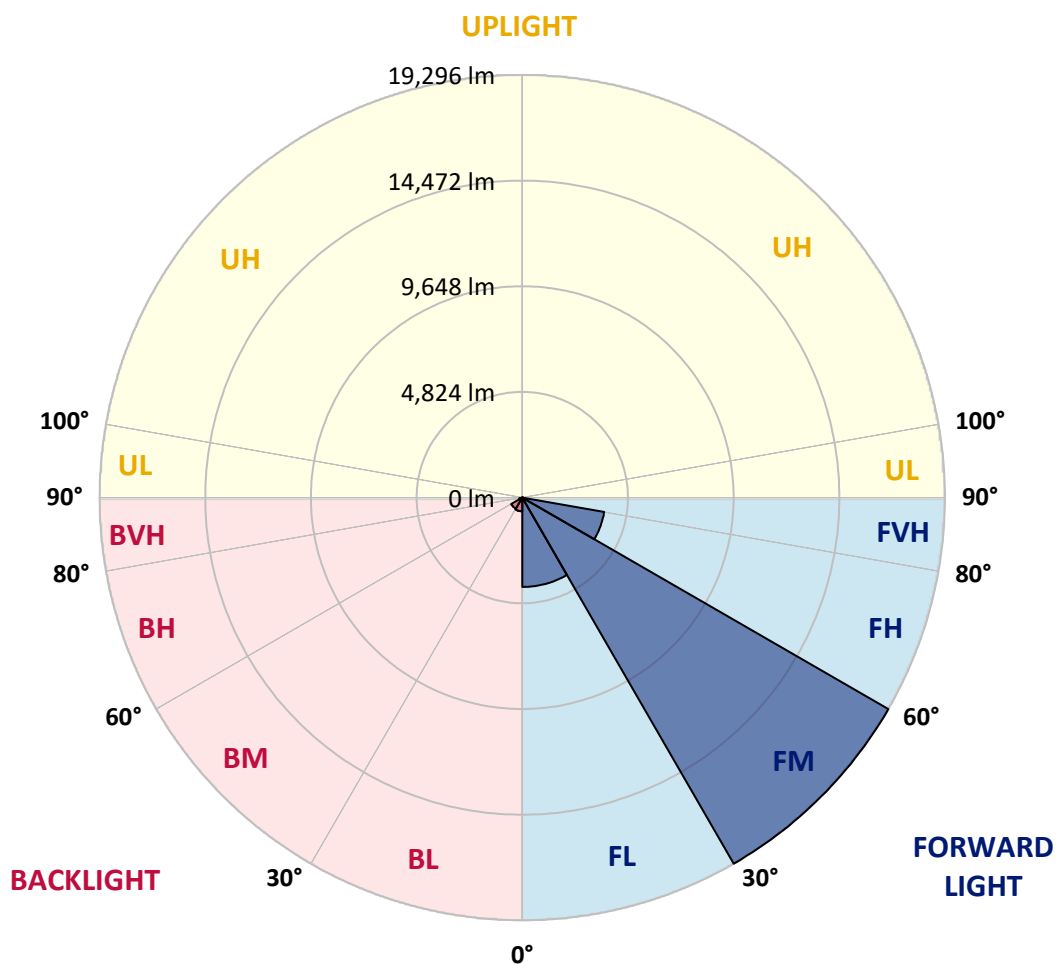
CATALOG NUMBER: GALN-SA6C-727-U-AFL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4077.9	14.3			
FM	(30°-60°)	19295.6	67.5			
FH	(60°-80°)	3796.7	13.3			G2/5000
FVH	(80°-90°)	45.0	0.2			G1/100
BL	(0°-30°)	624.7	2.2	B2/1000		
BM	(30°-60°)	585.4	2.0	B1/1000		
BH	(60°-80°)	135.3	0.5	B1/500		G1/500
BVH	(80°-90°)	5.4	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-G2**

Type II Short





REPORT NUMBER: P455297

CATALOG NUMBER: GALN-SA6C-727-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6346.5	6346.5	6346.5	6346.5	6346.5	6346.5	6346.5	6346.5	6346.5	6346.5	6346.5
2.5°	8065.7	8009.8	7932.7	7873.0	7732.3	7529.9	7316.0	7316.0	7109.7	6822.6	6529.6
5°	9303.0	9266.4	9191.2	9037.0	8879.0	8595.7	8165.9	8090.7	7722.6	7202.3	6654.9
7.5°	9806.0	9823.4	9827.2	9786.7	9711.6	9432.1	9006.2	8954.2	8366.3	7668.7	6818.7
10°	9324.2	9409.0	9491.9	9659.5	9896.6	9964.1	9723.1	9669.2	9091.0	8140.8	6996.0
12.5°	8607.2	8653.5	8699.8	8963.8	9439.8	9985.3	10237.7	10235.8	9746.3	8611.1	7221.5
15°	8273.8	8314.3	8318.2	8435.7	8848.2	9642.2	10457.4	10486.3	10386.1	9191.2	7464.4
17.5°	8343.2	8376.0	8349.0	8377.9	8593.8	9264.5	10432.4	10528.7	10904.6	9748.2	7684.1
20°	8796.1	8859.7	8755.6	8674.7	8740.2	9164.2	10347.6	10482.5	11270.8	10291.7	7884.5
22.5°	9609.4	9644.1	9513.1	9291.4	9175.8	9374.3	10324.5	10457.4	11583.0	10736.9	8000.2
25°	10513.3	10501.8	10357.2	10108.6	9865.8	9798.3	10476.7	10596.2	11841.2	11137.8	8034.8
27.5°	11417.2	11451.9	11209.1	10900.7	10609.7	10434.3	10817.8	10906.5	12132.2	11594.5	8077.2
30°	12467.6	12411.7	12172.7	11820.0	11486.6	11241.8	11367.1	11392.2	12533.1	12199.7	8189.0
32.5°	13834.0	13679.9	13412.0	12795.2	12556.3	12141.9	12172.7	12203.6	13020.7	12799.1	8323.9
35°	15688.1	15680.4	15156.2	14325.5	13743.5	13228.9	13094.0	13119.0	13758.9	13689.5	8622.7
37.5°	17919.9	17950.7	17353.3	16516.8	15445.2	14628.1	14350.6	14354.4	14880.6	14919.1	9077.5
40°	19737.3	19818.3	19461.7	18897.0	17838.9	16561.1	16094.7	16052.3	16457.1	16408.9	9727.0
42.5°	20519.8	20594.9	20727.9	20924.5	20342.5	19288.3	18187.8	18245.6	18368.9	18031.7	10455.5
45°	20136.3	20255.7	20778.0	21992.2	22539.6	22185.0	20872.5	20670.1	20147.8	19795.1	11187.9
47.5°	18538.5	18829.6	19702.6	21724.3	23640.1	24838.8	23902.2	23634.3	21928.6	21082.6	11654.3
50°	15911.7	15929.0	17145.1	19729.6	23069.6	26513.6	26995.5	26795.0	23588.0	21805.3	11889.4
52.5°	11534.8	11914.5	13028.4	16021.5	20598.8	26259.2	28967.1	28884.2	25299.4	22175.3	12228.6
54°	8769.1	8842.4	9833.0	12802.9	17759.9	24862.0	29088.5	29107.8	26149.4	22398.9	12429.1
55°	7188.8	7013.4	8054.1	10906.5	15823.0	23626.6	28691.5	28784.0	26531.0	22514.5	12577.5
57.5°	3407.4	3409.4	4205.3	5752.9	9910.1	18345.8	26265.0	26592.7	26573.4	22713.0	13034.2
60°	1724.9	1736.5	1911.9	2655.8	4895.3	12195.8	21716.6	22497.2	24528.5	22741.9	13184.5
62.5°	1206.5	1193.0	1164.1	1277.8	2060.3	6198.1	16168.0	16846.4	20839.7	21641.5	12706.6
65°	1033.0	1004.1	923.2	905.8	1040.7	2468.8	10070.1	11176.3	15911.7	18739.0	11345.9
67.5°	882.7	871.1	797.9	753.6	736.2	1075.4	5196.0	5778.0	10875.7	13469.8	8593.8
70°	749.7	743.9	699.6	643.7	595.5	643.7	1927.3	2387.9	6061.3	7252.4	4055.0
72.5°	609.0	614.8	622.5	551.2	501.1	456.8	822.9	957.9	2536.3	2592.2	1418.5
75°	533.9	528.1	528.1	479.9	418.2	339.2	452.9	487.6	776.7	720.8	329.6
77.5°	375.8	362.3	424.0	395.1	348.8	240.9	258.3	273.7	321.9	275.6	154.2
80°	260.2	260.2	271.7	354.6	314.1	175.4	158.0	169.6	190.8	163.8	88.7
82.5°	146.5	150.3	177.3	188.9	183.1	117.6	104.1	106.0	127.2	111.8	55.9
85°	17.3	28.9	102.1	100.2	75.2	52.0	57.8	59.7	79.0	69.4	32.8
87.5°	1.9	3.9	21.2	27.0	19.3	21.2	21.2	21.2	27.0	30.8	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



REPORT NUMBER: P455297

CATALOG NUMBER: GALN-SA6C-727-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6346.5	6346.5	6346.5	6346.5	6346.5	6346.5	6346.5	6346.5	6346.5	6346.5	6346.5
2.5°	6371.6	6225.1	5876.3	5471.6	5213.3	4793.2	4438.5	4182.2	4118.6	3995.3	4031.9
5°	6363.9	6059.4	5348.2	4596.6	3794.8	3197.4	2752.2	2401.4	2247.2	2145.1	2073.8
7.5°	6367.7	5891.7	4750.8	3553.9	2596.1	2010.2	1597.7	1383.8	1241.2	1181.4	1189.1
10°	6379.3	5702.8	4056.9	2632.7	1751.9	1299.0	1046.5	944.4	896.2	888.5	886.6
12.5°	6406.3	5496.6	3393.9	1954.3	1225.8	944.4	848.0	813.3	797.9	797.9	792.1
15°	6435.2	5269.2	2842.7	1453.2	944.4	811.4	767.1	749.7	740.1	740.1	738.1
17.5°	6435.2	5007.1	2328.2	1127.5	813.3	745.9	711.2	688.0	680.3	680.3	678.4
20°	6394.7	4702.6	1871.4	907.8	738.1	684.2	649.5	624.4	614.8	610.9	609.0
22.5°	6254.0	4295.9	1489.8	780.5	676.5	630.2	585.9	557.0	549.3	545.4	547.3
25°	6003.5	3837.2	1179.5	686.1	620.6	564.7	526.1	504.9	497.2	497.2	499.2
27.5°	5745.2	3357.3	934.7	614.8	553.1	503.0	472.2	458.7	456.8	462.5	464.5
30°	5506.2	2875.5	757.4	557.0	493.4	451.0	429.8	425.9	425.9	427.9	429.8
32.5°	5240.3	2453.4	634.1	506.9	445.2	408.6	397.0	397.0	400.9	400.9	404.7
35°	5072.6	2091.1	557.0	458.7	408.6	377.7	370.0	372.0	377.7	385.5	389.3
37.5°	4982.0	1802.0	506.9	420.1	373.9	352.7	345.0	348.8	362.3	375.8	377.7
40°	4989.7	1584.2	466.4	387.4	346.9	323.8	318.0	329.6	343.1	356.5	358.5
42.5°	5074.5	1422.3	427.9	348.8	323.8	291.0	289.1	300.7	306.4	319.9	321.9
45°	5174.8	1304.8	387.4	308.4	281.4	252.5	254.4	264.0	271.7	292.9	296.8
47.5°	5205.6	1223.8	341.1	262.1	231.3	221.6	223.6	229.3	244.8	264.0	266.0
50°	5240.3	1173.7	296.8	221.6	196.6	194.7	196.6	200.4	210.1	217.8	215.9
52.5°	5388.7	1171.8	260.2	192.7	167.7	171.5	173.5	171.5	163.8	152.3	148.4
54°	5527.4	1177.6	242.8	179.2	154.2	160.0	158.0	148.4	129.1	117.6	111.8
55°	5639.2	1183.4	233.2	169.6	146.5	148.4	150.3	131.1	106.0	94.4	90.6
57.5°	5858.9	1169.9	210.1	148.4	129.1	121.4	119.5	86.7	57.8	50.1	46.3
60°	5749.1	1056.2	190.8	127.2	109.9	98.3	80.9	48.2	28.9	21.2	21.2
62.5°	5317.4	896.2	169.6	104.1	90.6	75.2	42.4	27.0	13.5	7.7	5.8
65°	4756.5	753.6	152.3	82.9	71.3	48.2	23.1	17.3	5.8	0.0	0.0
67.5°	3536.6	558.9	129.1	65.5	54.0	30.8	15.4	9.6	1.9	0.0	0.0
70°	1638.2	341.1	109.9	50.1	38.5	23.1	11.6	5.8	0.0	0.0	0.0
72.5°	470.3	213.9	90.6	36.6	27.0	19.3	9.6	3.9	1.9	0.0	0.0
75°	163.8	171.5	67.5	27.0	21.2	13.5	7.7	3.9	1.9	0.0	0.0
77.5°	98.3	138.8	42.4	23.1	17.3	11.6	7.7	3.9	1.9	1.9	0.0
80°	55.9	92.5	27.0	19.3	15.4	9.6	5.8	3.9	1.9	1.9	0.0
82.5°	30.8	44.3	21.2	17.3	13.5	9.6	5.8	3.9	1.9	1.9	1.9
85°	25.1	23.1	17.3	15.4	11.6	7.7	5.8	1.9	0.0	0.0	0.0
87.5°	19.3	15.4	15.4	15.4	11.6	7.7	5.8	1.9	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)