

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: P455449

Luminaire Tested: **GALN-SA6C-827-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455449  
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-SA6C-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA 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: 25209 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

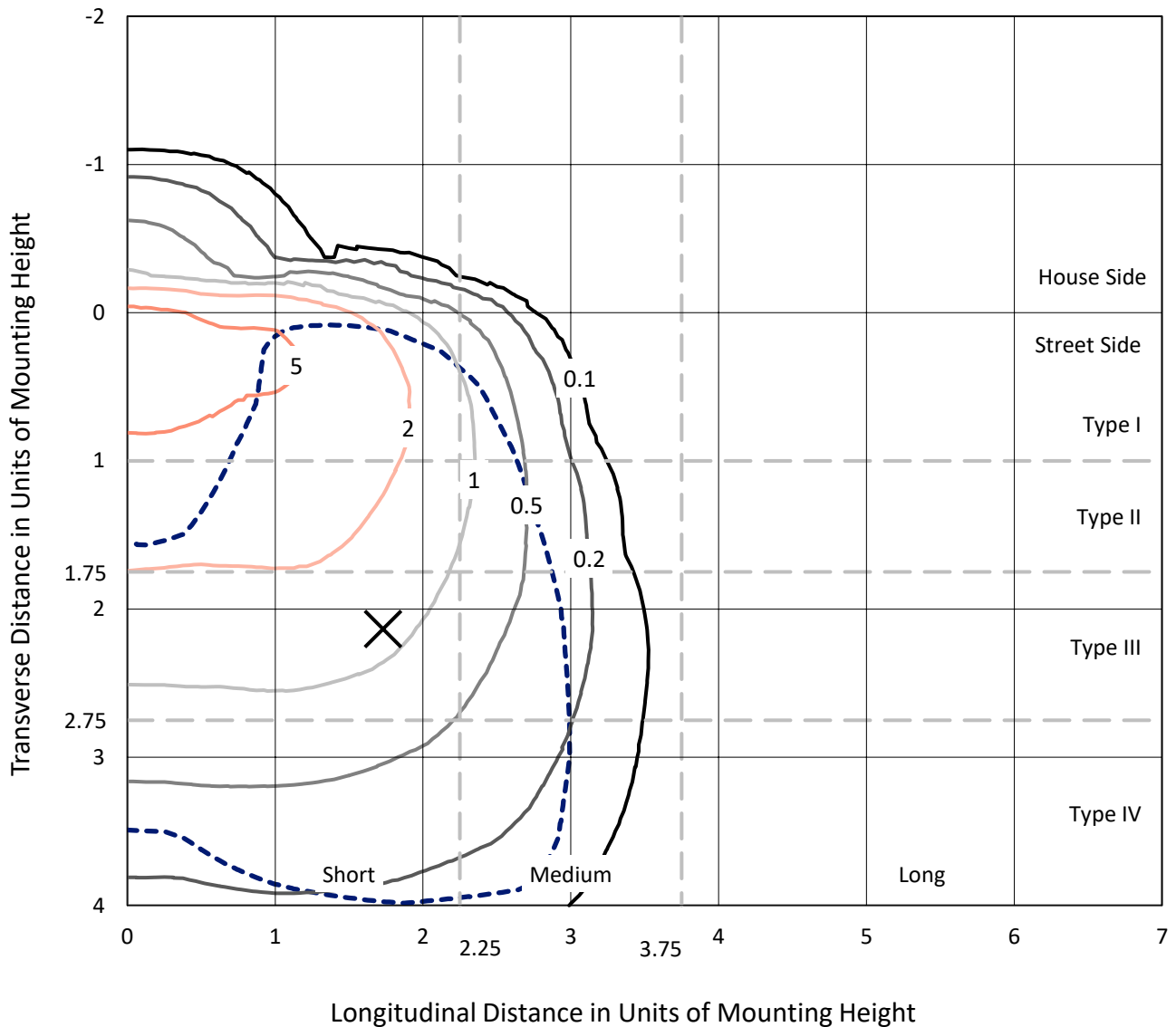
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455449  
 CATALOG NUMBER: GALN-SA6C-827-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

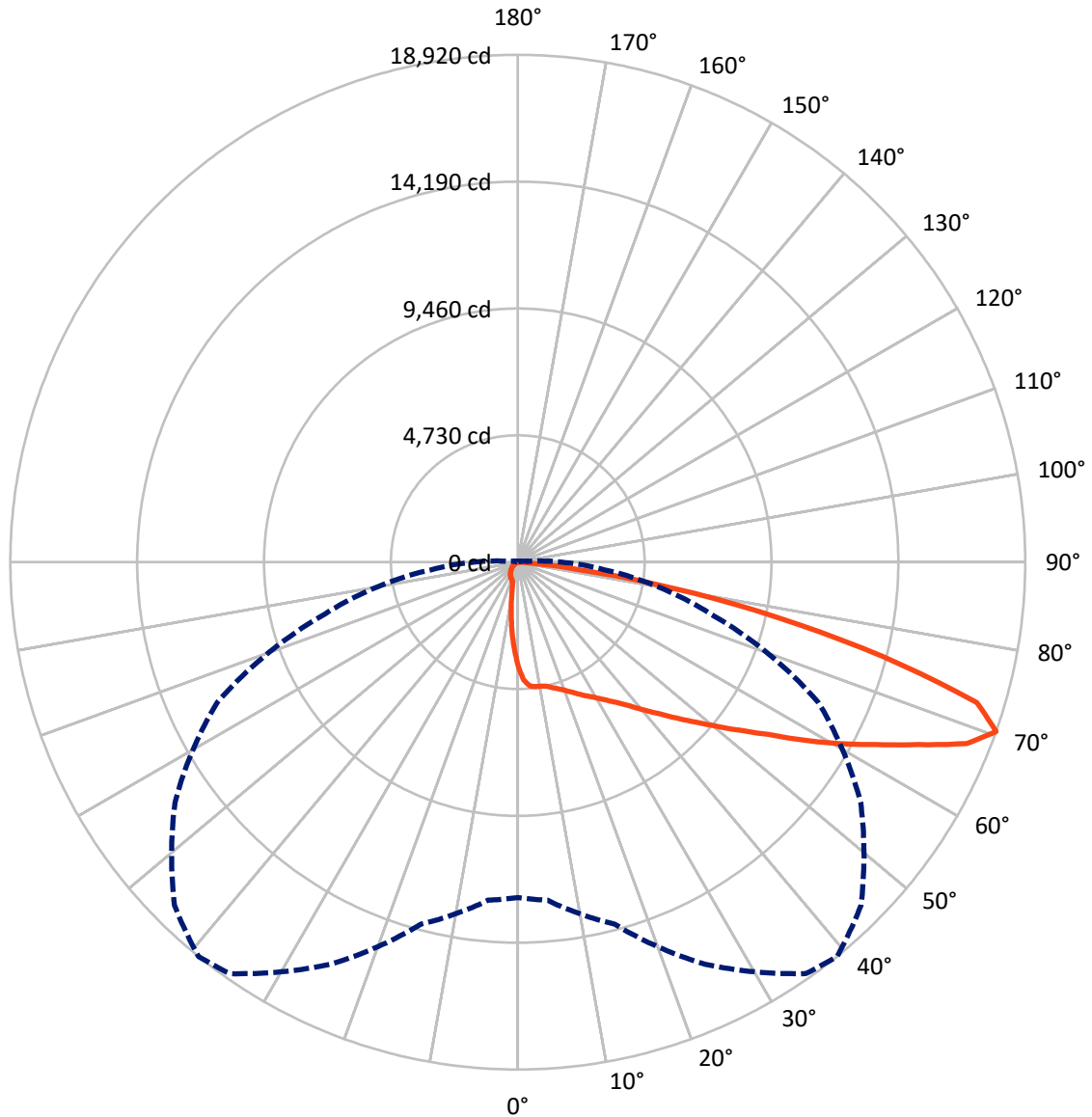
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P455449  
CATALOG NUMBER: GALN-SA6C-827-U-SL4-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P455449

CATALOG NUMBER: GALN-SA6C-827-U-SL4-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1643.8	0.0	1643.8
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	23565.3	0.0	23565.3
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	25209.0	0.0	25209.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.5	1.3
10°-20°	871.9	3.5
20°-30°	1460.6	5.8
30°-40°	2265.2	9.0
40°-50°	3589.7	14.2
50°-60°	5262.0	20.9
60°-70°	6744.6	26.8
70°-80°	4238.1	16.8
80°-90°	441.5	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°	25209.0	100.0
0°-180°	25209.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P455449

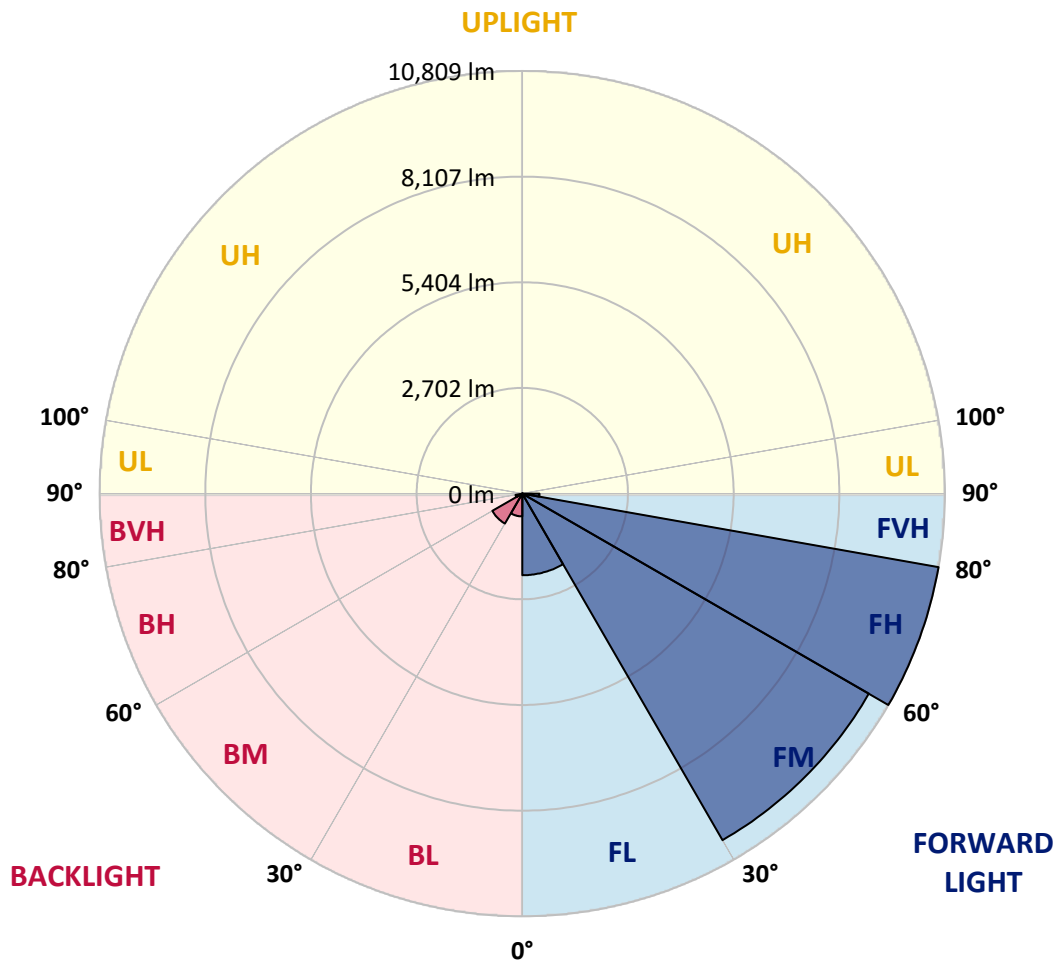
CATALOG NUMBER: GALN-SA6C-827-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2085.9	8.3			
FM (30°-60°)	10232.3	40.6			
FH (60°-80°)	10808.8	42.9			G4/12000
FVH (80°-90°)	438.3	1.7			G3/500
BL (0°-30°)	582.0	2.3	B2/1000		
BM (30°-60°)	884.6	3.5	B1/1000		
BH (60°-80°)	173.8	0.7	B1/500		G1/500
BVH (80°-90°)	3.3	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 IV Short





REPORT NUMBER: P455449

CATALOG NUMBER: GALN-SA6C-827-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5
2.5°	4545.0	4529.8	4509.4	4485.7	4418.0	4406.1	4365.4	4279.0	4175.7	4091.0	3974.1
5°	4760.1	4768.6	4753.4	4711.0	4661.9	4633.1	4582.3	4448.4	4314.6	4143.5	3952.1
7.5°	4809.3	4826.2	4807.6	4766.9	4719.5	4689.0	4648.3	4533.1	4377.3	4182.5	3919.9
10°	4804.2	4824.5	4812.7	4775.4	4736.4	4707.6	4663.6	4572.1	4446.8	4241.8	3930.1
12.5°	4795.7	4822.8	4821.1	4802.5	4770.3	4748.3	4721.2	4639.9	4523.0	4328.2	3986.0
15°	4772.0	4805.9	4836.4	4851.6	4853.3	4853.3	4819.4	4733.0	4621.2	4441.7	4058.8
17.5°	4782.2	4821.1	4897.4	4941.4	4971.9	4968.5	4932.9	4839.8	4716.1	4558.6	4135.1
20°	4844.8	4897.4	5004.1	5092.2	5122.7	5112.5	5065.1	4956.6	4816.0	4658.5	4209.6
22.5°	4999.0	5046.4	5180.3	5283.6	5305.6	5278.5	5210.7	5063.4	4936.3	4766.9	4299.4
25°	5229.4	5285.3	5408.9	5486.9	5486.9	5471.6	5376.8	5204.0	5071.8	4917.7	4416.3
27.5°	5508.9	5556.3	5678.3	5747.7	5707.1	5663.0	5568.2	5359.8	5232.8	5107.4	4556.9
30°	5791.8	5822.3	5951.0	5981.5	5939.2	5883.3	5781.6	5573.3	5461.5	5364.9	4760.1
32.5°	6059.4	6125.5	6232.2	6225.5	6167.9	6140.8	6047.6	5825.7	5763.0	5752.8	5044.7
35°	6327.1	6377.9	6472.8	6496.5	6445.7	6440.6	6372.8	6208.5	6210.2	6276.3	5488.6
37.5°	6557.5	6603.2	6715.0	6767.5	6777.7	6803.1	6776.0	6667.6	6821.7	7003.0	6076.4
40°	6750.6	6815.0	6957.3	7048.7	7153.8	7246.9	7252.0	7275.7	7585.7	7897.4	6843.8
42.5°	6901.4	6991.1	7197.8	7367.2	7607.8	7726.3	7821.2	7951.6	8473.4	8939.2	7748.4
45°	7097.9	7201.2	7458.7	7724.6	8100.7	8295.5	8427.7	8776.6	9516.9	10152.1	8676.7
47.5°	7423.1	7477.3	7739.9	8127.8	8622.5	8900.3	9157.8	9686.3	10636.6	11205.8	9449.1
50°	7841.5	7877.1	8075.3	8614.0	9254.3	9620.2	10089.5	10711.2	11798.7	12079.9	9886.2
52.5°	8304.0	8315.8	8464.9	9149.3	9962.4	10423.2	10948.3	11715.7	12745.7	12703.3	10175.9
55°	8841.0	8824.0	8951.1	9730.3	10800.9	11327.8	11939.3	12744.0	13567.2	13145.4	10341.9
57.5°	9455.9	9410.2	9533.8	10501.1	11874.9	12505.1	13126.8	13631.6	14204.2	13516.4	10421.5
60°	10099.6	10008.2	10155.5	11366.7	13140.4	13738.3	14255.0	14390.5	14875.0	13811.2	10284.3
62.5°	10612.9	10614.6	10889.0	12288.3	14441.4	14964.8	15239.2	15361.2	15452.7	13746.8	9562.6
65°	11414.2	11441.3	11880.0	13567.2	15947.3	16401.3	16589.3	16192.9	15478.1	12947.2	8478.5
67.5°	12240.8	12327.2	13130.2	15329.0	17687.1	18053.0	17810.7	16353.9	14786.9	11122.8	6428.7
70°	12510.2	12652.5	13975.5	16541.9	18730.6	18920.3	18100.4	15603.4	12361.1	7436.7	3235.5
72.5°	11463.3	11693.7	13489.3	16099.8	18064.8	17900.5	16194.6	13086.2	7858.5	2823.9	987.6
75°	8083.8	8185.4	11210.9	13355.5	14529.4	14063.6	12318.8	8436.1	3232.2	792.8	338.8
77.5°	4174.0	4124.9	6667.6	8861.3	10362.2	9879.4	8066.8	4367.1	1224.8	330.3	210.1
80°	2158.2	2193.7	2884.9	4643.3	6325.4	5820.6	4301.1	2024.3	652.2	183.0	160.9
82.5°	1209.5	1135.0	1658.4	2027.7	2957.7	2319.1	1650.0	1433.1	284.6	110.1	152.5
85°	220.2	230.4	909.7	1096.0	1026.6	652.2	531.9	957.1	83.0	61.0	106.7
87.5°	3.4	3.4	176.2	315.1	199.9	91.5	167.7	137.2	16.9	23.7	18.6
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: P455449

CATALOG NUMBER: GALN-SA6C-827-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5
2.5°	3914.8	3850.5	3730.2	3611.6	3460.8	3337.2	3254.2	3167.8	3079.7	3086.5	3106.8
5°	3847.1	3735.3	3498.1	3247.4	3006.9	2790.0	2576.6	2385.2	2307.2	2236.1	2239.5
7.5°	3779.3	3621.8	3274.5	2881.5	2517.3	2148.0	1880.3	1660.1	1543.2	1455.1	1429.7
10°	3748.8	3540.5	3069.5	2529.1	2012.5	1609.3	1265.4	1085.9	946.9	902.9	914.8
12.5°	3762.4	3499.8	2884.9	2210.7	1595.7	1121.4	880.9	789.4	758.9	753.8	750.4
15°	3787.8	3471.0	2703.6	1858.3	1172.2	833.4	740.3	723.3	720.0	716.6	718.3
17.5°	3821.7	3445.6	2510.5	1528.0	899.5	728.4	701.3	692.8	691.2	691.2	691.2
20°	3855.5	3416.8	2295.4	1233.2	750.4	687.8	670.8	665.7	664.0	664.0	662.4
22.5°	3894.5	3391.4	2076.8	969.0	691.2	659.0	643.7	640.3	638.6	636.9	636.9
25°	3950.4	3359.2	1844.8	792.8	653.9	631.9	616.6	613.2	611.5	604.8	606.5
27.5°	4024.9	3335.5	1605.9	684.4	620.0	598.0	587.8	582.7	579.3	574.3	576.0
30°	4126.6	3315.2	1351.8	625.1	581.0	562.4	552.2	548.9	545.5	540.4	540.4
32.5°	4302.8	3323.6	1084.2	577.7	545.5	523.4	513.3	509.9	506.5	501.4	501.4
35°	4567.0	3372.8	867.3	537.0	503.1	481.1	470.9	470.9	465.9	459.1	457.4
37.5°	4999.0	3498.1	696.2	498.0	462.5	442.1	430.3	426.9	421.8	411.6	409.9
40°	5508.9	3692.9	586.1	459.1	425.2	404.9	394.7	384.5	371.0	360.8	359.1
42.5°	6149.2	3892.8	508.2	420.1	389.6	371.0	359.1	342.2	321.9	308.3	306.6
45°	6816.7	4075.8	455.7	384.5	355.7	340.5	326.9	299.8	274.4	257.5	255.8
47.5°	7314.7	4109.6	413.3	350.7	326.9	311.7	293.1	259.2	225.3	210.1	205.0
50°	7550.2	3945.3	369.3	316.8	298.1	281.2	257.5	218.5	181.3	162.6	159.2
52.5°	7633.2	3660.7	333.7	286.3	269.3	249.0	220.2	176.2	142.3	123.7	122.0
55°	7599.3	3301.6	301.5	257.5	235.5	211.8	183.0	140.6	105.0	89.8	86.4
57.5°	7421.4	2844.2	269.3	228.7	201.6	177.9	145.7	105.0	71.1	57.6	55.9
60°	6942.0	2220.8	237.2	196.5	171.1	145.7	115.2	74.5	44.0	32.2	32.2
62.5°	6132.3	1648.3	206.7	164.3	144.0	116.9	81.3	47.4	23.7	16.9	15.2
65°	5124.4	1216.3	172.8	138.9	120.3	91.5	57.6	28.8	11.9	5.1	3.4
67.5°	3576.0	750.4	144.0	113.5	98.3	66.1	35.6	11.9	5.1	0.0	0.0
70°	1624.5	357.4	110.1	86.4	74.5	47.4	18.6	6.8	3.4	0.0	0.0
72.5°	504.8	188.0	77.9	62.7	50.8	30.5	10.2	5.1	3.4	0.0	0.0
75°	233.8	120.3	49.1	33.9	28.8	15.2	6.8	3.4	1.7	0.0	0.0
77.5°	174.5	93.2	28.8	18.6	15.2	10.2	5.1	3.4	1.7	0.0	0.0
80°	152.5	47.4	16.9	11.9	8.5	6.8	3.4	1.7	0.0	0.0	0.0
82.5°	137.2	23.7	10.2	6.8	5.1	3.4	1.7	1.7	0.0	0.0	0.0
85°	74.5	13.6	6.8	5.1	3.4	1.7	1.7	0.0	0.0	0.0	0.0
87.5°	13.6	6.8	5.1	3.4	3.4	1.7	1.7	1.7	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)