

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: P455456

Luminaire Tested: **GALN-SA6C-827-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455456  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
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-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22910 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G4

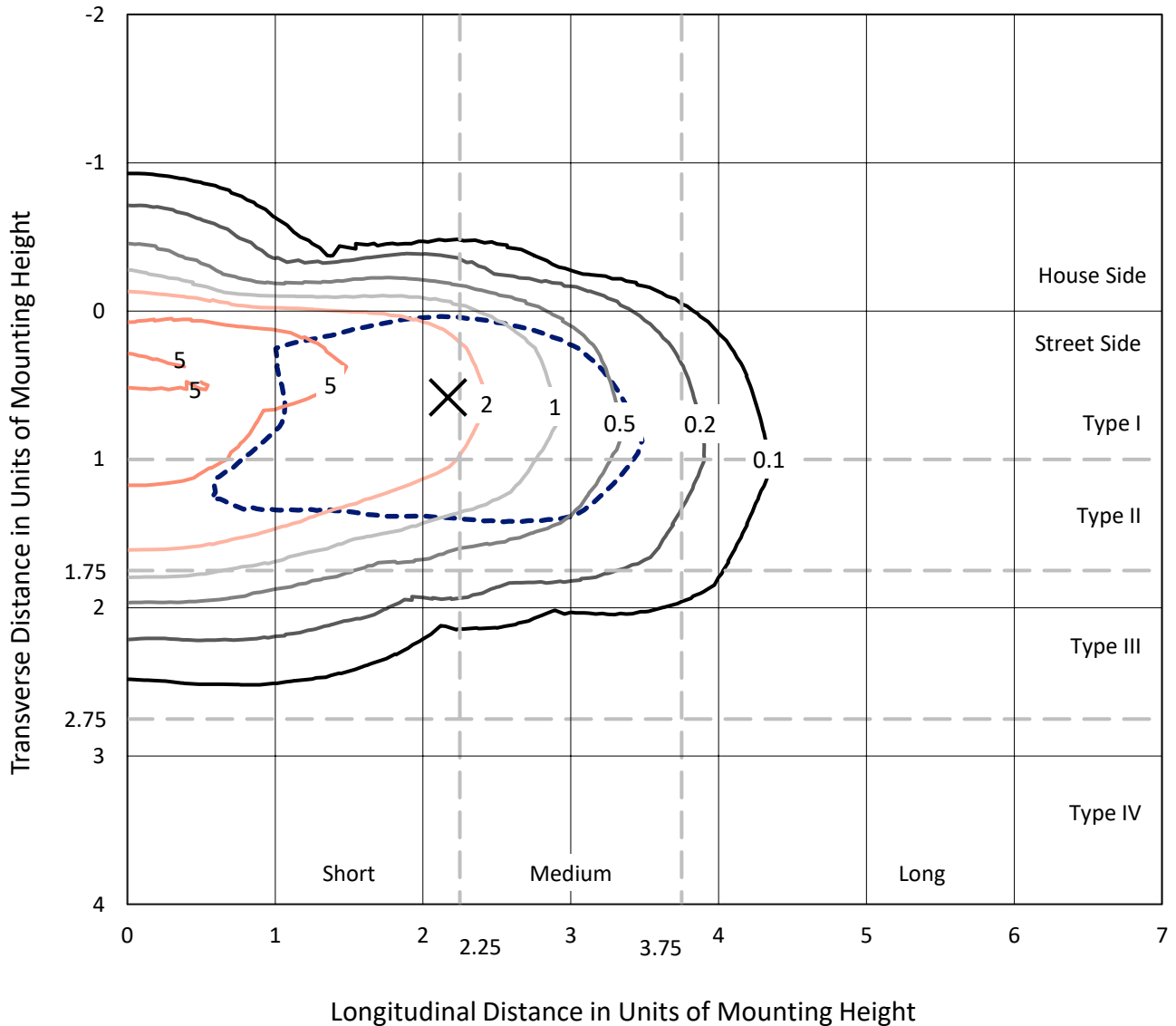
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

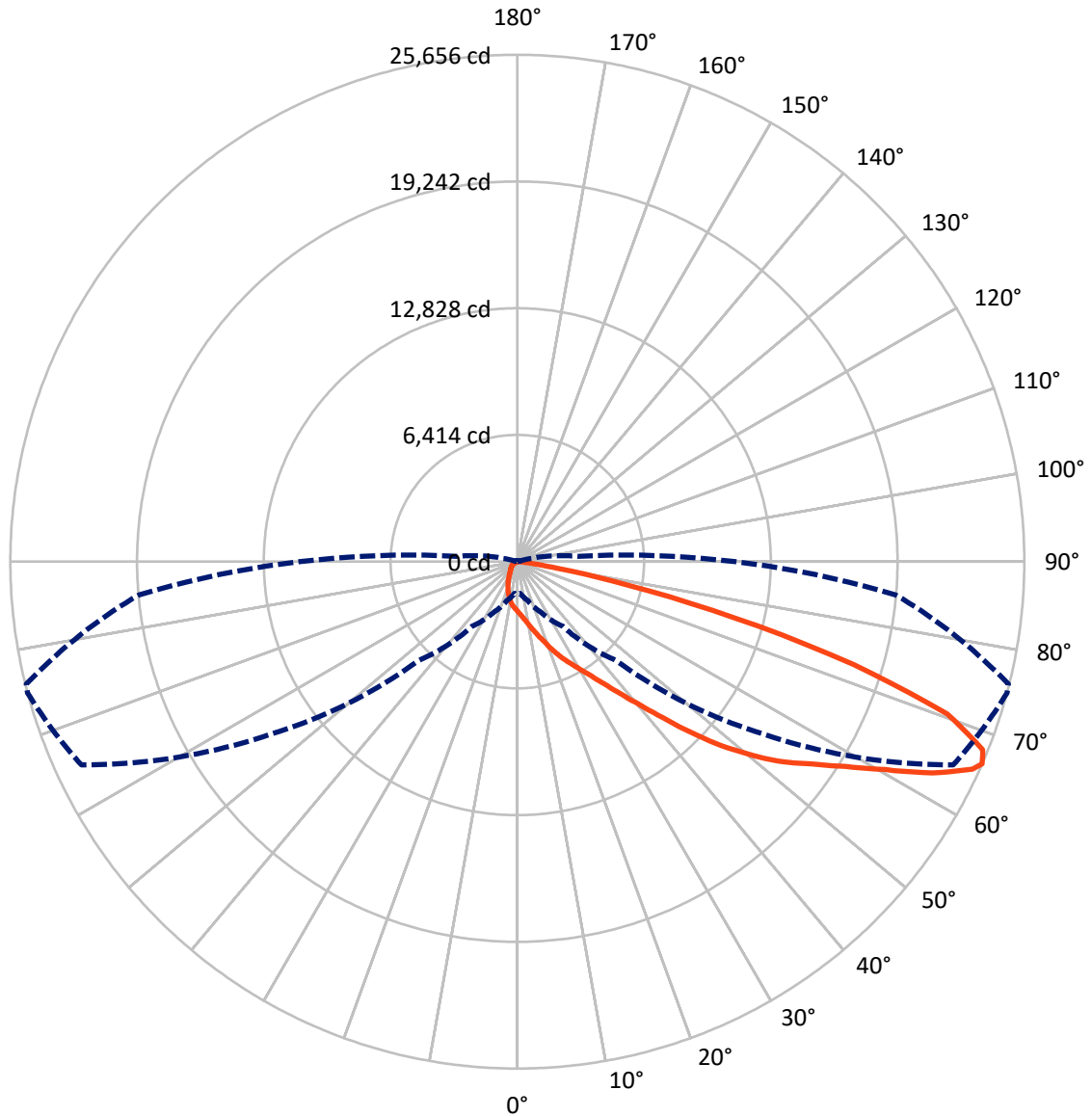
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1414.4	0.0	1414.4
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	21495.6	0.0	21495.6
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	22910.0	0.0	22910.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.7	1.1
10°-20°	711.2	3.1
20°-30°	1228.1	5.4
30°-40°	2215.2	9.7
40°-50°	4001.8	17.5
50°-60°	6238.9	27.2
60°-70°	5926.7	25.9
70°-80°	2221.2	9.7
80°-90°	125.3	0.5
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°	22910.0	100.0
0°-180°	22910.0	100.0

**Coefficient of Utilization**



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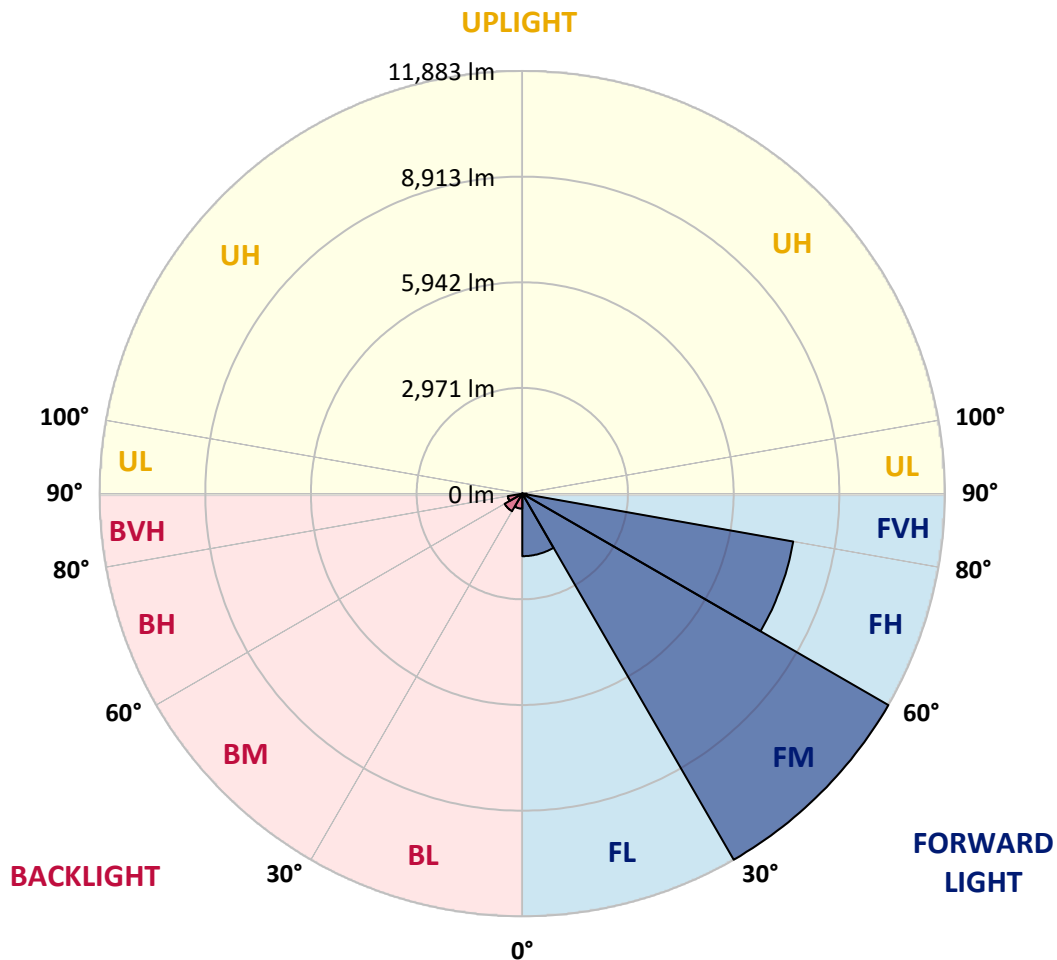
CATALOG NUMBER: GALN-SA6C-827-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1758.5	7.7			
FM (30°-60°)	11883.4	51.9			
FH (60°-80°)	7734.8	33.8			G4/12000
FVH (80°-90°)	118.8	0.5			G2/225
BL (0°-30°)	422.4	1.8	B1/500		
BM (30°-60°)	572.5	2.5	B1/1000		
BH (60°-80°)	413.0	1.8	B1/500		G1/500
BVH (80°-90°)	6.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4
2.5°	2993.3	2956.0	2967.9	2951.0	2912.0	2854.4	2803.6	2730.7	2657.9	2646.0	2564.7
5°	3388.0	3377.8	3364.3	3315.2	3288.1	3200.0	3094.9	2969.6	2818.8	2791.7	2644.3
7.5°	3657.4	3652.3	3659.1	3633.6	3609.9	3530.3	3418.5	3247.4	3013.6	2998.4	2752.8
10°	3745.4	3759.0	3784.4	3825.1	3862.3	3836.9	3752.2	3538.8	3266.0	3222.0	2876.4
12.5°	3694.6	3709.9	3770.9	3879.3	3999.5	4069.0	4035.1	3879.3	3533.7	3498.1	3015.3
15°	3564.2	3582.8	3669.2	3836.9	4052.1	4248.6	4333.3	4221.5	3845.4	3787.8	3183.0
17.5°	3371.1	3398.2	3521.8	3743.8	4038.5	4377.3	4616.2	4578.9	4177.4	4123.2	3366.0
20°	3225.4	3245.7	3350.7	3604.8	3980.9	4448.5	4885.5	4990.5	4587.4	4494.2	3581.1
22.5°	3321.9	3328.7	3364.3	3516.8	3877.6	4467.1	5122.7	5419.1	5022.7	4939.7	3804.7
25°	3794.6	3726.8	3691.2	3657.4	3855.6	4450.2	5337.8	5866.3	5456.4	5368.3	4026.7
27.5°	4539.9	4509.4	4329.9	4089.3	4043.6	4472.2	5480.1	6289.8	5864.6	5769.8	4243.5
30°	5351.4	5298.9	5188.7	4836.4	4482.3	4628.0	5583.4	6701.5	6347.4	6222.1	4441.7
32.5°	6096.7	6130.6	5966.3	5603.8	5193.8	4960.0	5717.3	7150.4	6901.4	6745.5	4672.1
35°	6965.8	7033.5	6781.1	6433.8	5954.4	5559.7	5978.1	7656.9	7604.4	7407.9	5027.8
37.5°	7848.3	7889.0	7734.8	7247.0	6815.0	6322.0	6469.4	8282.0	8470.0	8302.3	5453.0
40°	8590.3	8646.2	8532.7	8099.0	7638.3	7204.6	7182.6	8963.0	9500.0	9327.2	6086.6
42.5°	9157.8	9200.1	9203.5	8896.9	8481.9	8285.4	8092.3	9832.0	10790.8	10590.9	6821.8
45°	9874.4	9935.3	9899.8	9691.4	9381.4	9345.8	9245.9	10882.3	12335.8	12083.3	7775.5
47.5°	10982.2	11022.9	10934.8	10689.2	10374.1	10430.0	10370.7	12059.6	13911.2	13694.3	8763.1
50°	11751.3	11819.1	11944.4	12042.7	11814.0	11607.3	11431.2	13159.0	15407.0	15212.2	9772.7
52.5°	11742.9	11854.7	12251.1	12745.7	13245.4	13182.8	12676.2	14373.6	16835.0	16594.5	10721.4
55°	10951.7	11168.6	11751.3	12628.8	14012.8	14702.3	14471.9	15779.7	18068.3	17905.6	11820.8
57.5°	9318.7	9450.9	10260.6	11487.1	13584.2	15417.1	16552.1	17685.4	19547.1	19470.9	13528.3
60°	6267.8	6327.1	7368.9	8885.1	11565.0	14704.0	18076.7	19991.0	21368.2	21330.9	15522.2
62.5°	3591.3	3616.7	4372.2	5651.2	8229.5	12461.1	18205.5	22835.2	23551.8	23572.1	17829.4
65°	1932.9	1946.4	2556.3	3316.9	5007.5	8881.7	16370.9	24393.7	25316.9	25355.9	19259.2
66°	1668.6	1604.2	2034.5	2827.3	3984.3	7069.1	15210.5	24337.8	25655.7	25613.4	19208.3
67.5°	1268.8	1326.4	1624.6	2173.4	2952.7	5026.1	12557.7	23255.3	25398.2	25266.1	18427.4
70°	908.0	931.7	1157.0	1550.0	2010.8	2757.8	8024.5	19315.1	23084.2	22906.3	16054.1
72.5°	586.1	611.5	819.9	1121.4	1453.5	1506.0	4492.5	13955.2	17797.2	17771.8	12090.1
75°	418.4	442.1	542.1	803.0	1092.6	931.7	2163.2	9405.1	11314.3	11238.0	7479.0
77.5°	303.2	315.1	362.5	525.1	780.9	667.4	1002.9	5022.7	5632.6	5898.5	3305.0
80°	174.5	184.6	252.4	320.2	528.5	455.7	479.4	2015.9	2078.5	1978.6	1033.3
82.5°	86.4	98.3	150.8	218.5	330.3	306.6	220.2	606.5	640.3	623.4	260.9
85°	20.3	25.4	84.7	144.0	160.9	137.2	106.7	177.9	220.2	215.1	99.9
87.5°	1.7	3.4	30.5	25.4	27.1	45.7	37.3	45.7	71.1	66.1	35.6
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°	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4	2505.4
2.5°	2527.5	2495.3	2402.1	2310.6	2234.4	2154.8	2081.9	2039.6	2022.6	2004.0	2012.5
5°	2563.0	2485.1	2297.1	2134.4	1975.2	1839.7	1731.3	1661.8	1627.9	1622.9	1614.4
7.5°	2610.5	2476.6	2185.3	1931.2	1722.8	1572.0	1448.4	1348.4	1317.9	1290.8	1268.8
10°	2668.1	2461.4	2046.4	1717.7	1495.8	1306.1	1143.5	1024.9	963.9	946.9	958.8
12.5°	2729.0	2432.6	1900.7	1521.2	1265.4	1023.2	872.4	813.1	796.2	789.4	791.1
15°	2790.0	2397.0	1748.2	1331.5	1007.9	816.5	747.1	731.8	725.0	721.6	718.3
17.5°	2845.9	2339.4	1577.1	1146.8	816.5	697.9	672.5	659.0	645.4	640.3	631.9
20°	2912.0	2273.4	1423.0	940.2	691.2	631.9	601.4	576.0	555.6	542.1	540.4
22.5°	2974.7	2188.7	1262.0	779.2	630.2	567.5	518.4	491.3	467.5	450.6	455.7
25°	3008.6	2085.3	1118.0	679.3	574.3	503.1	448.9	415.0	389.6	381.2	379.5
27.5°	3008.6	1958.3	977.4	621.7	523.4	445.5	389.6	357.4	340.5	328.6	330.3
30°	2984.8	1817.7	847.0	577.7	479.4	394.7	342.2	313.4	299.8	291.4	289.7
32.5°	2966.2	1683.8	735.2	535.3	433.7	350.7	304.9	282.9	269.3	260.9	260.9
35°	2995.0	1568.6	648.8	493.0	391.3	316.8	276.1	255.8	242.2	235.5	233.8
37.5°	3071.2	1463.6	582.7	447.2	352.4	288.0	255.8	232.1	218.5	210.1	206.7
40°	3259.3	1404.3	533.6	404.9	315.1	264.3	232.1	210.1	193.1	184.6	183.0
42.5°	3560.8	1406.0	486.2	365.9	286.3	243.9	211.8	186.3	167.7	159.2	157.5
45°	4014.8	1470.4	448.9	328.6	260.9	221.9	189.7	162.6	145.7	137.2	137.2
47.5°	4558.6	1595.8	416.7	296.5	237.2	201.6	167.7	140.6	123.7	116.9	116.9
50°	5148.1	1758.4	384.5	262.6	216.8	179.6	144.0	122.0	108.4	103.3	103.3
52.5°	5749.5	1954.9	352.4	235.5	194.8	155.8	123.7	108.4	96.6	93.2	91.5
55°	6538.9	2205.6	318.5	206.7	171.1	133.8	110.1	94.9	81.3	76.2	74.5
57.5°	7753.5	2583.4	281.2	181.3	140.6	111.8	94.9	79.6	64.4	55.9	54.2
60°	9218.8	3044.1	242.2	159.2	113.5	91.5	76.2	61.0	47.4	37.3	35.6
62.5°	10590.9	3337.2	205.0	133.8	89.8	69.5	54.2	45.7	33.9	23.7	22.0
65°	11197.4	3238.9	169.4	108.4	71.1	49.1	35.6	32.2	20.3	10.2	8.5
66°	10995.8	3093.3	155.8	98.3	64.4	42.4	30.5	27.1	15.2	5.1	5.1
67.5°	10401.2	2749.4	135.5	84.7	55.9	33.9	23.7	20.3	8.5	1.7	0.0
70°	8912.2	2224.2	106.7	62.7	40.7	23.7	13.6	10.2	5.1	0.0	0.0
72.5°	6845.5	1656.7	84.7	47.4	28.8	13.6	6.8	3.4	5.1	0.0	0.0
75°	4194.4	946.9	66.1	35.6	18.6	8.5	5.1	0.0	5.1	1.7	0.0
77.5°	1861.7	425.2	44.0	23.7	13.6	6.8	3.4	0.0	3.4	1.7	0.0
80°	470.9	138.9	25.4	16.9	10.2	5.1	1.7	0.0	3.4	3.4	1.7
82.5°	128.7	50.8	18.6	13.6	8.5	5.1	1.7	0.0	3.4	3.4	3.4
85°	50.8	23.7	16.9	13.6	10.2	5.1	1.7	0.0	3.4	3.4	3.4
87.5°	23.7	16.9	16.9	15.2	11.9	5.1	1.7	0.0	3.4	1.7	3.4
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)