

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: P455072

Luminaire Tested: **GALN-SA6B-727-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455072  
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-SA6B-727-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA 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: 23212 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

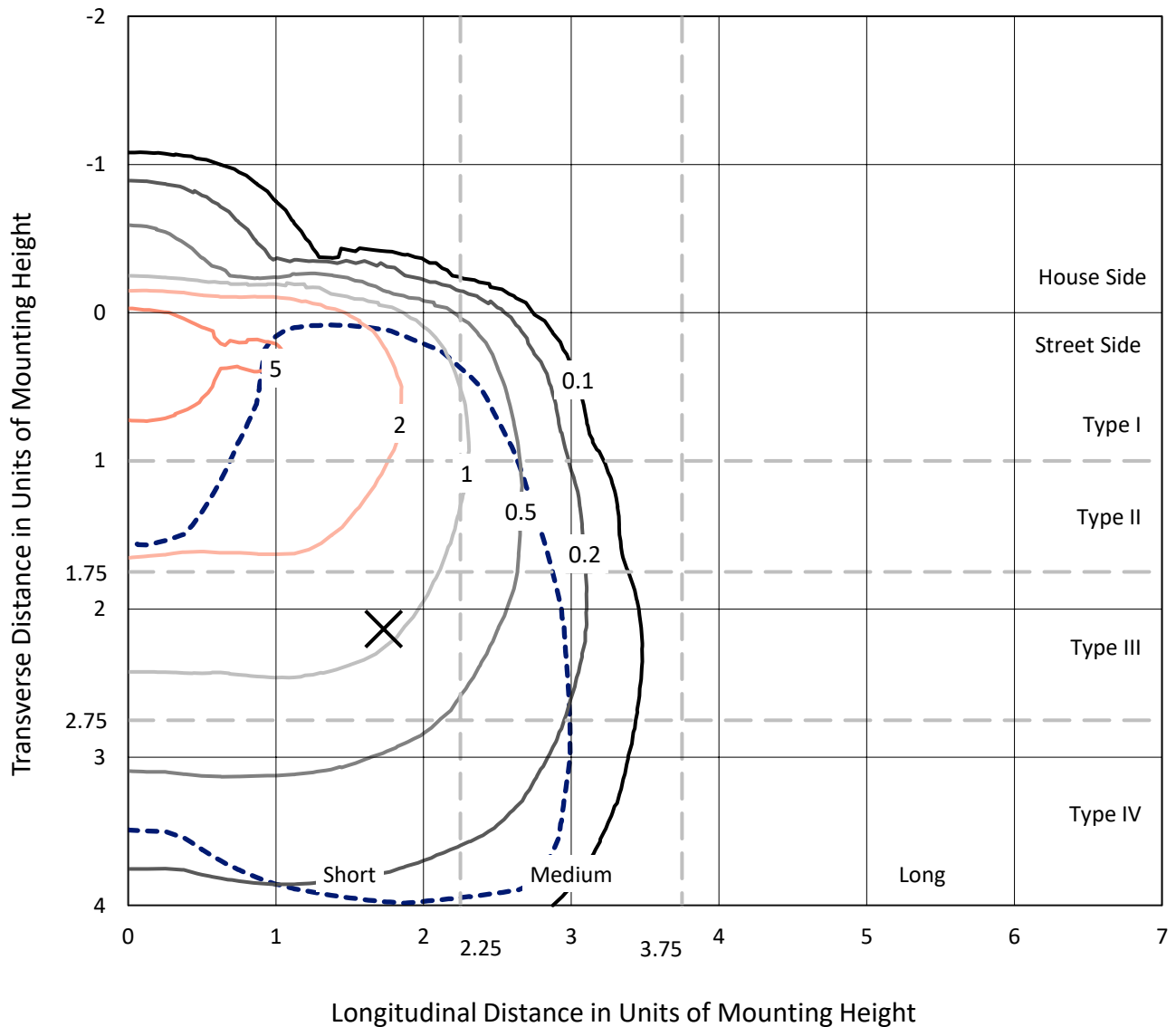
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

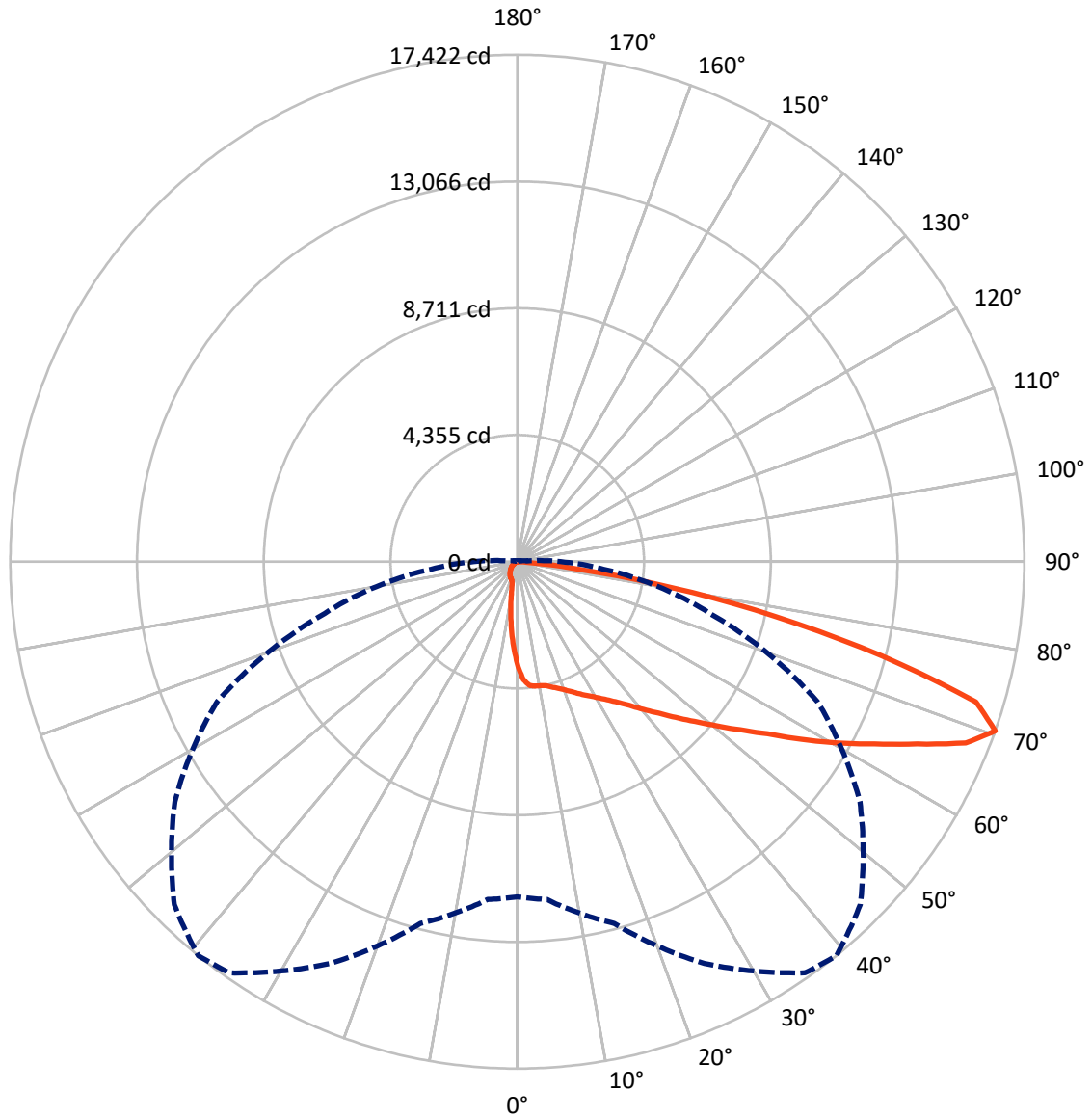
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1513.5	0.0	1513.5
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	21698.5	0.0	21698.5
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	23212.0	0.0	23212.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.9	1.3
10°-20°	802.8	3.5
20°-30°	1344.9	5.8
30°-40°	2085.8	9.0
40°-50°	3305.3	14.2
50°-60°	4845.1	20.9
60°-70°	6210.3	26.8
70°-80°	3902.3	16.8
80°-90°	406.5	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°	23212.0	100.0
0°-180°	23212.0	100.0

**Coefficient of Utilization**



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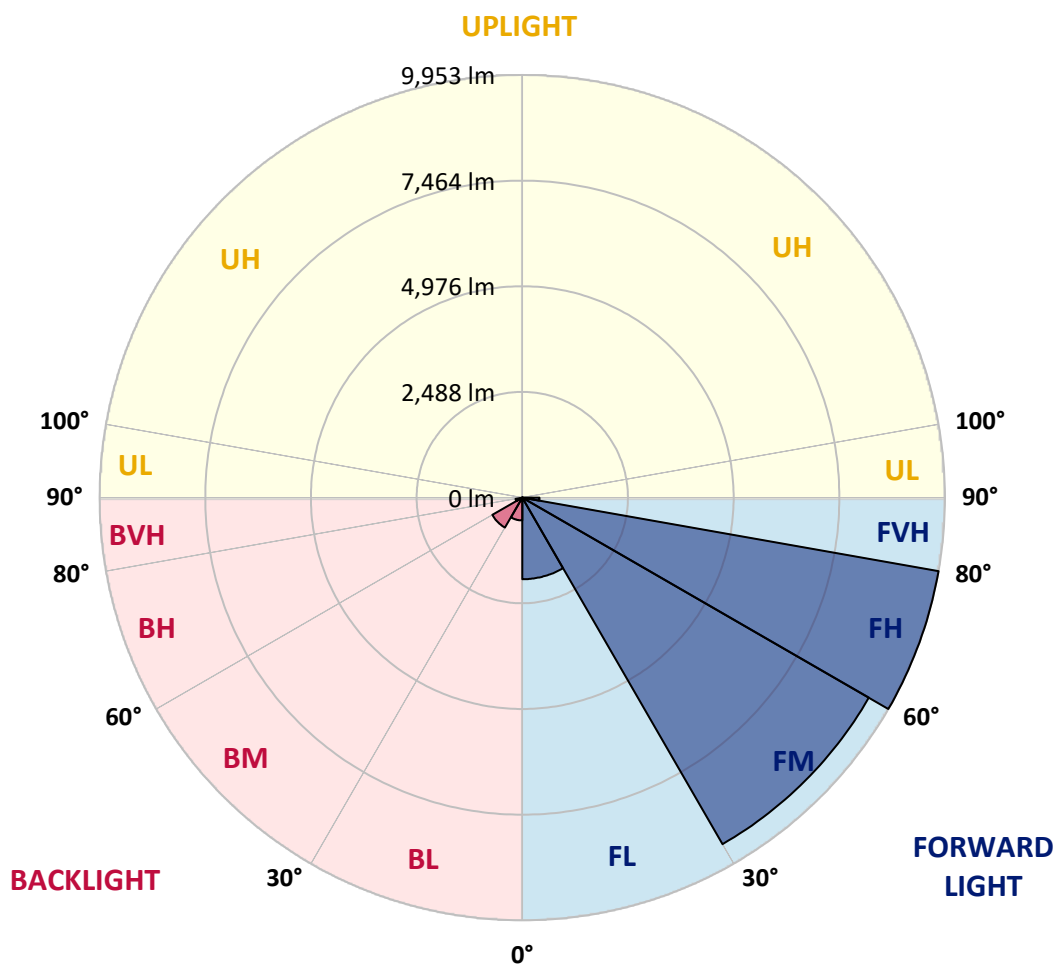
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1920.7	8.3			
FM	(30°-60°)	9421.7	40.6			
FH	(60°-80°)	9952.5	42.9			G4/12000
FVH	(80°-90°)	403.5	1.7			G3/500
BL	(0°-30°)	535.9	2.3	B2/1000		
BM	(30°-60°)	814.5	3.5	B1/1000		
BH	(60°-80°)	160.1	0.7	B1/500		G1/500
BVH	(80°-90°)	3.0	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9
2.5°	4185.0	4170.9	4152.2	4130.4	4068.0	4057.1	4019.6	3940.1	3844.9	3766.9	3659.3
5°	4383.1	4390.9	4376.8	4337.8	4292.6	4266.1	4219.3	4096.0	3972.8	3815.3	3639.0
7.5°	4428.3	4443.9	4426.7	4389.3	4345.6	4317.5	4280.1	4174.0	4030.5	3851.2	3609.4
10°	4423.6	4442.3	4431.4	4397.1	4361.2	4334.7	4294.1	4209.9	4094.5	3905.8	3618.7
12.5°	4415.8	4440.8	4439.2	4422.0	4392.4	4372.1	4347.2	4272.3	4164.7	3985.3	3670.2
15°	4394.0	4425.2	4453.2	4467.3	4468.8	4468.8	4437.6	4358.1	4255.1	4089.8	3737.3
17.5°	4403.3	4439.2	4509.4	4550.0	4578.0	4574.9	4542.2	4456.4	4342.5	4197.4	3807.5
20°	4461.0	4509.4	4607.7	4688.8	4716.9	4707.5	4663.8	4564.0	4434.5	4289.5	3876.1
22.5°	4603.0	4646.7	4769.9	4865.0	4885.3	4860.4	4798.0	4662.3	4545.3	4389.3	3958.8
25°	4815.1	4866.6	4980.5	5052.2	5052.2	5038.2	4950.8	4791.7	4670.1	4528.1	4066.4
27.5°	5072.5	5116.2	5228.5	5292.4	5255.0	5214.4	5127.1	4935.2	4818.2	4702.8	4195.9
30°	5333.0	5361.1	5479.6	5507.7	5468.7	5417.2	5323.6	5131.8	5028.8	4939.9	4383.1
32.5°	5579.4	5640.3	5738.5	5732.3	5679.3	5654.3	5568.5	5364.2	5306.5	5297.1	4645.1
35°	5825.9	5872.7	5960.0	5981.9	5935.1	5930.4	5868.0	5716.7	5718.2	5779.1	5053.8
37.5°	6038.0	6080.1	6183.1	6231.4	6240.8	6264.2	6239.2	6139.4	6281.3	6448.2	5595.0
40°	6215.8	6275.1	6406.1	6490.4	6587.1	6672.8	6677.5	6699.4	6984.8	7271.8	6301.6
42.5°	6354.6	6437.3	6627.6	6783.6	7005.1	7114.3	7201.6	7321.7	7802.1	8231.1	7134.5
45°	6535.6	6630.7	6867.8	7112.7	7459.0	7638.4	7760.0	8081.4	8763.0	9347.9	7989.3
47.5°	6835.1	6885.0	7126.8	7483.9	7939.4	8195.2	8432.3	8919.0	9794.0	10318.1	8700.6
50°	7220.3	7253.1	7435.6	7931.6	8521.2	8858.1	9290.2	9862.6	10864.0	11123.0	9103.0
52.5°	7646.2	7657.1	7794.3	8424.5	9173.2	9597.5	10081.0	10787.6	11736.0	11697.0	9369.8
55°	8140.6	8125.0	8242.0	8959.5	9945.3	10430.4	10993.5	11734.4	12492.5	12104.1	9522.6
57.5°	8706.8	8664.7	8778.6	9669.2	10934.2	11514.5	12086.9	12551.8	13079.0	12445.7	9595.9
60°	9299.6	9215.3	9351.0	10466.3	12099.4	12650.0	13125.8	13250.5	13696.7	12717.1	9469.6
62.5°	9772.2	9773.7	10026.4	11314.8	13297.3	13779.3	14032.0	14144.3	14228.5	12657.8	8805.1
65°	10510.0	10534.9	10938.9	12492.5	14684.0	15102.0	15275.2	14910.2	14251.9	11921.6	7806.8
67.5°	11271.2	11350.7	12090.1	14114.7	16285.9	16622.8	16399.8	15058.4	13615.5	10241.7	5919.5
70°	11519.2	11650.2	12868.4	15231.5	17246.8	17421.5	16666.5	14367.4	11381.9	6847.5	2979.2
72.5°	10555.2	10767.3	12420.7	14824.4	16633.8	16482.5	14911.7	12049.5	7235.9	2600.2	909.4
75°	7443.4	7537.0	10322.8	12297.5	13378.5	12949.5	11342.9	7767.8	2976.1	730.0	312.0
77.5°	3843.4	3798.1	6139.4	8159.3	9541.3	9096.8	7427.8	4021.2	1127.7	304.2	193.4
80°	1987.2	2019.9	2656.3	4275.4	5824.3	5359.5	3960.3	1864.0	600.5	168.5	148.2
82.5°	1113.7	1045.1	1527.0	1867.1	2723.4	2135.4	1519.3	1319.6	262.0	101.4	140.4
85°	202.8	212.1	837.6	1009.2	945.2	600.5	489.8	881.3	76.4	56.2	98.3
87.5°	3.1	3.1	162.2	290.1	184.1	84.2	154.4	126.3	15.6	21.8	17.2
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°	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9
2.5°	3604.7	3545.4	3434.7	3325.5	3186.7	3072.8	2996.4	2916.8	2835.7	2842.0	2860.7
5°	3542.3	3439.4	3221.0	2990.1	2768.7	2569.0	2372.5	2196.2	2124.5	2058.9	2062.1
7.5°	3479.9	3334.9	3015.1	2653.2	2317.9	1977.8	1731.4	1528.6	1421.0	1339.9	1316.5
10°	3451.8	3260.0	2826.4	2328.8	1853.0	1481.8	1165.2	999.8	871.9	831.4	842.3
12.5°	3464.3	3222.6	2656.3	2035.5	1469.3	1032.6	811.1	726.9	698.8	694.1	691.0
15°	3487.7	3196.0	2489.4	1711.1	1079.4	767.4	681.6	666.0	662.9	659.8	661.4
17.5°	3518.9	3172.6	2311.6	1406.9	828.3	670.7	645.8	638.0	636.4	636.4	636.4
20°	3550.1	3146.1	2113.5	1135.5	691.0	633.3	617.7	613.0	611.4	611.4	609.9
22.5°	3586.0	3122.7	1912.3	892.2	636.4	606.8	592.7	589.6	588.0	586.5	586.5
25°	3637.5	3093.1	1698.6	730.0	602.1	581.8	567.8	564.6	563.1	556.9	558.4
27.5°	3706.1	3071.3	1478.7	630.2	570.9	550.6	541.3	536.6	533.5	528.8	530.3
30°	3799.7	3052.5	1244.7	575.6	535.0	517.9	508.5	505.4	502.3	497.6	497.6
32.5°	3961.9	3060.3	998.3	531.9	502.3	482.0	472.6	469.5	466.4	461.7	461.7
35°	4205.2	3105.6	798.6	494.5	463.3	443.0	433.6	433.6	428.9	422.7	421.1
37.5°	4603.0	3221.0	641.1	458.6	425.8	407.1	396.2	393.1	388.4	379.0	377.5
40°	5072.5	3400.4	539.7	422.7	391.5	372.8	363.4	354.1	341.6	332.2	330.7
42.5°	5662.1	3584.4	467.9	386.8	358.8	341.6	330.7	315.1	296.4	283.9	282.3
45°	6276.7	3752.9	419.6	354.1	327.6	313.5	301.0	276.1	252.7	237.1	235.5
47.5°	6735.2	3784.1	380.6	322.9	301.0	287.0	269.8	238.7	207.5	193.4	188.7
50°	6952.1	3632.8	340.0	291.7	274.5	258.9	237.1	201.2	166.9	149.7	146.6
52.5°	7028.5	3370.7	307.3	263.6	248.0	229.3	202.8	162.2	131.0	113.9	112.3
55°	6997.3	3040.1	277.6	237.1	216.8	195.0	168.5	129.5	96.7	82.7	79.6
57.5°	6833.5	2618.9	248.0	210.6	185.6	163.8	134.1	96.7	65.5	53.0	51.5
60°	6392.1	2044.9	218.4	180.9	157.5	134.1	106.1	68.6	40.6	29.6	29.6
62.5°	5646.5	1517.7	190.3	151.3	132.6	107.6	74.9	43.7	21.8	15.6	14.0
65°	4718.4	1119.9	159.1	127.9	110.7	84.2	53.0	26.5	10.9	4.7	3.1
67.5°	3292.7	691.0	132.6	104.5	90.5	60.8	32.8	10.9	4.7	0.0	0.0
70°	1495.9	329.1	101.4	79.6	68.6	43.7	17.2	6.2	3.1	0.0	0.0
72.5°	464.8	173.1	71.8	57.7	46.8	28.1	9.4	4.7	3.1	0.0	0.0
75°	215.3	110.7	45.2	31.2	26.5	14.0	6.2	3.1	1.6	0.0	0.0
77.5°	160.7	85.8	26.5	17.2	14.0	9.4	4.7	3.1	1.6	0.0	0.0
80°	140.4	43.7	15.6	10.9	7.8	6.2	3.1	1.6	0.0	0.0	0.0
82.5°	126.3	21.8	9.4	6.2	4.7	3.1	1.6	1.6	0.0	0.0	0.0
85°	68.6	12.5	6.2	4.7	3.1	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	12.5	6.2	4.7	3.1	3.1	1.6	1.6	1.6	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)