

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: P455319

Luminaire Tested: **GALN-SA6C-727-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
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-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25106 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

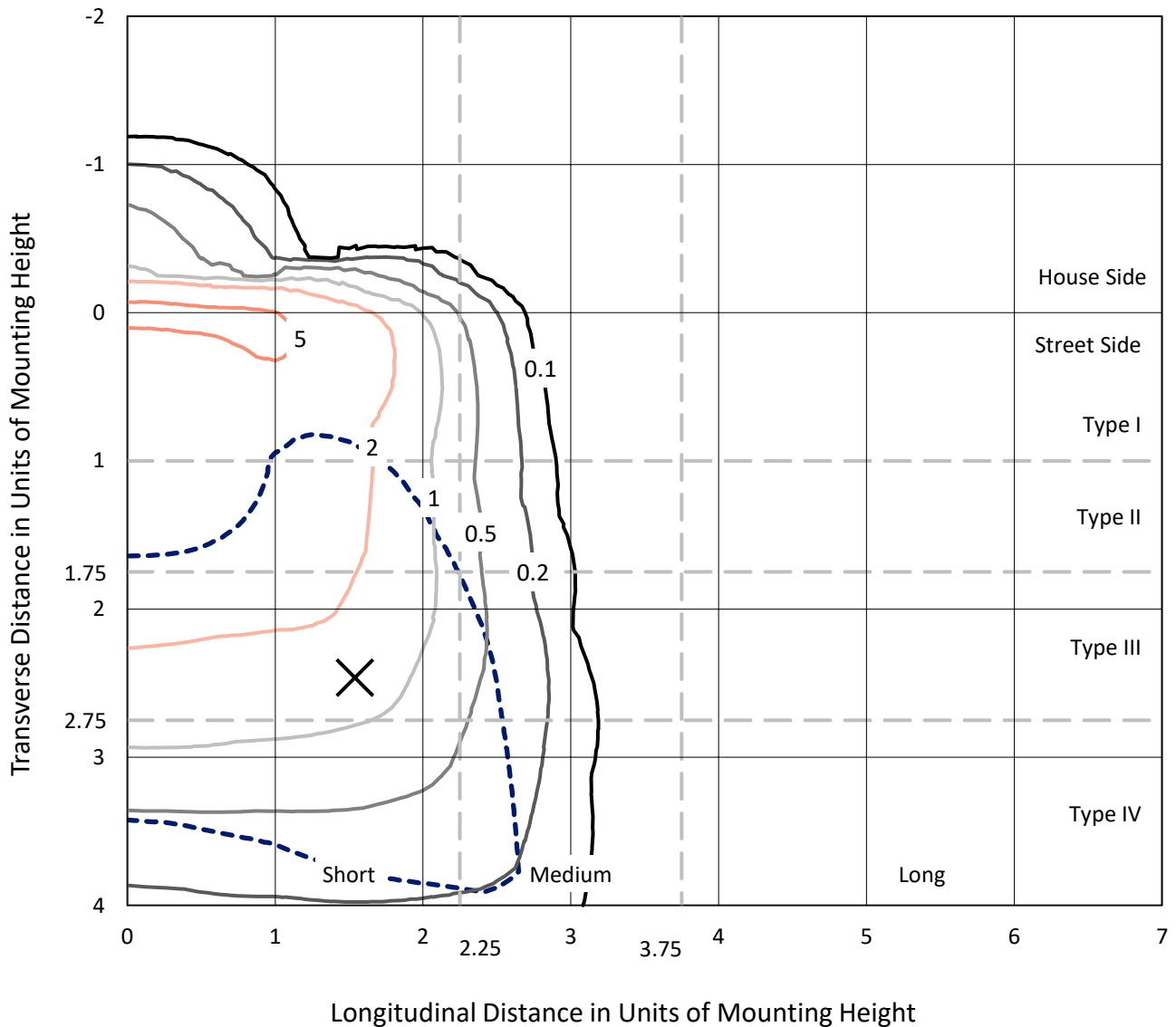
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

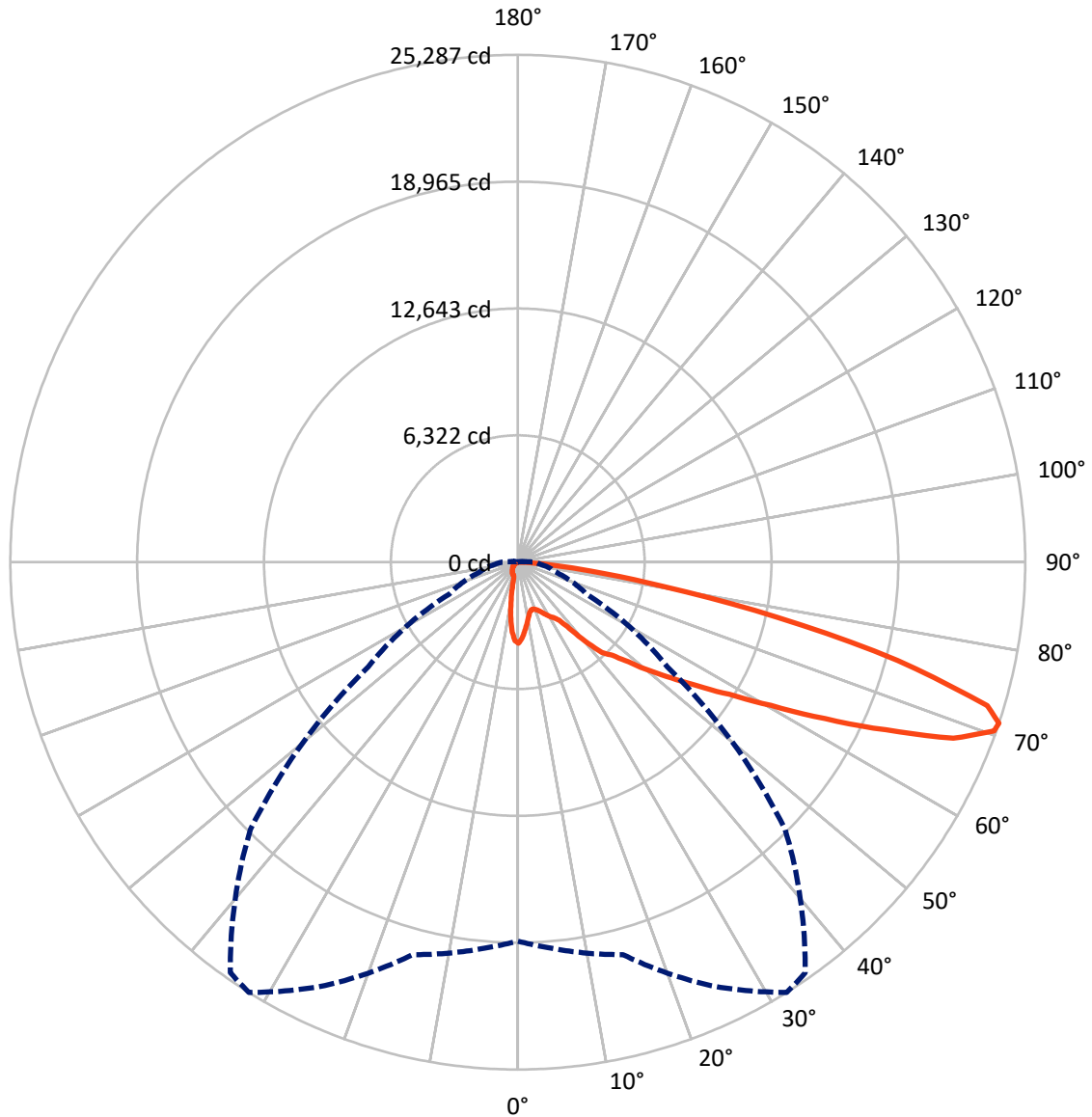
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2102.9	0.0	2102.9
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	23003.1	0.0	23003.1
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	25106.0	0.0	25106.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.3	1.3
10°-20°	712.5	2.8
20°-30°	1108.4	4.4
30°-40°	1846.7	7.4
40°-50°	3435.1	13.7
50°-60°	5515.2	22.0
60°-70°	7418.2	29.5
70°-80°	4401.3	17.5
80°-90°	340.2	1.4
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°	25106.0	100.0
0°-180°	25106.0	100.0



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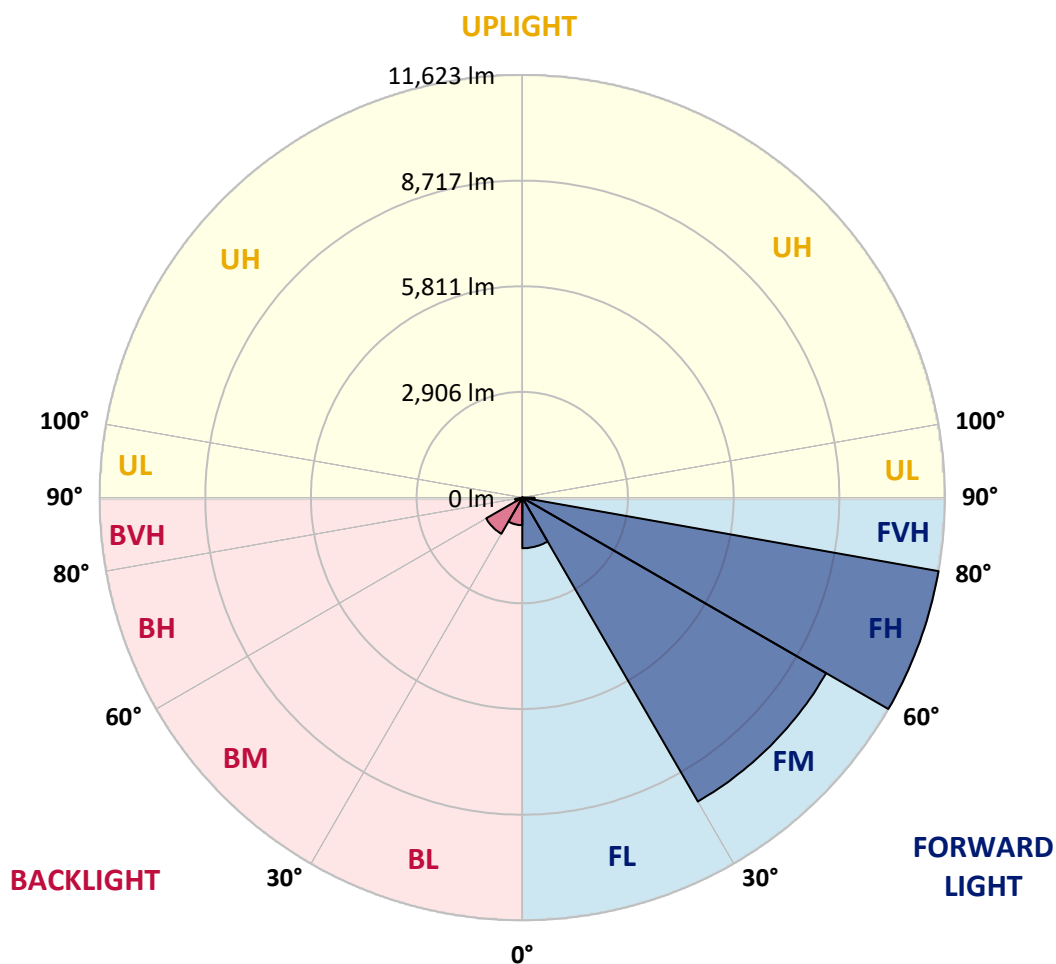
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1391.5	5.5			
FM	(30°-60°)	9649.8	38.4			
FH	(60°-80°)	11622.9	46.3			G4/12000
FVH	(80°-90°)	338.9	1.3			G3/500
BL	(0°-30°)	757.7	3.0	B2/1000		
BM	(30°-60°)	1147.2	4.6	B2/2500		
BH	(60°-80°)	196.7	0.8	B1/500		G1/500
BVH	(80°-90°)	1.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4037.4	4037.4	4037.4	4037.4	4037.4	4037.4	4037.4	4037.4	4037.4	4037.4	4037.4
2.5°	3744.5	3783.0	3777.3	3790.8	3823.5	3837.0	3873.6	3914.1	3970.0	4008.5	4033.6
5°	3353.3	3382.2	3386.1	3453.5	3486.3	3522.9	3630.8	3748.4	3879.4	3983.5	4052.9
7.5°	2935.1	2950.5	2981.3	3070.0	3152.9	3189.5	3353.3	3557.6	3763.8	3958.4	4083.7
10°	2590.1	2607.5	2663.4	2757.8	2834.9	2883.1	3110.5	3366.8	3655.9	3944.9	4128.0
12.5°	2393.6	2403.2	2424.4	2509.2	2607.5	2659.5	2904.3	3197.2	3569.1	3950.7	4203.2
15°	2380.1	2376.2	2351.2	2385.8	2474.5	2528.5	2767.4	3081.6	3492.0	3970.0	4291.8
17.5°	2451.4	2441.7	2382.0	2382.0	2455.2	2499.5	2709.6	3019.9	3453.5	4014.3	4417.1
20°	2561.2	2545.8	2447.5	2439.8	2511.1	2557.4	2744.3	3023.7	3461.2	4097.2	4584.8
22.5°	2700.0	2682.6	2534.2	2538.1	2615.2	2661.4	2844.5	3093.1	3509.4	4199.3	4764.0
25°	2881.1	2861.9	2686.5	2678.8	2759.7	2800.2	2992.9	3216.5	3576.8	4326.5	4999.1
27.5°	3122.0	3081.6	2871.5	2859.9	2946.7	2998.7	3172.1	3382.2	3696.3	4501.9	5315.2
30°	3320.5	3276.2	3075.8	3044.9	3137.4	3177.9	3357.1	3605.7	3931.4	4808.3	5752.6
32.5°	3580.7	3515.2	3280.1	3199.1	3297.4	3349.4	3625.0	4022.0	4280.3	5132.1	6273.0
35°	4166.6	4126.1	3838.9	3555.6	3549.9	3615.4	4020.1	4442.1	4638.7	5637.0	6982.2
37.5°	5004.9	4976.0	4671.5	4291.8	4182.0	4151.1	4500.0	4904.7	5211.1	6330.8	7807.0
40°	5978.1	5910.7	5631.2	5309.4	5166.8	5076.2	5066.5	5592.7	5958.8	7273.2	8666.5
42.5°	6675.7	6552.4	6213.2	6190.1	6159.3	6064.8	5791.2	6598.7	6924.3	8286.9	9585.8
45°	7408.1	7221.1	6716.2	6629.5	6617.9	6612.1	6885.8	7789.7	7976.6	9385.4	10530.1
47.5°	7976.6	7828.2	7413.9	7375.3	7423.5	7554.5	8333.1	9053.9	9015.3	10364.4	11322.2
50°	8734.0	8622.2	8161.6	8234.8	8483.4	8697.4	9965.4	10431.8	9869.1	11135.2	11898.4
52.5°	9628.2	9422.0	8994.1	9192.6	9574.2	9930.7	11698.0	11638.2	10468.4	11715.3	12328.2
55°	10402.9	10256.4	10110.0	10316.2	10886.6	11331.8	13262.8	12542.1	10904.0	12181.7	12517.0
57.5°	11713.4	11678.7	11528.4	11738.4	12430.3	12892.8	14663.9	13243.6	11183.4	12424.5	12295.4
60°	13652.1	13596.2	13316.8	13584.7	14486.6	15213.1	15955.1	13873.8	11247.0	12330.1	11657.5
62.5°	15984.0	15793.2	15554.2	15949.3	17186.6	17506.5	17171.2	14247.6	11010.0	11578.5	10119.6
65°	18161.7	17965.1	17970.9	18803.5	20150.6	20368.3	18589.6	14191.7	10316.2	9695.6	7464.0
67.5°	19828.7	19796.0	20031.1	21655.7	23417.1	23266.8	19857.6	13355.3	8259.9	6284.5	3966.1
70°	19913.5	19977.1	20651.6	23394.0	25182.4	24943.5	19749.7	10855.8	5149.4	2890.8	1562.9
71°	18888.3	19316.1	20248.9	23340.0	25286.5	24976.2	18840.1	9092.4	3777.3	2015.8	1127.4
72.5°	16095.8	16321.3	18337.1	21966.0	24463.6	23800.6	16533.3	6373.2	2418.6	1233.4	647.5
75°	8865.0	9420.0	12280.0	17232.8	19566.6	18984.6	10774.8	3027.6	1206.4	674.5	267.9
77.5°	4220.5	4112.6	5991.6	10248.7	13266.7	13235.9	5428.9	1345.2	703.4	456.7	134.9
80°	1206.4	1356.7	2293.3	4871.9	7365.7	7446.6	2085.2	649.5	487.6	356.5	69.4
82.5°	364.2	371.9	842.2	2154.6	3663.6	3453.5	782.4	331.5	350.7	283.3	40.5
85°	63.6	79.0	248.6	759.3	1397.2	1059.9	196.6	158.0	231.3	186.9	23.1
87.5°	3.9	5.8	82.9	86.7	123.3	71.3	34.7	23.1	50.1	50.1	13.5
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°	4037.4	4037.4	4037.4	4037.4	4037.4	4037.4	4037.4	4037.4	4037.4	4037.4	4037.4
2.5°	4050.9	4062.5	4054.8	4037.4	4008.5	3973.8	3927.6	3889.0	3856.3	3838.9	3860.1
5°	4076.0	4091.4	4052.9	3966.1	3835.1	3692.5	3530.6	3405.3	3307.0	3276.2	3264.6
7.5°	4114.5	4124.2	4020.1	3827.4	3549.9	3212.6	2917.7	2669.1	2476.4	2418.6	2333.8
10°	4164.6	4158.8	3962.3	3603.8	3116.2	2609.4	2152.7	1813.5	1557.2	1464.7	1456.9
12.5°	4241.7	4210.9	3889.0	3299.3	2599.8	1936.8	1372.2	1073.4	911.6	857.6	846.0
15°	4338.1	4264.8	3773.4	2942.8	1990.8	1250.7	846.0	755.5	734.3	730.4	726.5
17.5°	4451.8	4336.1	3621.2	2505.3	1399.1	811.3	707.3	705.3	707.3	703.4	701.5
20°	4606.0	4411.3	3440.0	1986.9	925.0	684.1	674.5	674.5	676.4	674.5	674.5
22.5°	4769.8	4500.0	3216.5	1516.7	697.6	649.5	647.5	651.4	655.2	653.3	653.3
25°	4972.1	4615.6	2921.6	1038.7	624.4	620.6	622.5	630.2	637.9	639.8	637.9
27.5°	5265.0	4758.2	2605.5	715.0	572.4	576.2	595.5	614.8	626.3	628.3	628.3
30°	5594.6	4916.2	2193.1	580.1	530.0	530.0	553.1	589.7	614.8	618.6	620.6
32.5°	6018.6	5099.3	1736.4	522.3	489.5	485.6	506.8	551.2	597.4	610.9	610.9
35°	6542.8	5315.2	1291.2	485.6	460.6	451.0	462.5	499.1	558.9	597.4	601.3
37.5°	7157.5	5519.4	944.3	452.9	433.6	420.1	427.8	456.7	504.9	562.7	578.2
40°	7726.1	5700.6	705.3	425.9	406.6	397.0	402.8	416.3	456.7	510.7	520.3
42.5°	8346.6	5841.3	560.8	397.0	379.7	375.8	375.8	381.6	408.6	439.4	441.3
45°	8965.2	5891.4	470.2	362.3	350.7	354.6	352.7	348.8	360.4	356.5	356.5
47.5°	9406.6	5831.6	389.3	329.5	329.5	335.3	325.7	312.2	306.4	283.3	285.2
50°	9709.1	5613.9	319.9	291.0	306.4	314.1	294.9	273.7	252.5	227.4	221.6
52.5°	9834.4	5226.5	262.1	240.9	271.7	281.4	258.2	233.2	200.4	179.2	173.4
55°	9753.4	4748.6	217.8	196.6	229.3	240.9	217.8	188.9	152.2	129.1	125.3
57.5°	9396.9	4178.1	185.0	156.1	183.1	190.8	175.4	144.5	107.9	84.8	84.8
60°	8780.2	3588.4	150.3	123.3	136.8	148.4	133.0	104.1	73.2	52.0	48.2
62.5°	7529.5	2913.9	121.4	96.4	96.4	106.0	92.5	75.2	46.3	27.0	25.1
65°	5436.6	1998.5	96.4	71.3	69.4	69.4	57.8	50.1	27.0	11.6	7.7
67.5°	2954.4	1127.4	77.1	54.0	48.2	46.3	36.6	28.9	11.6	1.9	0.0
70°	1162.1	433.6	59.7	36.6	30.8	28.9	19.3	13.5	7.7	0.0	0.0
71°	788.2	298.7	52.0	30.8	25.1	21.2	15.4	11.6	5.8	0.0	0.0
72.5°	451.0	185.0	40.5	23.1	19.3	15.4	11.6	7.7	5.8	0.0	0.0
75°	196.6	94.4	25.1	17.3	13.5	9.6	7.7	5.8	1.9	0.0	0.0
77.5°	100.2	52.0	17.3	13.5	7.7	5.8	3.9	1.9	0.0	0.0	0.0
80°	55.9	27.0	11.6	7.7	5.8	3.9	1.9	1.9	0.0	0.0	0.0
82.5°	30.8	15.4	5.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.3	9.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.6	3.9	0.0	0.0	0.0	0.0	1.9	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)