

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: P457871

Luminaire Tested: **GALN-SA9B-727-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457871  
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-SA9B-727-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA 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: 31065 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

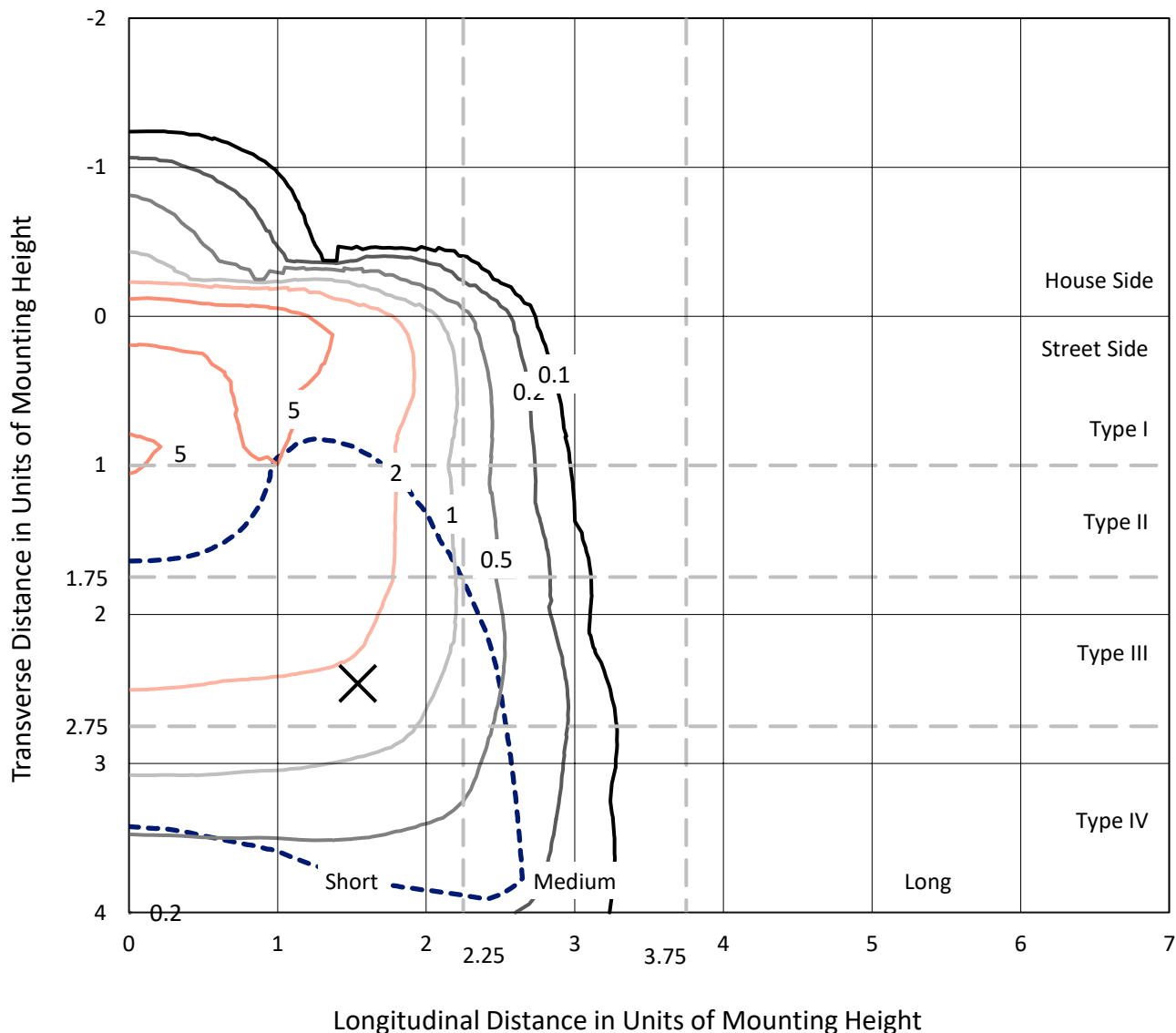
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

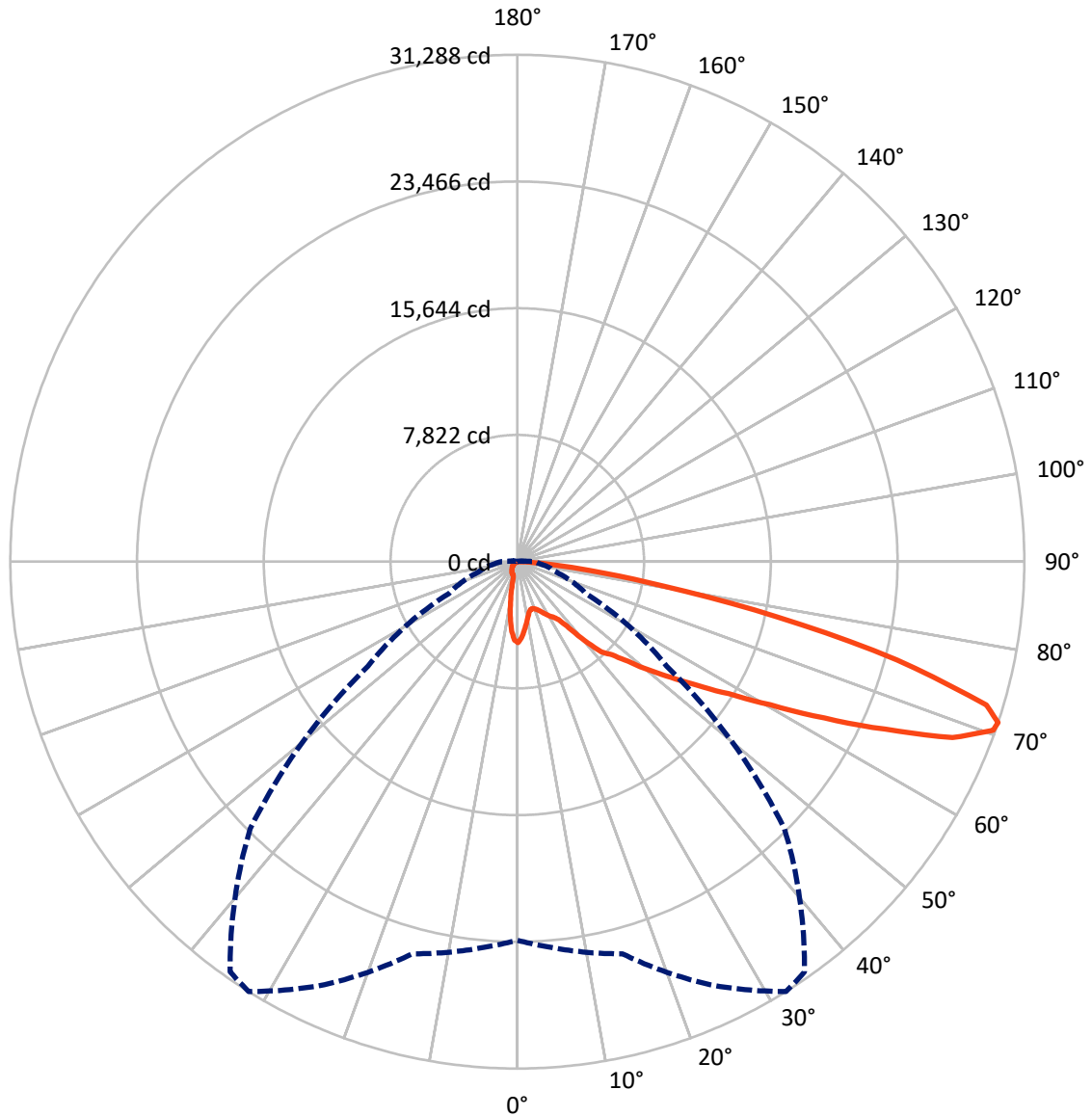
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P457871  
CATALOG NUMBER: GALN-SA9B-727-U-T4FT-HSS

### 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	2602.0	0.0	2602.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	28463.0	0.0	28463.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	31065.0	0.0	31065.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.2	1.3
10°-20°	881.6	2.8
20°-30°	1371.5	4.4
30°-40°	2285.0	7.4
40°-50°	4250.5	13.7
50°-60°	6824.3	22.0
60°-70°	9179.0	29.5
70°-80°	5446.0	17.5
80°-90°	421.0	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°	31065.0	100.0
0°-180°	31065.0	100.0



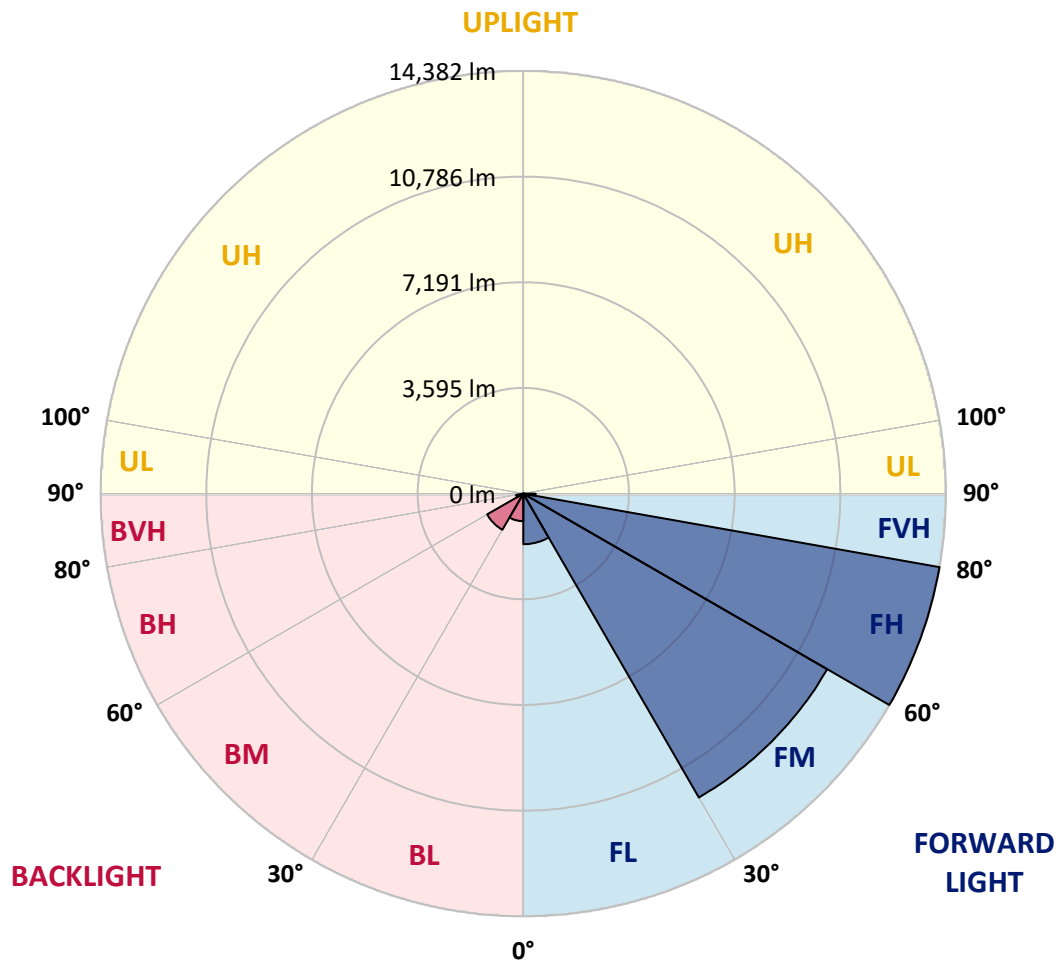
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 CATALOG NUMBER: GALN-SA9B-727-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1721.8	5.5			
FM (30°-60°)	11940.2	38.4			
FH (60°-80°)	14381.6	46.3			G5
FVH (80°-90°)	419.3	1.3			G3/500
BL (0°-30°)	937.6	3.0	B2/1000		
BM (30°-60°)	1419.5	4.6	B2/2500		
BH (60°-80°)	243.4	0.8	B1/500		G1/500
BVH (80°-90°)	1.6	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4995.7	4995.7	4995.7	4995.7	4995.7	4995.7	4995.7	4995.7	4995.7	4995.7	4995.7
2.5°	4633.3	4681.0	4673.8	4690.5	4731.0	4747.7	4793.0	4843.1	4912.3	4960.0	4991.0
5°	4149.2	4185.0	4189.7	4273.2	4313.7	4359.0	4492.6	4638.0	4800.2	4929.0	5014.8
7.5°	3631.7	3650.8	3689.0	3798.7	3901.2	3946.5	4149.2	4402.0	4657.1	4898.0	5053.0
10°	3204.9	3226.4	3295.5	3412.4	3507.7	3567.4	3848.7	4165.9	4523.6	4881.3	5107.8
12.5°	2961.7	2973.6	2999.8	3104.7	3226.4	3290.7	3593.6	3956.1	4416.3	4888.4	5200.8
15°	2945.0	2940.2	2909.2	2952.1	3061.8	3128.6	3424.3	3813.0	4320.9	4912.3	5310.5
17.5°	3033.2	3021.3	2947.4	2947.4	3038.0	3092.8	3352.7	3736.7	4273.2	4967.1	5465.5
20°	3169.1	3150.1	3028.4	3018.9	3107.1	3164.4	3395.7	3741.4	4282.7	5069.7	5673.0
22.5°	3340.8	3319.4	3135.7	3140.5	3235.9	3293.1	3519.7	3827.3	4342.4	5196.0	5894.7
25°	3565.0	3541.1	3324.1	3314.6	3414.7	3464.8	3703.3	3979.9	4425.8	5353.4	6185.7
27.5°	3863.1	3813.0	3553.1	3538.7	3646.1	3710.4	3925.1	4185.0	4573.7	5570.4	6576.7
30°	4108.7	4053.8	3805.8	3767.7	3882.1	3932.2	4154.0	4461.6	4864.6	5949.6	7118.0
32.5°	4430.6	4349.5	4058.6	3958.4	4080.1	4144.4	4485.4	4976.7	5296.2	6350.2	7761.9
35°	5155.5	5105.4	4750.1	4399.6	4392.4	4473.5	4974.3	5496.5	5739.7	6975.0	8639.4
37.5°	6192.8	6157.0	5780.3	5310.5	5174.6	5136.4	5568.0	6068.8	6448.0	7833.4	9660.0
40°	7397.0	7313.6	6967.8	6569.6	6393.1	6281.0	6269.1	6920.1	7373.2	8999.5	10723.5
42.5°	8260.3	8107.6	7688.0	7659.3	7621.2	7504.3	7165.7	8164.9	8567.9	10253.8	11861.0
45°	9166.4	8935.1	8310.3	8203.0	8188.7	8181.6	8520.2	9638.6	9869.9	11613.0	13029.5
47.5°	9869.9	9686.2	9173.6	9125.9	9185.5	9347.6	10311.0	11202.9	11155.2	12824.4	14009.5
50°	10807.0	10668.7	10098.8	10189.4	10497.0	10761.7	12330.8	12907.8	12211.5	13778.2	14722.5
52.5°	11913.5	11658.3	11128.9	11374.5	11846.7	12287.8	14474.5	14400.6	12953.1	14496.0	15254.3
55°	12872.1	12690.8	12509.6	12764.8	13470.6	14021.4	16410.8	15519.0	13492.1	15073.1	15488.0
57.5°	14493.6	14450.7	14264.7	14524.6	15380.7	15953.0	18144.4	16387.0	13837.8	15373.5	15213.7
60°	16892.5	16823.4	16477.6	16809.0	17925.0	18824.0	19742.1	17166.7	13916.5	15256.7	14424.4
62.5°	19777.9	19541.8	19246.1	19735.0	21265.9	21661.7	21246.8	17629.3	13623.2	14326.7	12521.5
65°	22472.5	22229.2	22236.4	23266.5	24933.4	25202.8	23001.9	17560.2	12764.8	11996.9	9235.6
67.5°	24535.2	24494.6	24785.5	26795.8	28975.3	28789.3	24570.9	16525.3	10220.4	7776.2	4907.5
70°	24640.1	24718.8	25553.4	28946.7	31159.6	30863.9	24437.4	13432.5	6371.7	3576.9	1933.9
71°	23371.5	23900.8	25055.0	28879.9	31288.3	30904.4	23311.9	11250.5	4673.8	2494.3	1395.0
72.5°	19916.2	20195.2	22689.5	27179.7	30270.1	29449.8	20457.5	7885.9	2992.7	1526.1	801.2
75°	10969.2	11655.9	15194.7	21323.1	24210.8	23490.7	13332.3	3746.2	1492.8	834.6	331.5
77.5°	5222.3	5088.7	7413.7	12681.3	16415.6	16377.4	6717.4	1664.5	870.4	565.2	166.9
80°	1492.8	1678.8	2837.7	6028.3	9113.9	9214.1	2580.1	803.6	603.3	441.2	85.8
82.5°	450.7	460.2	1042.1	2666.0	4533.1	4273.2	968.1	410.2	434.0	350.5	50.1
85°	78.7	97.8	307.6	939.5	1728.8	1311.5	243.2	195.5	286.2	231.3	28.6
87.5°	4.8	7.2	102.5	107.3	152.6	88.2	42.9	28.6	62.0	62.0	16.7
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°	4995.7	4995.7	4995.7	4995.7	4995.7	4995.7	4995.7	4995.7	4995.7	4995.7	4995.7
2.5°	5012.4	5026.7	5017.2	4995.7	4960.0	4917.0	4859.8	4812.1	4771.6	4750.1	4776.4
5°	5043.4	5062.5	5014.8	4907.5	4745.4	4568.9	4368.6	4213.6	4092.0	4053.8	4039.5
7.5°	5091.1	5103.0	4974.3	4735.8	4392.4	3975.1	3610.3	3302.7	3064.2	2992.7	2887.8
10°	5153.1	5146.0	4902.7	4459.2	3855.9	3228.7	2663.6	2243.9	1926.8	1812.3	1802.8
12.5°	5248.5	5210.4	4812.1	4082.4	3216.8	2396.5	1697.8	1328.2	1127.9	1061.1	1046.8
15°	5367.7	5277.1	4669.0	3641.3	2463.3	1547.6	1046.8	934.8	908.5	903.8	899.0
17.5°	5508.4	5365.4	4480.7	3100.0	1731.2	1003.9	875.1	872.8	875.1	870.4	868.0
20°	5699.2	5458.3	4256.5	2458.5	1144.6	846.5	834.6	834.6	837.0	834.6	834.6
22.5°	5901.9	5568.0	3979.9	1876.7	863.2	803.6	801.2	806.0	810.8	808.4	808.4
25°	6152.3	5711.1	3615.1	1285.3	772.6	767.8	770.2	779.8	789.3	791.7	789.3
27.5°	6514.7	5887.6	3224.0	884.7	708.2	713.0	736.8	760.7	775.0	777.4	777.4
30°	6922.5	6083.1	2713.7	717.8	655.8	655.8	684.4	729.7	760.7	765.5	767.8
32.5°	7447.1	6309.7	2148.5	646.2	605.7	600.9	627.1	682.0	739.2	755.9	755.9
35°	8095.7	6576.7	1597.7	600.9	569.9	558.0	572.3	617.6	691.5	739.2	744.0
37.5°	8856.4	6829.5	1168.5	560.4	536.5	519.8	529.4	565.2	624.8	696.3	715.4
40°	9559.9	7053.6	872.8	527.0	503.2	491.2	498.4	515.1	565.2	631.9	643.8
42.5°	10327.7	7227.7	693.9	491.2	469.8	465.0	465.0	472.2	505.5	543.7	546.1
45°	11093.2	7289.7	581.8	448.3	434.0	438.8	436.4	431.6	445.9	441.2	441.2
47.5°	11639.2	7215.8	481.7	407.8	407.8	414.9	403.0	386.3	379.2	350.5	352.9
50°	12013.6	6946.3	395.8	360.1	379.2	388.7	364.8	338.6	312.4	281.4	274.2
52.5°	12168.6	6467.0	324.3	298.1	336.2	348.2	319.5	288.5	248.0	221.8	214.6
55°	12068.5	5875.7	269.5	243.2	283.8	298.1	269.5	233.7	188.4	159.8	155.0
57.5°	11627.3	5169.8	228.9	193.2	226.5	236.1	217.0	178.8	133.5	104.9	104.9
60°	10864.2	4440.1	186.0	152.6	169.3	183.6	164.5	128.8	90.6	64.4	59.6
62.5°	9316.6	3605.5	150.2	119.2	119.2	131.2	114.5	93.0	57.2	33.4	31.0
65°	6727.0	2472.8	119.2	88.2	85.8	85.8	71.5	62.0	33.4	14.3	9.5
67.5°	3655.6	1395.0	95.4	66.8	59.6	57.2	45.3	35.8	14.3	2.4	0.0
70°	1437.9	536.5	73.9	45.3	38.2	35.8	23.8	16.7	9.5	0.0	0.0
71°	975.3	369.6	64.4	38.2	31.0	26.2	19.1	14.3	7.2	0.0	0.0
72.5°	558.0	228.9	50.1	28.6	23.8	19.1	14.3	9.5	7.2	0.0	0.0
75°	243.2	116.8	31.0	21.5	16.7	11.9	9.5	7.2	2.4	0.0	0.0
77.5°	124.0	64.4	21.5	16.7	9.5	7.2	4.8	2.4	0.0	0.0	0.0
80°	69.2	33.4	14.3	9.5	7.2	4.8	2.4	2.4	0.0	0.0	0.0
82.5°	38.2	19.1	7.2	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.8	11.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	4.8	0.0	0.0	0.0	0.0	2.4	2.4	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)