

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: P453908

Luminaire Tested: **GALN-SA5A-727-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453908  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-727-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15675 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

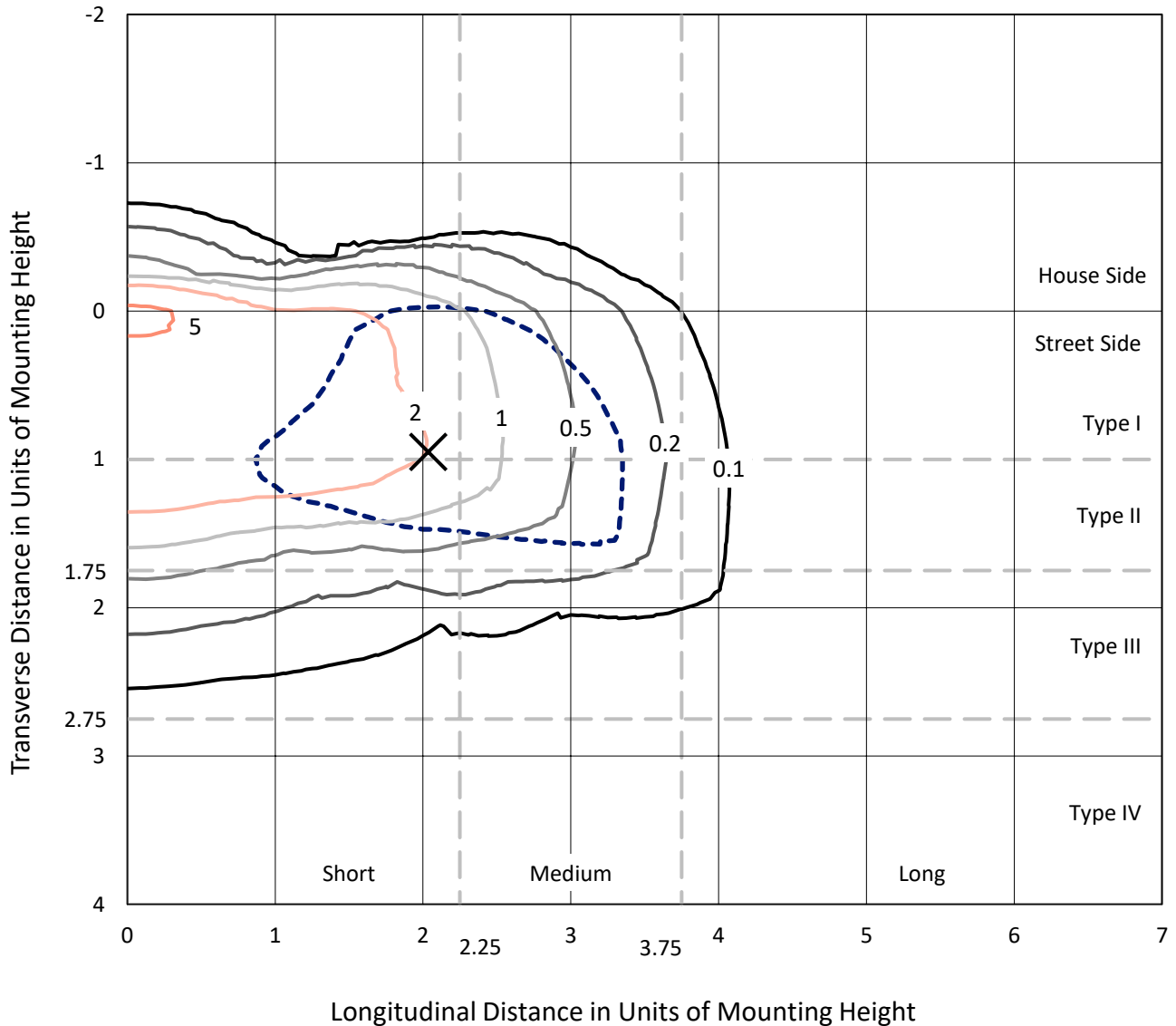
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

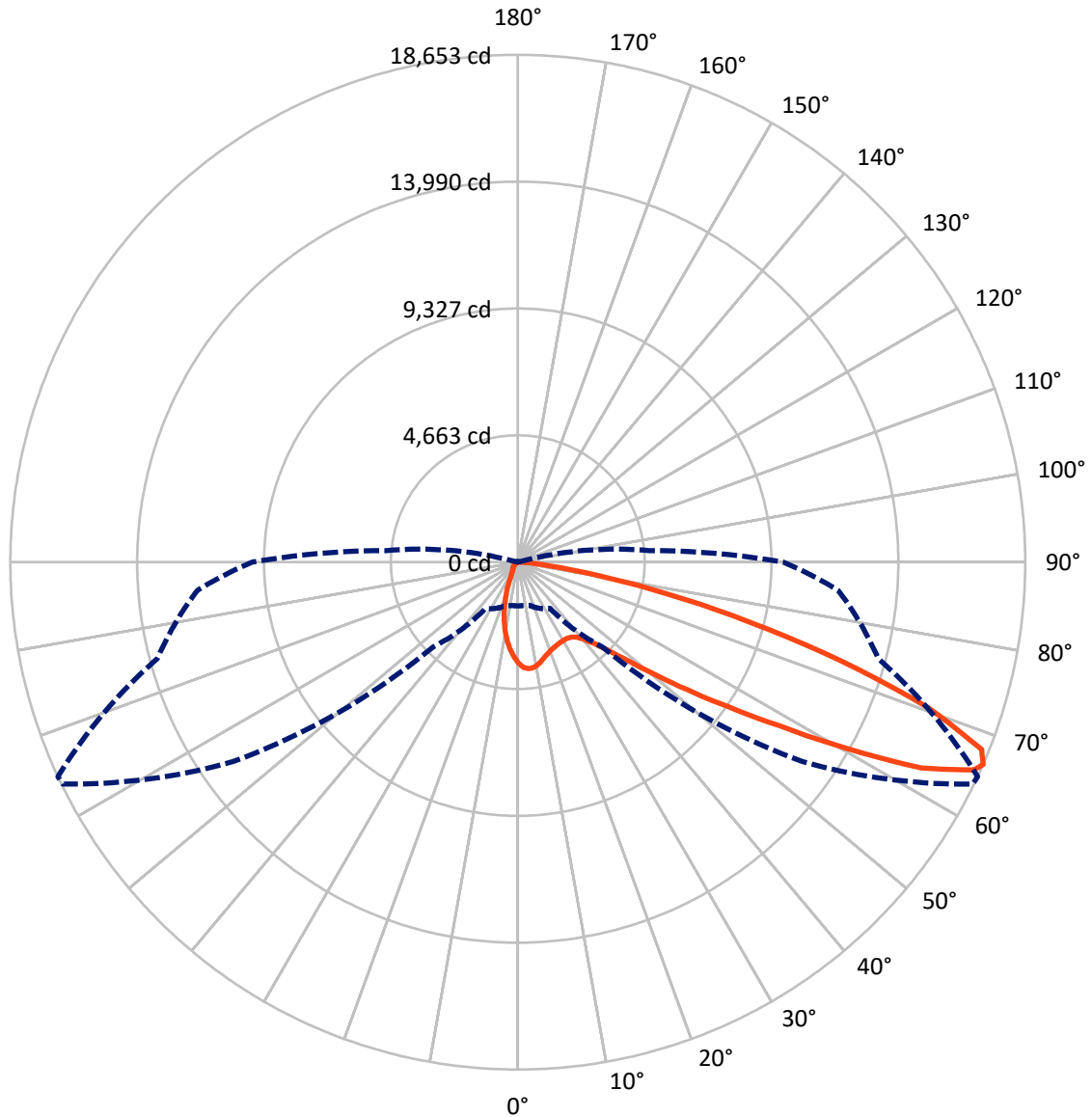
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1621.0	0.0	1621.0
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	14054.0	0.0	14054.0
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	15675.0	0.0	15675.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.0	1.9
10°-20°	662.4	4.2
20°-30°	948.9	6.1
30°-40°	1385.9	8.8
40°-50°	2323.9	14.8
50°-60°	3878.2	24.7
60°-70°	4116.6	26.3
70°-80°	1864.4	11.9
80°-90°	190.8	1.2
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°	15675.0	100.0
0°-180°	15675.0	100.0

**Coefficient of Utilization**



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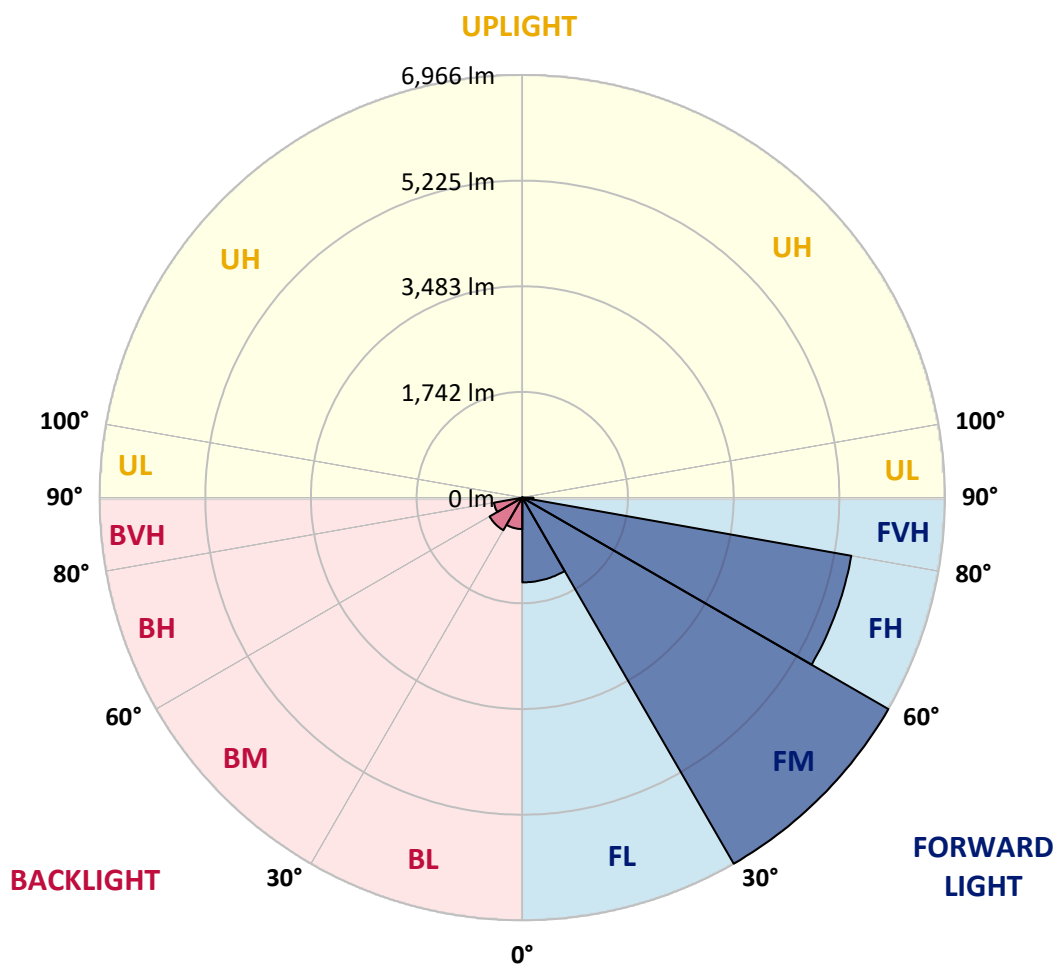
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1396.7	8.9			
FM (30°-60°)	6966.3	44.4			
FH (60°-80°)	5506.3	35.1			G3/7500
FVH (80°-90°)	184.7	1.2			G2/225
BL (0°-30°)	518.5	3.3	B2/1000		
BM (30°-60°)	621.7	4.0	B1/1000		
BH (60°-80°)	474.7	3.0	B1/500		G1/500
BVH (80°-90°)	6.1	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3717.1	3717.1	3717.1	3717.1	3717.1	3717.1	3717.1	3717.1	3717.1	3717.1	3717.1
2.5°	3917.2	3921.5	3926.7	3934.2	3939.4	3923.6	3901.3	3875.9	3870.6	3816.6	3751.0
5°	3707.6	3713.9	3760.5	3785.9	3843.1	3895.0	3927.8	3932.0	3929.9	3879.1	3774.3
7.5°	3409.0	3427.0	3472.6	3517.0	3624.0	3722.4	3838.9	3920.4	3925.7	3911.9	3781.7
10°	3166.6	3178.2	3201.5	3289.4	3378.3	3528.7	3691.7	3845.2	3857.9	3913.0	3775.3
12.5°	2977.1	2994.0	3022.6	3090.4	3197.3	3339.2	3524.4	3730.9	3757.4	3892.9	3757.4
15°	2844.7	2853.2	2881.8	2948.5	3052.3	3183.5	3370.9	3611.2	3634.5	3866.4	3754.2
17.5°	2782.3	2791.8	2811.9	2864.9	2950.6	3072.4	3255.5	3514.9	3544.6	3849.5	3765.8
20°	2799.2	2807.7	2808.7	2836.3	2894.5	2997.2	3170.8	3424.9	3463.0	3838.9	3784.9
22.5°	2895.6	2896.6	2883.9	2871.2	2891.3	2965.4	3119.0	3367.7	3406.9	3836.8	3807.1
25°	3039.5	3042.7	3021.6	2977.1	2936.9	2975.0	3107.3	3330.7	3365.6	3831.5	3820.9
27.5°	3238.6	3237.5	3231.2	3157.1	3042.7	3017.3	3116.8	3310.6	3340.2	3816.6	3826.2
30°	3517.0	3508.6	3494.8	3411.2	3236.5	3120.0	3157.1	3297.9	3325.4	3795.5	3812.4
32.5°	3791.2	3823.0	3820.9	3741.5	3523.4	3303.2	3240.7	3314.8	3334.9	3781.7	3792.3
35°	4111.0	4109.9	4191.4	4161.8	3906.6	3537.1	3383.6	3370.9	3386.8	3791.2	3782.8
37.5°	4407.4	4434.9	4562.0	4592.7	4359.8	3867.5	3585.8	3491.6	3496.9	3855.8	3806.1
40°	4776.9	4829.8	5019.3	5122.0	4916.6	4357.6	3884.4	3712.9	3713.9	4014.6	3893.9
42.5°	5253.3	5336.9	5513.7	5685.3	5575.2	4937.8	4332.2	4063.3	4061.2	4294.1	4095.1
45°	5832.4	5890.6	6091.8	6363.9	6294.0	5747.7	4984.4	4606.4	4578.9	4752.5	4451.9
47.5°	6332.1	6411.5	6615.9	6926.1	7243.7	6736.6	5763.6	5352.8	5334.8	5482.0	5063.8
50°	6550.2	6620.1	6835.0	7270.1	8039.8	8034.5	6923.9	6442.2	6411.5	6490.9	6010.3
52.5°	6311.0	6376.6	6593.6	7135.7	8414.6	9616.2	8605.2	7809.0	7772.0	7670.3	7141.0
55°	5491.5	5545.5	5866.3	6488.8	8270.6	10670.7	10921.6	9497.7	9353.7	8958.8	8421.0
57.5°	4372.5	4344.9	4544.0	5267.1	7425.8	11024.3	13299.5	11601.3	11344.0	10072.5	9504.0
60°	3030.0	3114.7	3195.2	3671.6	5583.6	10411.3	14778.5	14246.0	13907.2	11168.3	10541.5
62.5°	2227.5	2283.6	2336.6	2556.8	3510.7	8313.0	15040.0	16962.6	16661.9	12331.8	11531.4
65°	1761.7	1765.9	1787.1	2004.1	2313.3	5405.8	13783.3	18494.6	18417.3	13451.9	11932.7
66°	1605.0	1606.1	1638.9	1871.8	2076.1	4402.1	12776.5	18611.0	18653.4	13720.8	11815.2
67.5°	1402.8	1398.6	1446.2	1682.3	1890.9	3174.0	10974.6	18138.8	18389.7	13927.3	11392.7
70°	1087.3	1082.0	1140.2	1411.3	1741.6	2117.4	7294.5	15574.6	15979.1	13504.9	10080.0
72.5°	724.2	728.4	827.9	1113.8	1662.2	1864.4	4388.3	11848.0	12419.7	11152.4	7929.7
75°	422.4	429.8	543.1	827.9	1443.0	1777.6	2483.7	8448.5	8813.7	7701.0	4939.9
77.5°	221.3	224.4	303.8	546.3	1106.3	1650.5	1654.8	5397.3	5568.8	3742.5	1955.4
80°	117.5	114.3	163.0	329.3	761.2	1449.4	1342.4	2857.5	2970.7	1111.6	494.4
82.5°	44.5	48.7	86.8	216.0	450.0	1040.7	1156.1	1263.0	1223.9	244.6	207.5
85°	8.5	10.6	37.1	128.1	226.6	435.1	852.3	619.3	573.8	92.1	119.6
87.5°	1.1	2.1	10.6	30.7	32.8	147.2	252.0	171.5	148.2	33.9	49.8
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°	3717.1	3717.1	3717.1	3717.1	3717.1	3717.1	3717.1	3717.1	3717.1	3717.1	3717.1
2.5°	3719.2	3690.7	3595.4	3501.1	3404.8	3318.0	3258.7	3162.4	3138.0	3103.1	3083.0
5°	3711.8	3645.1	3462.0	3261.9	3075.5	2874.4	2720.9	2572.7	2493.3	2453.0	2438.2
7.5°	3690.7	3584.8	3298.9	2985.6	2687.0	2386.3	2124.8	1925.8	1797.7	1709.8	1650.5
10°	3648.3	3502.2	3109.4	2678.5	2227.5	1830.5	1499.1	1247.2	1052.4	990.9	993.1
12.5°	3604.9	3410.1	2897.7	2337.6	1778.6	1277.9	926.4	727.3	634.2	603.5	597.1
15°	3564.7	3322.2	2690.2	2007.3	1324.4	827.9	597.1	527.2	501.8	496.5	495.5
17.5°	3543.5	3240.7	2468.9	1629.4	924.3	562.2	478.5	459.5	452.1	446.8	444.7
20°	3525.5	3169.8	2257.2	1275.7	632.0	460.5	428.8	410.8	398.1	392.8	389.6
22.5°	3512.8	3096.7	2038.0	987.8	483.8	408.7	380.1	356.8	338.8	332.4	328.2
25°	3493.7	3016.3	1816.7	722.0	407.6	363.1	330.3	302.8	279.5	267.9	265.7
27.5°	3466.2	2925.2	1574.3	534.6	364.2	322.9	282.7	248.8	225.5	212.8	213.9
30°	3421.7	2829.9	1331.9	424.5	329.3	281.6	238.2	205.4	183.2	173.6	172.6
32.5°	3368.8	2714.5	1109.5	364.2	297.5	244.6	199.0	170.5	153.5	146.1	145.0
35°	3319.0	2598.1	883.0	327.1	264.7	210.7	167.3	142.9	130.2	123.9	124.9
37.5°	3291.5	2494.3	688.2	297.5	238.2	181.0	144.0	122.8	111.2	105.9	104.8
40°	3309.5	2409.6	547.4	271.0	208.6	155.6	123.9	105.9	94.2	86.8	86.8
42.5°	3394.2	2372.6	441.5	245.6	181.0	134.5	108.0	91.0	78.3	70.9	72.0
45°	3652.5	2411.7	369.5	222.3	155.6	116.5	93.2	75.2	63.5	58.2	57.2
47.5°	4081.3	2558.9	319.7	198.0	133.4	99.5	78.3	62.5	50.8	46.6	45.5
50°	4830.9	2862.7	282.7	173.6	113.3	84.7	64.6	49.8	40.2	36.0	36.0
52.5°	5862.1	3525.5	256.2	146.1	95.3	72.0	52.9	40.2	31.8	28.6	27.5
55°	6939.8	4224.2	242.4	122.8	79.4	59.3	42.3	31.8	24.4	21.2	20.1
57.5°	7976.3	4772.7	226.6	99.5	63.5	45.5	32.8	24.4	16.9	14.8	13.8
60°	8970.4	5216.2	192.7	79.4	49.8	32.8	24.4	16.9	11.6	9.5	9.5
62.5°	9859.7	5474.6	151.4	63.5	38.1	23.3	15.9	12.7	8.5	6.4	6.4
65°	9963.5	5139.0	114.3	48.7	27.5	14.8	9.5	9.5	6.4	4.2	4.2
66°	9754.9	4854.2	100.6	44.5	24.4	12.7	8.5	7.4	5.3	3.2	3.2
67.5°	9289.1	4368.2	86.8	38.1	20.1	9.5	6.4	6.4	4.2	2.1	2.1
70°	8026.1	3567.8	68.8	28.6	14.8	7.4	4.2	4.2	3.2	2.1	2.1
72.5°	6117.2	2663.7	56.1	21.2	10.6	5.3	3.2	3.2	3.2	2.1	2.1
75°	3689.6	1434.5	43.4	15.9	9.5	4.2	2.1	3.2	4.2	3.2	2.1
77.5°	1359.4	488.1	33.9	12.7	7.4	4.2	2.1	2.1	4.2	3.2	3.2
80°	333.5	127.0	24.4	10.6	7.4	4.2	2.1	2.1	4.2	4.2	4.2
82.5°	154.6	54.0	16.9	9.5	7.4	4.2	2.1	2.1	3.2	4.2	4.2
85°	88.9	25.4	13.8	10.6	7.4	4.2	2.1	2.1	3.2	4.2	4.2
87.5°	36.0	12.7	12.7	10.6	8.5	5.3	2.1	2.1	2.1	3.2	3.2
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)