

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: P452516

Luminaire Tested: **GALN-SA3C-727-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452516  
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-SA3C-727-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA 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: 14365 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

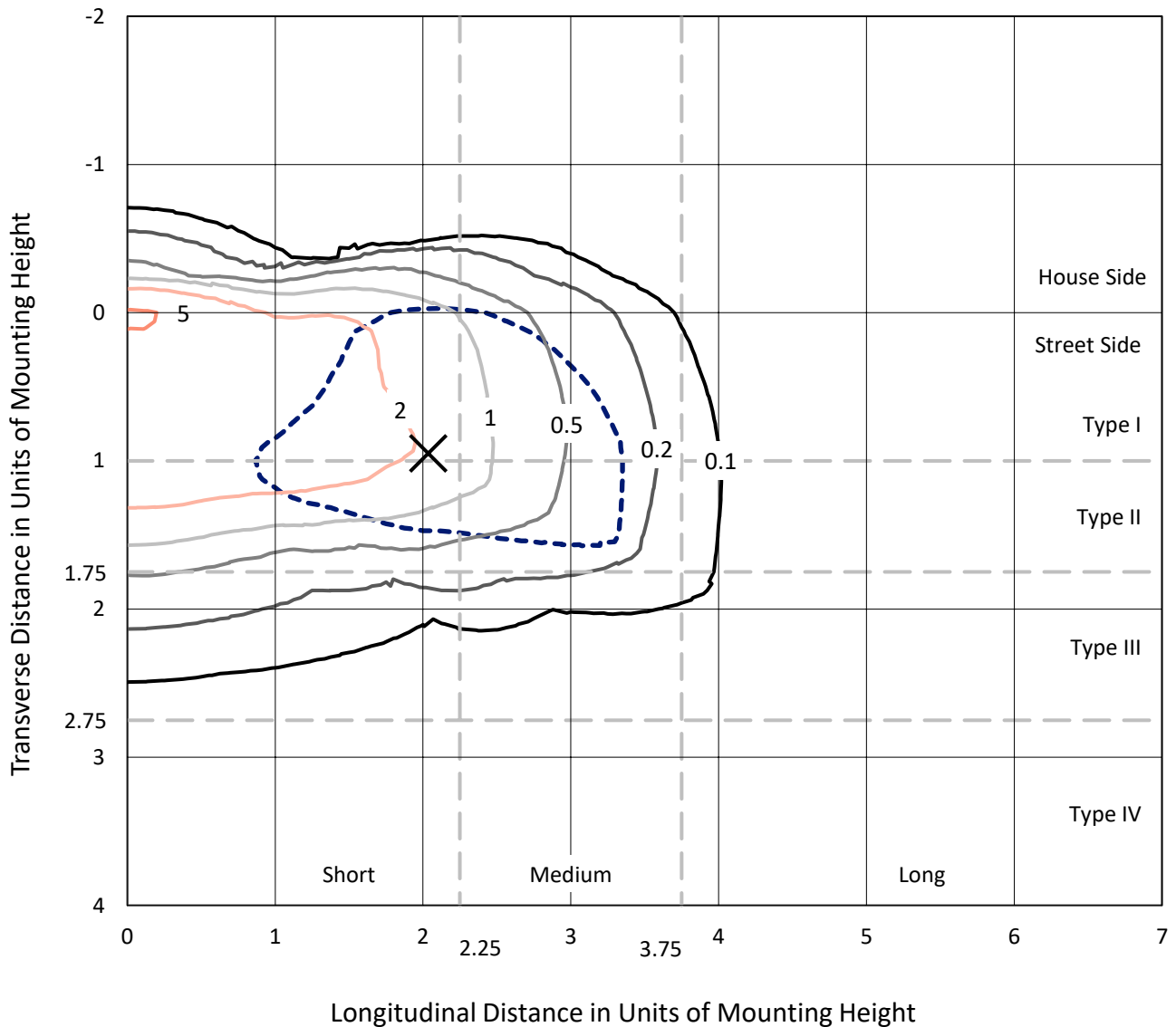
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

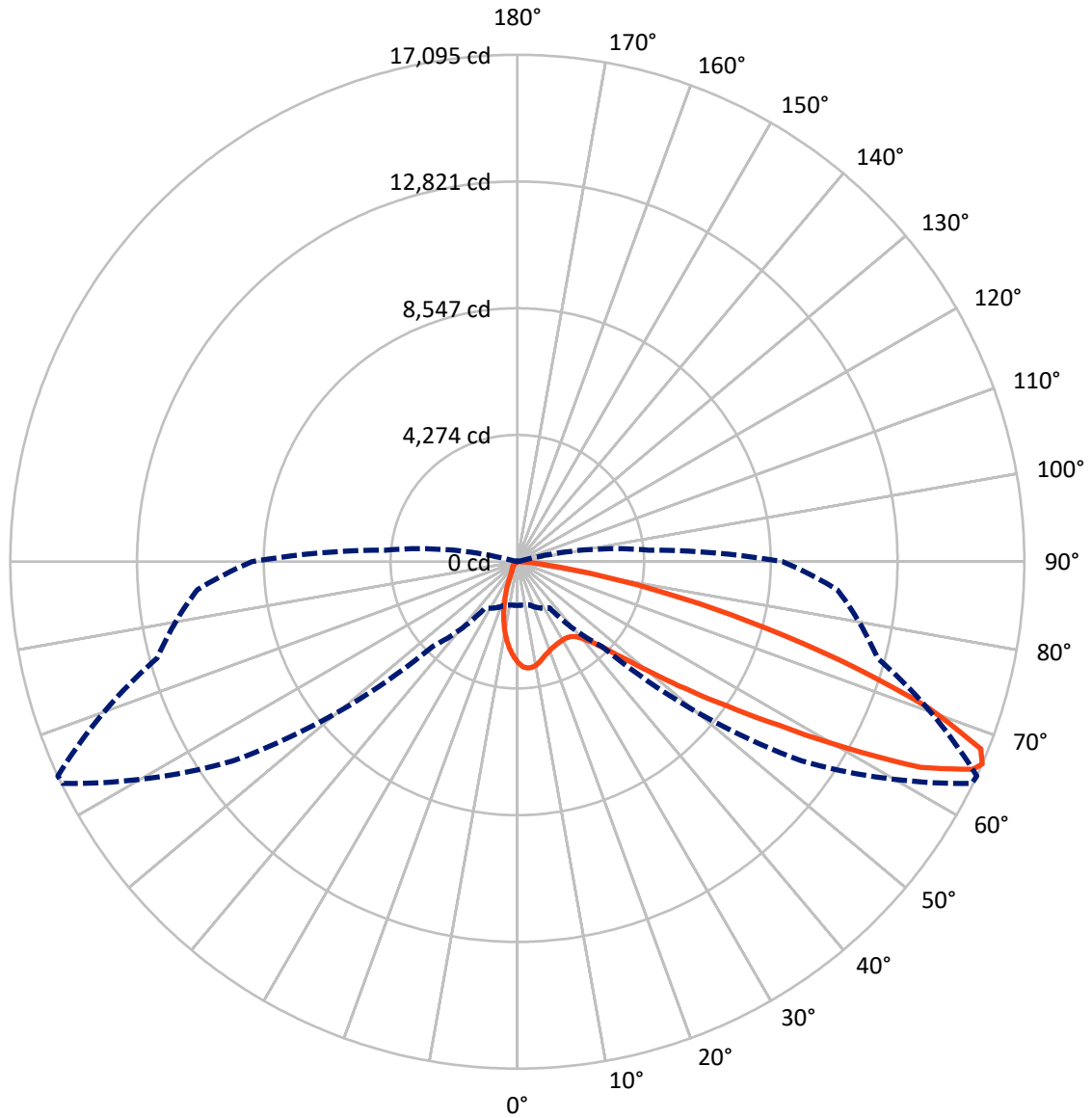
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	1485.5	0.0	1485.5
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	12879.5	0.0	12879.5
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	14365.0	0.0	14365.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.6	1.9
10°-20°	607.0	4.2
20°-30°	869.6	6.1
30°-40°	1270.1	8.8
40°-50°	2129.7	14.8
50°-60°	3554.1	24.7
60°-70°	3772.6	26.3
70°-80°	1708.6	11.9
80°-90°	174.8	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°	14365.0	100.0
0°-180°	14365.0	100.0

**Coefficient of Utilization**



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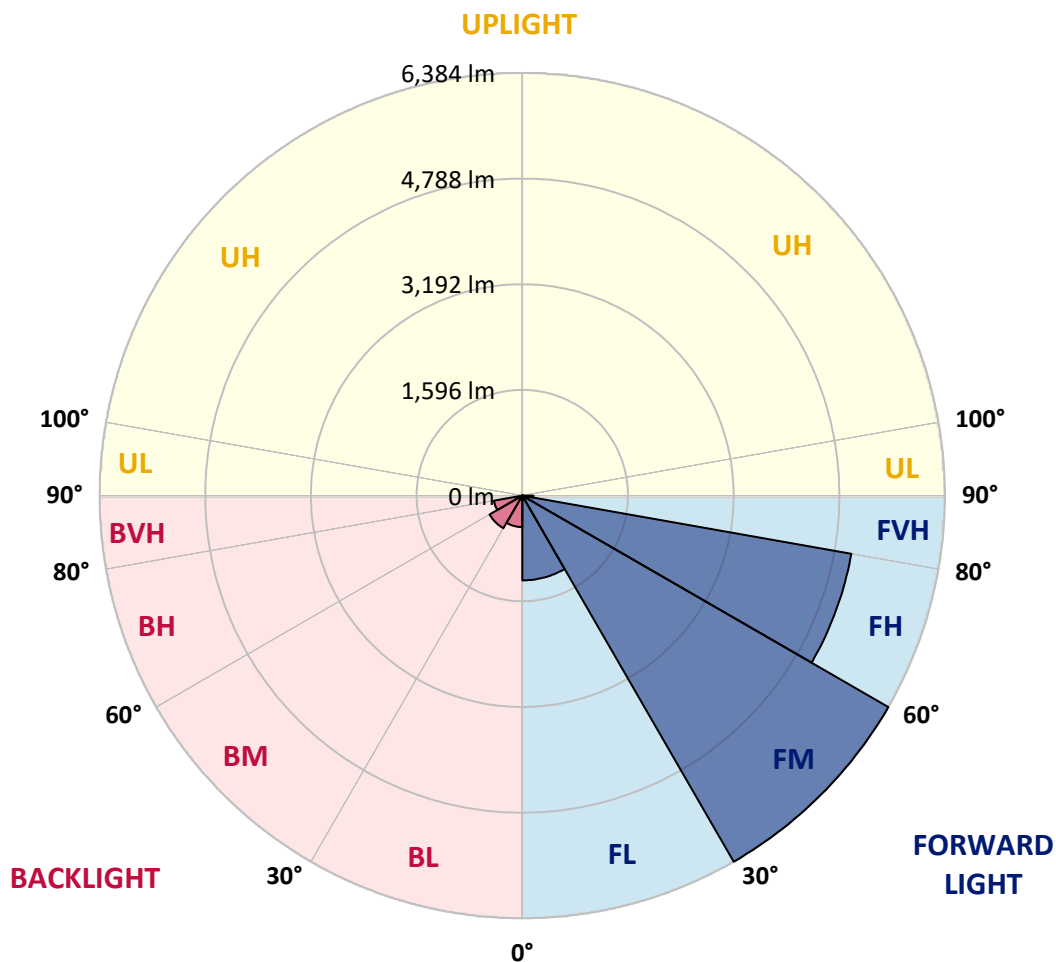
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.0	8.9			
FM (30°-60°)	6384.1	44.4			
FH (60°-80°)	5046.1	35.1			G3/7500
FVH (80°-90°)	169.3	1.2			G2/225
BL (0°-30°)	475.2	3.3	B1/500		
BM (30°-60°)	569.7	4.0	B1/1000		
BH (60°-80°)	435.0	3.0	B1/500		G1/500
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3406.5	3406.5	3406.5	3406.5	3406.5	3406.5	3406.5	3406.5	3406.5	3406.5	3406.5
2.5°	3589.8	3593.7	3598.6	3605.4	3610.2	3595.7	3575.3	3552.0	3547.2	3497.7	3437.5
5°	3397.7	3403.6	3446.3	3469.5	3521.9	3569.5	3599.5	3603.4	3601.5	3554.9	3458.9
7.5°	3124.1	3140.6	3182.3	3223.1	3321.1	3411.3	3518.0	3592.8	3597.6	3585.0	3465.7
10°	2902.0	2912.6	2934.0	3014.5	3096.0	3233.8	3383.2	3523.9	3535.5	3586.0	3459.8
12.5°	2728.3	2743.8	2770.0	2832.1	2930.1	3060.1	3229.9	3419.1	3443.3	3567.5	3443.3
15°	2607.0	2614.8	2641.0	2702.1	2797.2	2917.5	3089.2	3309.4	3330.8	3543.3	3440.4
17.5°	2549.8	2558.5	2576.9	2625.4	2704.0	2815.6	2983.5	3221.2	3248.3	3527.7	3451.1
20°	2565.3	2573.0	2574.0	2599.2	2652.6	2746.7	2905.8	3138.7	3173.6	3518.0	3468.6
22.5°	2653.6	2654.5	2642.9	2631.3	2649.7	2717.6	2858.3	3086.3	3122.2	3516.1	3488.9
25°	2785.5	2788.4	2769.0	2728.3	2691.4	2726.3	2847.6	3052.3	3084.4	3511.3	3501.6
27.5°	2967.9	2967.0	2961.1	2893.2	2788.4	2765.2	2856.4	3033.9	3061.1	3497.7	3506.4
30°	3223.1	3215.3	3202.7	3126.1	2966.0	2859.3	2893.2	3022.3	3047.5	3478.3	3493.8
32.5°	3474.4	3503.5	3501.6	3428.8	3228.9	3027.1	2969.9	3037.8	3056.2	3465.7	3475.4
35°	3767.4	3766.4	3841.1	3814.0	3580.1	3241.5	3100.8	3089.2	3103.8	3474.4	3466.6
37.5°	4039.1	4064.3	4180.7	4208.9	3995.4	3544.2	3286.2	3199.8	3204.7	3533.6	3488.0
40°	4377.7	4426.2	4599.9	4694.0	4505.7	3993.5	3559.8	3402.6	3403.6	3679.1	3568.5
42.5°	4814.3	4890.9	5052.9	5210.1	5109.2	4525.1	3970.2	3723.7	3721.8	3935.2	3752.8
45°	5345.0	5398.3	5582.7	5832.0	5768.0	5267.4	4567.8	4221.5	4196.2	4355.4	4079.8
47.5°	5802.9	5875.7	6063.0	6347.2	6638.3	6173.6	5281.9	4905.5	4889.0	5023.8	4640.6
50°	6002.8	6066.8	6263.8	6662.6	7367.9	7363.1	6345.3	5903.8	5875.7	5948.5	5508.0
52.5°	5783.5	5843.7	6042.6	6539.3	7711.4	8812.6	7886.0	7156.4	7122.4	7029.3	6544.2
55°	5032.6	5082.1	5376.0	5946.5	7579.4	9778.9	10008.9	8703.9	8572.0	8210.1	7717.2
57.5°	4007.0	3981.8	4164.2	4826.9	6805.2	10103.0	12188.0	10631.8	10396.0	9230.8	8709.7
60°	2776.8	2854.4	2928.1	3364.8	5117.0	9541.2	13543.4	13055.4	12744.9	10234.9	9660.6
62.5°	2041.4	2092.8	2141.3	2343.1	3217.3	7618.2	13783.1	15545.0	15269.5	11301.2	10567.7
65°	1614.5	1618.3	1637.7	1836.6	2119.9	4954.0	12631.4	16948.9	16878.1	12327.7	10935.4
66°	1470.9	1471.8	1501.9	1715.4	1902.6	4034.2	11708.7	17055.6	17094.5	12574.2	10827.7
67.5°	1285.6	1281.7	1325.3	1541.7	1732.8	2908.7	10057.4	16622.9	16852.9	12763.4	10440.6
70°	996.4	991.6	1044.9	1293.3	1596.0	1940.5	6684.9	14273.0	14643.7	12376.2	9237.5
72.5°	663.6	667.5	758.7	1020.7	1523.3	1708.6	4021.6	10857.8	11381.7	10220.4	7267.0
75°	387.1	393.9	497.7	758.7	1322.4	1629.0	2276.2	7742.4	8077.1	7057.4	4527.1
77.5°	202.8	205.7	278.5	500.6	1013.9	1512.6	1516.5	4946.2	5103.4	3429.8	1792.0
80°	107.7	104.8	149.4	301.7	697.6	1328.2	1230.2	2618.6	2722.5	1018.7	453.1
82.5°	40.7	44.6	79.6	197.9	412.3	953.7	1059.5	1157.5	1121.6	224.1	190.2
85°	7.8	9.7	34.0	117.4	207.6	398.8	781.0	567.6	525.9	84.4	109.6
87.5°	1.0	1.9	9.7	28.1	30.1	134.9	230.9	157.2	135.8	31.0	45.6
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°	3406.5	3406.5	3406.5	3406.5	3406.5	3406.5	3406.5	3406.5	3406.5	3406.5	3406.5
2.5°	3408.4	3382.2	3294.9	3208.5	3120.3	3040.7	2986.4	2898.1	2875.8	2843.7	2825.3
5°	3401.6	3340.5	3172.6	2989.3	2818.5	2634.2	2493.5	2357.7	2284.9	2248.0	2234.4
7.5°	3382.2	3285.2	3023.2	2736.0	2462.4	2186.9	1947.2	1764.8	1647.4	1566.9	1512.6
10°	3343.4	3209.5	2849.6	2454.7	2041.4	1677.5	1373.8	1142.9	964.4	908.1	910.1
12.5°	3303.6	3125.1	2655.5	2142.3	1630.0	1171.1	848.9	666.5	581.2	553.0	547.2
15°	3266.8	3044.6	2465.3	1839.6	1213.8	758.7	547.2	483.2	459.9	455.0	454.1
17.5°	3247.4	2969.9	2262.6	1493.2	847.0	515.2	438.5	421.1	414.3	409.4	407.5
20°	3230.9	2904.9	2068.5	1169.1	579.2	422.0	392.9	376.4	364.8	360.0	357.0
22.5°	3219.2	2837.9	1867.7	905.2	443.4	374.5	348.3	327.0	310.5	304.7	300.8
25°	3201.8	2764.2	1664.9	661.7	373.5	332.8	302.7	277.5	256.1	245.5	243.5
27.5°	3176.5	2680.7	1442.7	490.0	333.8	295.9	259.1	228.0	206.7	195.0	196.0
30°	3135.8	2593.4	1220.5	389.1	301.7	258.1	218.3	188.2	167.8	159.1	158.1
32.5°	3087.3	2487.7	1016.8	333.8	272.6	224.1	182.4	156.2	140.7	133.9	132.9
35°	3041.7	2380.9	809.2	299.8	242.6	193.1	153.3	131.0	119.3	113.5	114.5
37.5°	3016.4	2285.9	630.6	272.6	218.3	165.9	132.0	112.5	101.9	97.0	96.1
40°	3032.9	2208.2	501.6	248.4	191.1	142.6	113.5	97.0	86.4	79.6	79.6
42.5°	3110.6	2174.3	404.6	225.1	165.9	123.2	99.0	83.4	71.8	65.0	66.0
45°	3347.3	2210.2	338.6	203.7	142.6	106.7	85.4	68.9	58.2	53.4	52.4
47.5°	3740.2	2345.0	293.0	181.4	122.2	91.2	71.8	57.2	46.6	42.7	41.7
50°	4427.2	2623.5	259.1	159.1	103.8	77.6	59.2	45.6	36.9	33.0	33.0
52.5°	5372.2	3230.9	234.8	133.9	87.3	66.0	48.5	36.9	29.1	26.2	25.2
55°	6359.8	3871.2	222.2	112.5	72.8	54.3	38.8	29.1	22.3	19.4	18.4
57.5°	7309.7	4373.8	207.6	91.2	58.2	41.7	30.1	22.3	15.5	13.6	12.6
60°	8220.7	4780.3	176.6	72.8	45.6	30.1	22.3	15.5	10.7	8.7	8.7
62.5°	9035.7	5017.1	138.7	58.2	34.9	21.3	14.6	11.6	7.8	5.8	5.8
65°	9130.8	4709.5	104.8	44.6	25.2	13.6	8.7	8.7	5.8	3.9	3.9
66°	8939.7	4448.5	92.2	40.7	22.3	11.6	7.8	6.8	4.9	2.9	2.9
67.5°	8512.8	4003.2	79.6	34.9	18.4	8.7	5.8	5.8	3.9	1.9	1.9
70°	7355.3	3269.7	63.1	26.2	13.6	6.8	3.9	3.9	2.9	1.9	1.9
72.5°	5606.0	2441.1	51.4	19.4	9.7	4.9	2.9	2.9	2.9	1.9	1.9
75°	3381.2	1314.7	39.8	14.6	8.7	3.9	1.9	2.9	3.9	2.9	1.9
77.5°	1245.8	447.3	31.0	11.6	6.8	3.9	1.9	1.9	3.9	2.9	2.9
80°	305.6	116.4	22.3	9.7	6.8	3.9	1.9	1.9	3.9	3.9	3.9
82.5°	141.7	49.5	15.5	8.7	6.8	3.9	1.9	1.9	2.9	3.9	3.9
85°	81.5	23.3	12.6	9.7	6.8	3.9	1.9	1.9	2.9	3.9	3.9
87.5°	33.0	11.6	11.6	9.7	7.8	4.9	1.9	1.9	1.9	2.9	2.9
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)