

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: P455141

Luminaire Tested: **GALN-SA6B-740-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24773 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

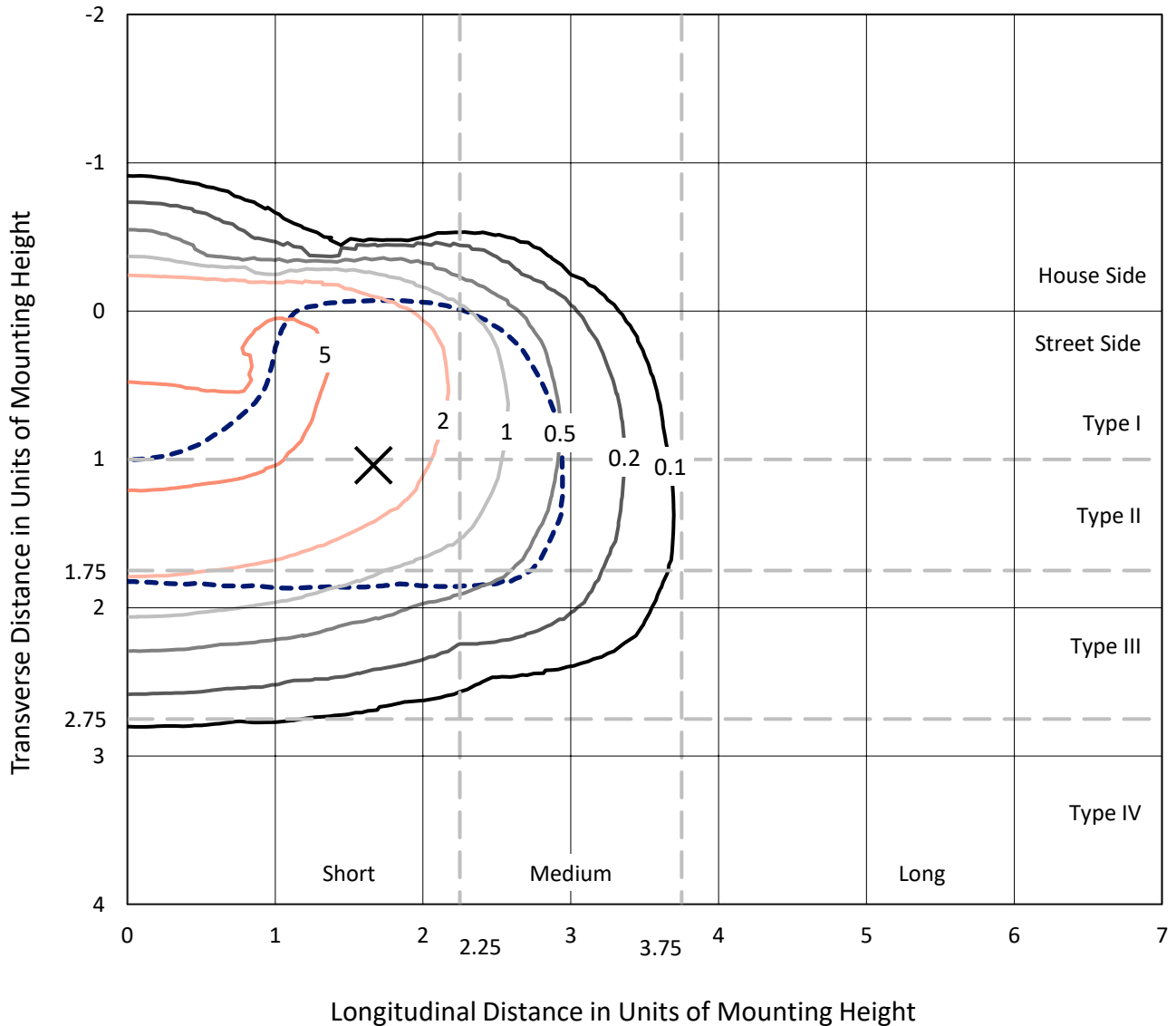
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

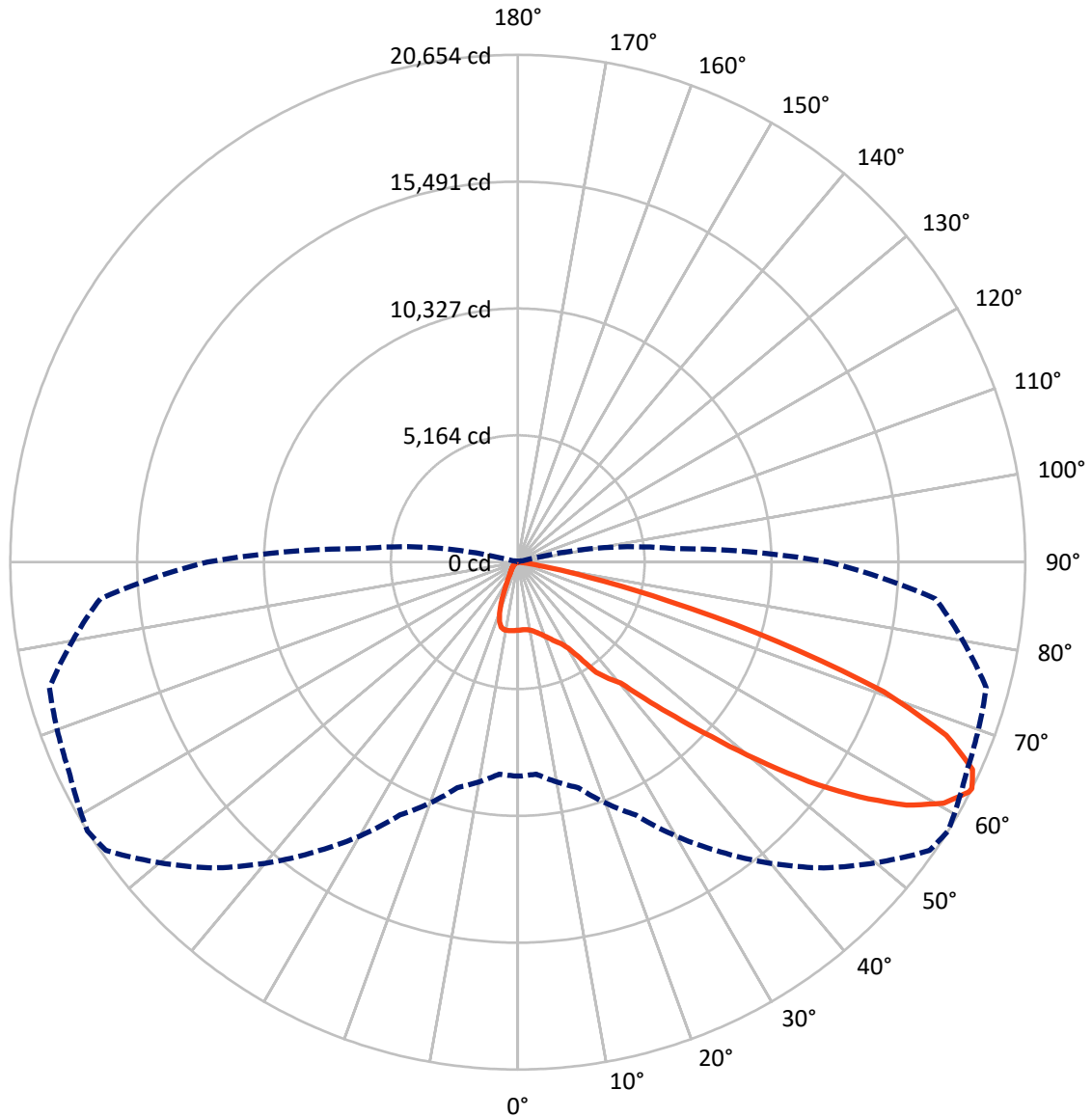
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2565.1	0.0	2565.1
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	22207.9	0.0	22207.9
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	24773.0	0.0	24773.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.6	1.0
10°-20°	707.1	2.9
20°-30°	1227.3	5.0
30°-40°	2255.3	9.1
40°-50°	4245.5	17.1
50°-60°	7261.6	29.3
60°-70°	6953.0	28.1
70°-80°	1773.0	7.2
80°-90°	90.7	0.4
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°	24773.0	100.0
0°-180°	24773.0	100.0

**Coefficient of Utilization**



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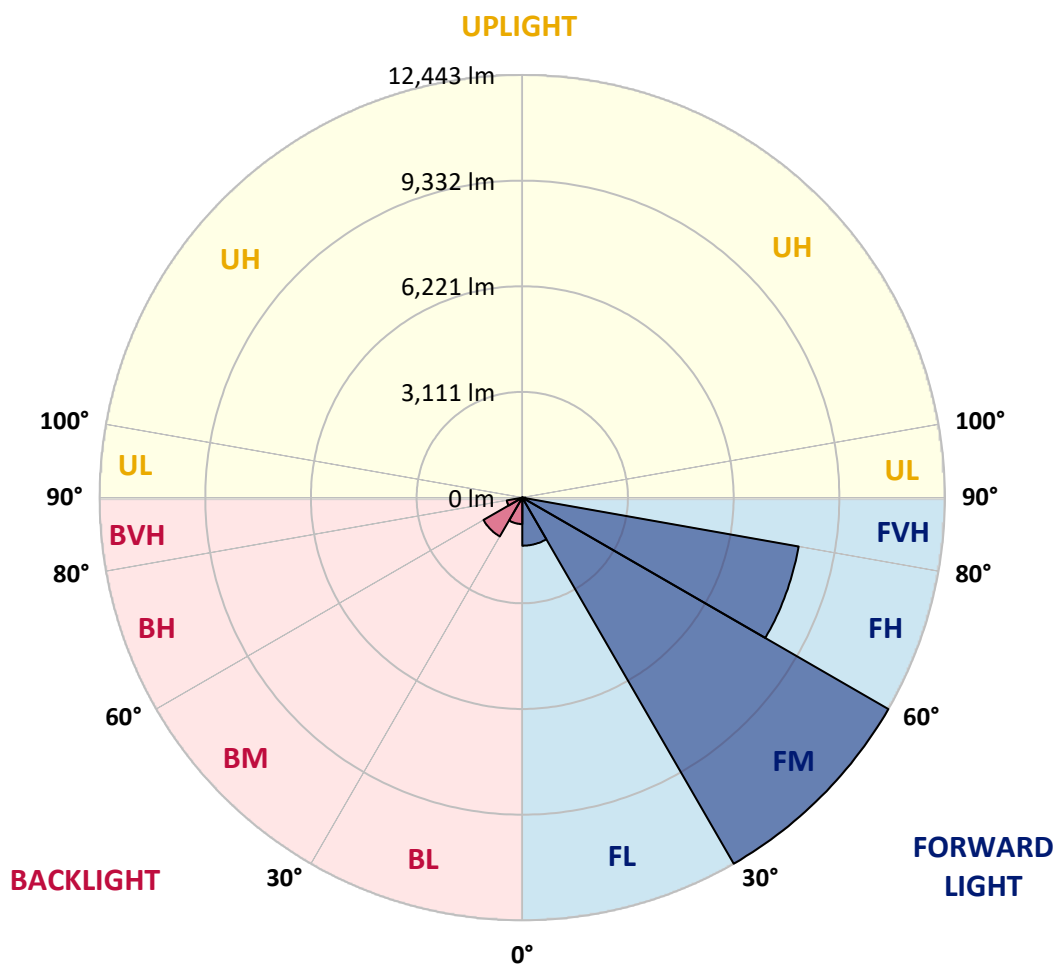
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1416.1	5.7			
FM (30°-60°)	12443.0	50.2			
FH (60°-80°)	8261.7	33.3			G4/12000
FVH (80°-90°)	87.1	0.4			G1/100
BL (0°-30°)	777.9	3.1	B2/1000		
BM (30°-60°)	1319.3	5.3	B2/2500		
BH (60°-80°)	464.3	1.9	B1/500		G1/500
BVH (80°-90°)	3.5	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2773.4	2773.4	2773.4	2773.4	2773.4	2773.4	2773.4	2773.4	2773.4	2773.4	2773.4
2.5°	2704.4	2713.7	2723.1	2726.8	2739.9	2752.9	2762.2	2760.4	2775.3	2782.8	2782.8
5°	2596.2	2596.2	2620.5	2642.9	2680.2	2717.5	2752.9	2760.4	2788.4	2814.5	2823.8
7.5°	2504.9	2510.5	2529.1	2570.1	2620.5	2685.8	2756.6	2773.4	2821.9	2879.7	2904.0
10°	2462.0	2465.7	2489.9	2532.8	2596.2	2685.8	2784.6	2816.3	2890.9	2982.3	3015.9
12.5°	2452.6	2458.2	2482.5	2531.0	2603.7	2711.9	2846.2	2879.7	2987.9	3105.4	3155.8
15°	2469.4	2473.1	2497.4	2549.6	2629.8	2758.5	2928.2	2974.9	3103.6	3239.7	3305.0
17.5°	2529.1	2525.4	2542.2	2585.1	2674.6	2816.3	3027.1	3083.0	3234.1	3420.6	3463.5
20°	2782.8	2758.5	2743.6	2706.3	2741.7	2898.4	3146.5	3228.5	3415.0	3605.3	3635.1
22.5°	3329.2	3275.2	3168.8	3023.4	2911.5	3010.3	3290.1	3385.2	3625.8	3812.3	3812.3
25°	4024.9	3955.9	3849.6	3532.5	3258.4	3195.0	3452.3	3571.7	3855.2	4043.6	3982.0
27.5°	4895.9	4841.9	4634.8	4265.5	3845.9	3517.6	3640.7	3750.8	4058.5	4286.0	4157.4
30°	5604.7	5578.6	5408.8	5078.7	4616.2	4136.8	3991.4	4064.1	4328.9	4591.9	4459.5
32.5°	6203.4	6203.4	6029.9	5722.2	5289.5	4864.2	4586.3	4638.6	4892.2	5196.2	4950.0
35°	6861.8	6839.4	6699.5	6406.7	5921.8	5546.9	5433.1	5504.0	5733.4	5959.1	5352.9
37.5°	7553.7	7546.3	7400.8	7117.3	6721.9	6250.0	5983.3	6002.0	6119.5	6257.5	5824.8
40°	8305.4	8316.6	8126.3	7951.0	7578.0	7094.9	6583.9	6466.4	6576.4	6966.2	6695.8
42.5°	9193.2	9167.1	9085.0	8846.3	8546.0	8256.9	7643.3	7600.4	7697.3	8115.1	7822.3
45°	10224.6	10261.9	10120.1	9987.7	9786.3	9545.7	9032.8	8958.2	9064.5	9713.5	9297.6
47.5°	11257.9	11222.4	11313.8	11289.6	11397.7	11218.7	10765.5	10612.5	10868.1	11483.5	10871.8
50°	12044.9	12084.1	12274.4	12552.3	13016.7	13117.4	12682.8	12630.6	12744.4	13139.8	12279.9
52.5°	12556.0	12686.5	12985.0	13699.3	14536.7	15187.7	14857.5	14829.6	14782.9	14889.3	13626.6
55°	12889.8	13022.3	13412.1	14464.0	15905.7	16963.3	16980.1	16860.7	16552.9	16476.5	14885.5
57.5°	12684.7	12710.8	13266.6	14672.9	16664.8	18229.7	18778.0	18658.7	18089.8	17800.7	15997.1
60°	11401.5	11455.6	12229.6	13882.1	16334.7	18643.7	19969.8	19915.7	19292.8	18966.4	16862.5
62.5°	9127.9	9284.6	10081.0	11923.7	14799.7	17946.2	20452.9	20605.8	20120.9	19671.4	17134.9
63°	8710.1	8659.8	9500.9	11353.0	14393.1	17601.1	20460.4	20654.3	20158.2	19738.6	17060.3
65°	6447.7	6598.8	7145.3	8952.6	11977.8	15995.3	19999.7	20342.9	20020.2	19442.0	16234.0
67.5°	3620.2	3612.7	4217.0	5858.3	8383.7	12546.7	18084.2	18809.7	18742.6	17446.3	13456.8
70°	1771.9	1799.8	2047.9	3036.4	4862.4	8656.0	15027.3	15810.6	15834.9	13703.0	9305.1
72.5°	802.0	815.1	992.2	1479.0	2499.3	4608.7	10355.1	11103.1	10965.0	8732.5	5138.4
75°	423.4	451.4	546.5	744.2	1204.9	1900.6	5632.7	6356.3	6067.2	3989.5	1891.2
77.5°	313.3	322.7	371.2	473.7	645.3	740.5	2430.3	2890.9	2708.2	1443.6	626.7
80°	229.4	236.9	276.0	335.7	406.6	376.8	915.8	1050.1	941.9	490.5	192.1
82.5°	139.9	141.7	201.4	249.9	255.5	210.8	302.1	324.5	339.5	276.0	104.4
85°	50.4	63.4	136.2	180.9	151.1	106.3	126.8	139.9	152.9	175.3	61.5
87.5°	5.6	7.5	65.3	87.7	42.9	39.2	46.6	52.2	56.0	65.3	29.8
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°	2773.4	2773.4	2773.4	2773.4	2773.4	2773.4	2773.4	2773.4	2773.4	2773.4	2773.4
2.5°	2790.2	2797.7	2792.1	2782.8	2780.9	2775.3	2764.1	2764.1	2764.1	2767.8	2764.1
5°	2831.3	2836.8	2823.8	2805.1	2784.6	2758.5	2730.5	2713.7	2711.9	2708.2	2698.8
7.5°	2909.6	2917.0	2887.2	2842.4	2786.5	2723.1	2663.4	2607.4	2581.3	2560.8	2560.8
10°	3023.4	3030.8	2971.1	2890.9	2779.0	2650.3	2508.6	2379.9	2279.2	2232.5	2221.4
12.5°	3159.5	3163.2	3064.4	2924.5	2739.9	2491.8	2189.7	1908.0	1712.2	1622.7	1613.3
15°	3308.7	3282.6	3152.1	2937.6	2628.0	2165.4	1643.2	1298.1	1094.8	1035.1	1057.5
17.5°	3459.8	3411.3	3219.2	2917.0	2376.2	1643.2	1104.2	885.9	822.5	805.7	805.7
20°	3601.5	3534.4	3267.7	2827.5	1939.7	1132.1	818.8	766.6	755.4	744.2	746.0
22.5°	3743.3	3640.7	3310.6	2628.0	1445.5	809.5	733.0	716.2	701.3	686.4	684.5
25°	3881.3	3739.6	3327.4	2258.7	984.8	695.7	669.6	647.2	617.4	600.6	596.8
27.5°	4024.9	3858.9	3316.2	1792.4	718.1	623.0	596.8	565.1	529.7	499.9	499.9
30°	4301.0	4086.5	3277.0	1288.8	604.3	548.3	514.8	464.4	425.2	395.4	393.5
32.5°	4677.7	4383.0	3142.7	906.4	537.2	483.1	432.7	376.8	335.7	313.3	313.3
35°	5013.4	4681.5	2890.9	667.7	483.1	419.7	358.1	304.0	272.3	257.4	251.8
37.5°	5524.5	5117.9	2544.0	542.7	430.8	363.7	300.3	249.9	223.8	212.6	212.6
40°	6291.0	5651.3	2118.8	475.6	380.5	309.6	249.9	210.8	190.2	177.2	177.2
42.5°	7242.3	6304.1	1687.9	427.1	333.9	266.7	208.9	179.1	160.4	151.1	149.2
45°	8439.7	6992.3	1300.0	382.3	296.6	227.5	177.2	151.1	132.4	126.8	128.7
47.5°	9689.3	7598.5	1007.2	343.2	257.4	192.1	151.1	130.6	117.5	110.0	110.0
50°	10756.1	8016.3	764.7	298.4	227.5	162.3	132.4	117.5	106.3	102.6	100.7
52.5°	11647.7	8137.5	585.6	259.3	199.6	139.9	117.5	106.3	97.0	91.4	91.4
55°	12406.8	8031.2	458.8	218.2	167.9	121.2	104.4	95.1	83.9	78.3	76.5
57.5°	12850.7	7689.9	350.6	180.9	136.2	100.7	91.4	80.2	67.1	57.8	57.8
60°	13074.5	7193.8	268.6	149.2	104.4	80.2	74.6	59.7	46.6	39.2	37.3
62.5°	12805.9	6535.4	203.3	117.5	78.3	59.7	50.4	42.9	29.8	22.4	22.4
63°	12639.9	6345.1	195.8	111.9	72.7	56.0	46.6	39.2	26.1	20.5	18.7
65°	11522.7	5515.2	160.4	89.5	57.8	39.2	31.7	28.0	18.7	9.3	7.5
67.5°	9150.3	4218.9	126.8	67.1	41.0	28.0	18.7	16.8	5.6	0.0	0.0
70°	6186.6	2724.9	98.9	48.5	28.0	16.8	9.3	7.5	1.9	0.0	0.0
72.5°	3226.7	1397.0	76.5	35.4	16.8	11.2	5.6	1.9	0.0	0.0	0.0
75°	1141.5	475.6	56.0	22.4	11.2	5.6	1.9	0.0	0.0	0.0	0.0
77.5°	345.0	177.2	35.4	16.8	7.5	3.7	0.0	0.0	0.0	0.0	0.0
80°	121.2	65.3	20.5	11.2	5.6	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	59.7	31.7	13.1	9.3	5.6	1.9	0.0	0.0	0.0	0.0	0.0
85°	33.6	20.5	11.2	9.3	5.6	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	24.2	14.9	11.2	9.3	7.5	3.7	1.9	0.0	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)