

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: P454416

Luminaire Tested: **GALN-SA5C-730-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454416  
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-SA5C-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA 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: 23541 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

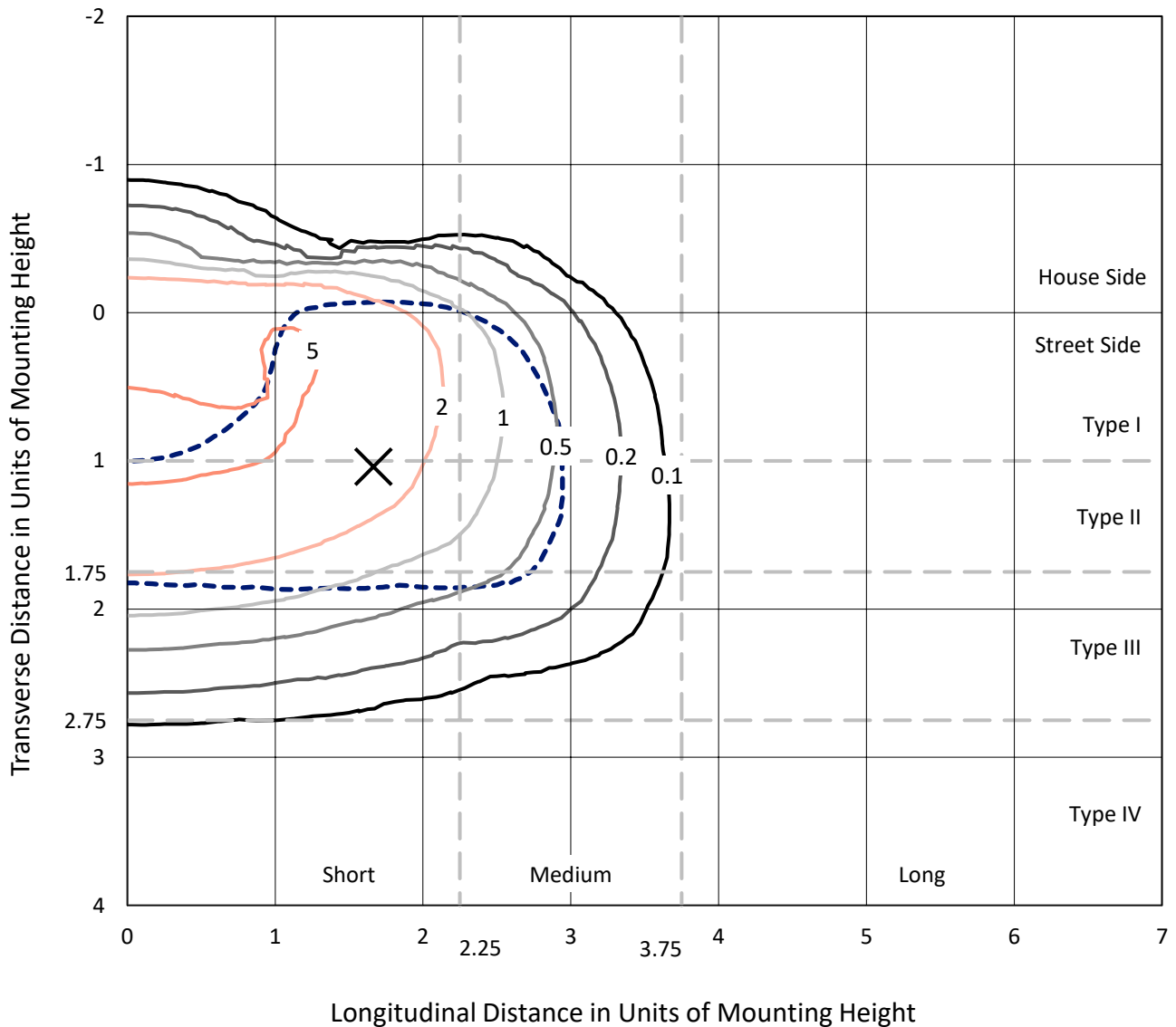
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

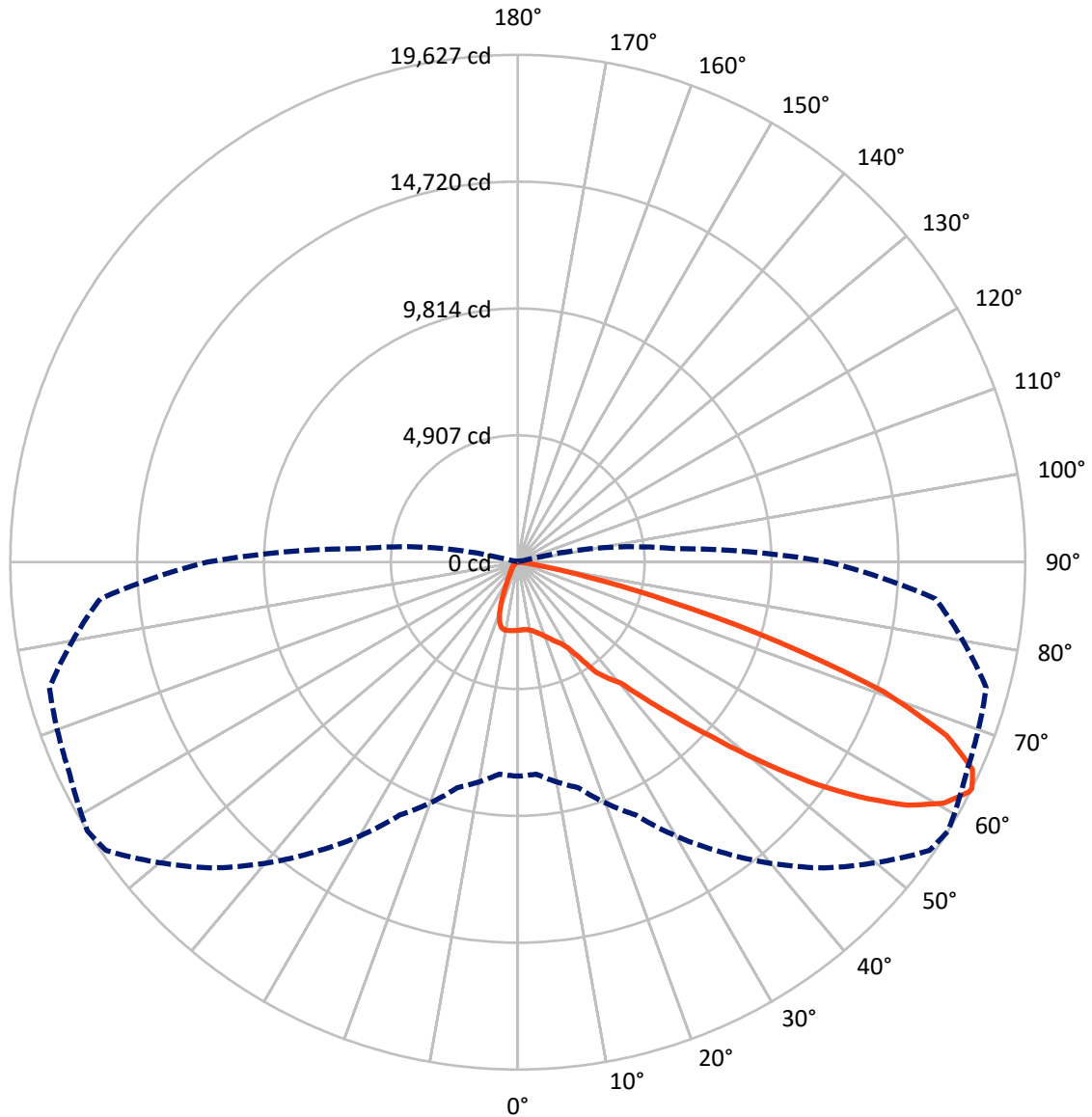
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2437.5	0.0	2437.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	21103.5	0.0	21103.5
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	23541.0	0.0	23541.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.7	1.0
10°-20°	672.0	2.9
20°-30°	1166.2	5.0
30°-40°	2143.1	9.1
40°-50°	4034.3	17.1
50°-60°	6900.4	29.3
60°-70°	6607.2	28.1
70°-80°	1684.9	7.2
80°-90°	86.1	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°	23541.0	100.0
0°-180°	23541.0	100.0



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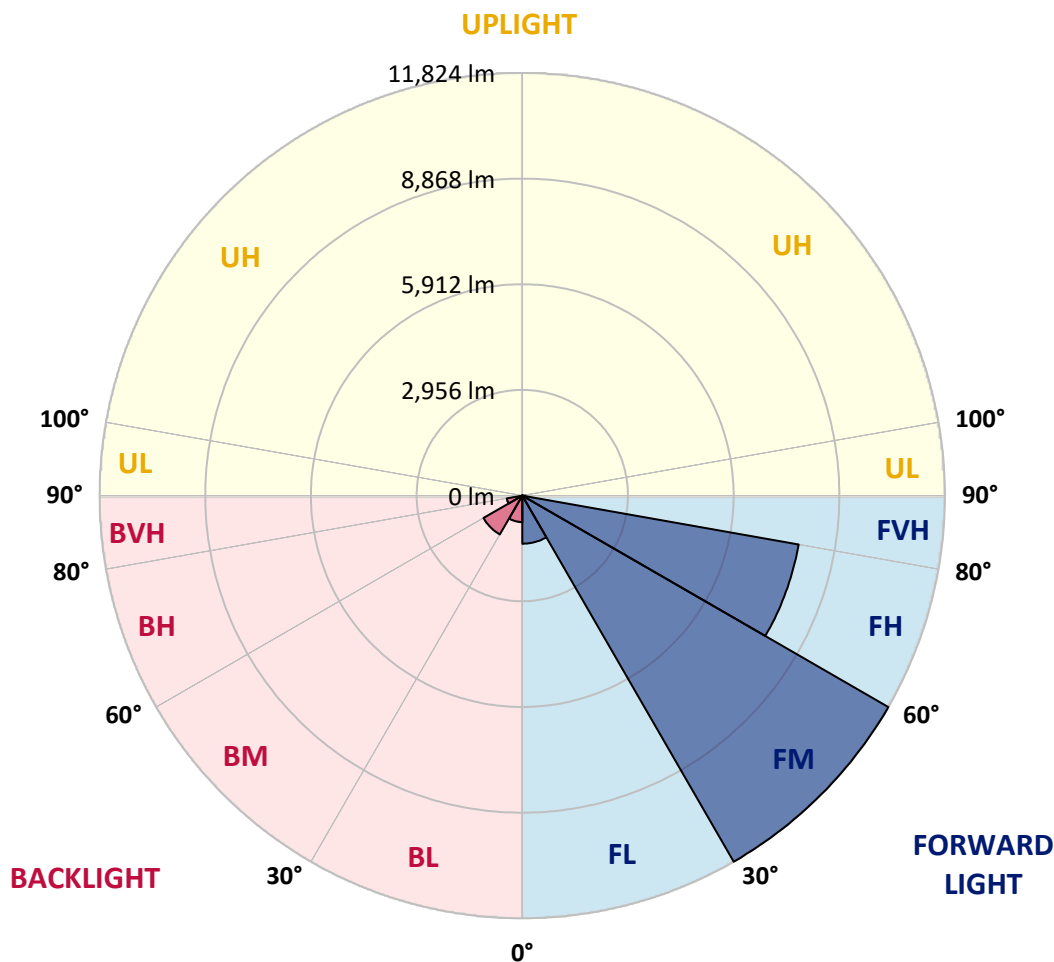
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1345.7	5.7			
FM	(30°-60°)	11824.2	50.2			
FH	(60°-80°)	7850.8	33.3			G4/12000
FVH	(80°-90°)	82.8	0.4			G1/100
BL	(0°-30°)	739.2	3.1	B2/1000		
BM	(30°-60°)	1253.7	5.3	B2/2500		
BH	(60°-80°)	441.2	1.9	B1/500		G1/500
BVH	(80°-90°)	3.3	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5
2.5°	2569.9	2578.8	2587.7	2591.2	2603.6	2616.0	2624.9	2623.1	2637.3	2644.4	2644.4
5°	2467.1	2467.1	2490.2	2511.4	2546.9	2582.3	2616.0	2623.1	2649.7	2674.5	2683.4
7.5°	2380.3	2385.6	2403.3	2442.3	2490.2	2552.2	2619.6	2635.5	2681.6	2736.5	2759.6
10°	2339.5	2343.1	2366.1	2406.9	2467.1	2552.2	2646.1	2676.3	2747.2	2834.0	2865.9
12.5°	2330.7	2336.0	2359.0	2405.1	2474.2	2577.0	2704.6	2736.5	2839.3	2951.0	2998.8
15°	2346.6	2350.2	2373.2	2422.8	2499.0	2621.3	2782.6	2826.9	2949.2	3078.6	3140.6
17.5°	2403.3	2399.8	2415.7	2456.5	2541.6	2676.3	2876.5	2929.7	3073.3	3250.5	3291.3
20°	2644.4	2621.3	2607.1	2571.7	2605.4	2754.3	2990.0	3068.0	3245.2	3426.0	3454.3
22.5°	3163.7	3112.3	3011.2	2873.0	2766.7	2860.6	3126.5	3216.8	3445.5	3622.7	3622.7
25°	3824.8	3759.2	3658.2	3356.9	3096.3	3036.1	3280.6	3394.1	3663.5	3842.5	3784.0
27.5°	4652.5	4601.1	4404.3	4053.4	3654.6	3342.7	3459.7	3564.2	3856.7	4072.9	3950.6
30°	5326.0	5301.1	5139.9	4826.1	4386.6	3931.1	3792.9	3862.0	4113.7	4363.6	4237.7
32.5°	5894.9	5894.9	5730.1	5437.6	5026.4	4622.3	4358.2	4407.9	4648.9	4937.8	4703.9
35°	6520.5	6499.3	6366.3	6088.1	5627.3	5271.0	5162.9	5230.2	5448.2	5662.7	5086.7
37.5°	7178.1	7171.0	7032.7	6763.3	6387.6	5939.2	5685.7	5703.5	5815.1	5946.3	5535.1
40°	7892.3	7903.0	7722.2	7555.6	7201.1	6742.1	6256.4	6144.8	6249.4	6619.8	6362.8
42.5°	8736.0	8711.2	8633.2	8406.3	8121.0	7846.3	7263.1	7222.4	7314.5	7711.6	7433.3
45°	9716.1	9751.5	9616.8	9491.0	9299.6	9071.0	8583.6	8512.7	8613.7	9230.5	8835.2
47.5°	10698.0	10664.3	10751.2	10728.1	10830.9	10660.8	10230.1	10084.8	10327.6	10912.4	10331.1
50°	11445.9	11483.1	11663.9	11928.0	12369.3	12465.0	12052.1	12002.5	12110.6	12486.3	11669.2
52.5°	11931.6	12055.6	12339.2	13018.0	13813.8	14432.4	14118.7	14092.1	14047.8	14148.8	12948.9
55°	12248.8	12374.6	12745.1	13744.7	15114.7	16119.7	16135.6	16022.2	15729.7	15657.1	14145.2
57.5°	12053.9	12078.7	12606.8	13943.2	15836.1	17323.1	17844.2	17730.7	17190.2	16915.4	15201.6
60°	10834.5	10885.9	11621.4	13191.7	15522.4	17716.6	18976.7	18925.3	18333.3	18023.2	16023.9
62.5°	8674.0	8822.8	9579.6	11330.7	14063.7	17053.7	19435.7	19581.1	19120.3	18693.1	16282.7
63°	8276.9	8229.1	9028.4	10788.4	13677.3	16725.8	19442.8	19627.2	19155.7	18756.9	16211.8
65°	6127.1	6270.6	6789.9	8507.3	11382.1	15199.8	19005.1	19331.2	19024.6	18475.1	15426.7
67.5°	3440.2	3433.1	4007.3	5567.0	7966.8	11922.7	17184.8	17874.3	17810.5	16578.7	12787.6
70°	1683.7	1710.3	1946.1	2885.4	4620.6	8225.5	14279.9	15024.3	15047.4	13021.6	8842.3
72.5°	762.1	774.5	942.9	1405.5	2375.0	4379.5	9840.2	10550.9	10419.7	8298.2	4882.9
75°	402.3	428.9	519.3	707.2	1144.9	1806.0	5352.5	6040.2	5765.5	3791.1	1797.2
77.5°	297.8	306.6	352.7	450.2	613.2	703.6	2309.4	2747.2	2573.5	1371.8	595.5
80°	218.0	225.1	262.3	319.0	386.4	358.0	870.2	997.8	895.0	466.1	182.6
82.5°	132.9	134.7	191.4	237.5	242.8	200.3	287.1	308.4	322.6	262.3	99.3
85°	47.9	60.3	129.4	171.9	143.6	101.0	120.5	132.9	145.3	166.6	58.5
87.5°	5.3	7.1	62.0	83.3	40.8	37.2	44.3	49.6	53.2	62.0	28.4
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°	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5
2.5°	2651.5	2658.5	2653.2	2644.4	2642.6	2637.3	2626.6	2626.6	2626.6	2630.2	2626.6
5°	2690.4	2695.8	2683.4	2665.6	2646.1	2621.3	2594.7	2578.8	2577.0	2573.5	2564.6
7.5°	2764.9	2772.0	2743.6	2701.1	2647.9	2587.7	2530.9	2477.8	2453.0	2433.5	2433.5
10°	2873.0	2880.1	2823.4	2747.2	2640.8	2518.5	2383.8	2261.5	2165.8	2121.5	2110.9
12.5°	3002.4	3005.9	2912.0	2779.1	2603.6	2367.9	2080.8	1813.1	1627.0	1542.0	1533.1
15°	3144.2	3119.4	2995.3	2791.5	2497.3	2057.7	1561.5	1233.6	1040.4	983.7	1004.9
17.5°	3287.7	3241.7	3059.1	2772.0	2258.0	1561.5	1049.2	841.9	781.6	765.7	765.7
20°	3422.4	3358.6	3105.2	2686.9	1843.3	1075.8	778.1	728.4	717.8	707.2	708.9
22.5°	3557.1	3459.7	3145.9	2497.3	1373.6	769.2	696.5	680.6	666.4	652.2	650.5
25°	3688.3	3553.6	3161.9	2146.3	935.8	661.1	636.3	615.0	586.7	570.7	567.2
27.5°	3824.8	3667.0	3151.3	1703.2	682.4	592.0	567.2	537.0	503.4	475.0	475.0
30°	4087.1	3883.3	3114.0	1224.7	574.2	521.1	489.2	441.3	404.1	375.7	374.0
32.5°	4445.1	4165.1	2986.4	861.4	510.4	459.0	411.2	358.0	319.0	297.8	297.8
35°	4764.1	4448.6	2747.2	634.5	459.0	398.8	340.3	288.9	258.8	244.6	239.3
37.5°	5249.7	4863.4	2417.5	515.8	409.4	345.6	285.4	237.5	212.7	202.0	202.0
40°	5978.2	5370.3	2013.4	452.0	361.6	294.2	237.5	200.3	180.8	168.4	168.4
42.5°	6882.1	5990.6	1604.0	405.9	317.3	253.4	198.5	170.1	152.4	143.6	141.8
45°	8019.9	6644.6	1235.3	363.3	281.8	216.2	168.4	143.6	125.8	120.5	122.3
47.5°	9207.4	7220.6	957.1	326.1	244.6	182.6	143.6	124.1	111.7	104.6	104.6
50°	10221.2	7617.6	726.7	283.6	216.2	154.2	125.8	111.7	101.0	97.5	95.7
52.5°	11068.4	7732.8	556.5	246.4	189.6	132.9	111.7	101.0	92.2	86.8	86.8
55°	11789.8	7631.8	436.0	207.4	159.5	115.2	99.3	90.4	79.8	74.4	72.7
57.5°	12211.6	7307.5	333.2	171.9	129.4	95.7	86.8	76.2	63.8	54.9	54.9
60°	12424.3	6836.0	255.2	141.8	99.3	76.2	70.9	56.7	44.3	37.2	35.4
62.5°	12169.1	6210.4	193.2	111.7	74.4	56.7	47.9	40.8	28.4	21.3	21.3
63°	12011.3	6029.6	186.1	106.3	69.1	53.2	44.3	37.2	24.8	19.5	17.7
65°	10949.7	5240.9	152.4	85.1	54.9	37.2	30.1	26.6	17.7	8.9	7.1
67.5°	8695.2	4009.1	120.5	63.8	39.0	26.6	17.7	16.0	5.3	0.0	0.0
70°	5878.9	2589.4	93.9	46.1	26.6	16.0	8.9	7.1	1.8	0.0	0.0
72.5°	3066.2	1327.5	72.7	33.7	16.0	10.6	5.3	1.8	0.0	0.0	0.0
75°	1084.7	452.0	53.2	21.3	10.6	5.3	1.8	0.0	0.0	0.0	0.0
77.5°	327.9	168.4	33.7	16.0	7.1	3.5	0.0	0.0	0.0	0.0	0.0
80°	115.2	62.0	19.5	10.6	5.3	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	56.7	30.1	12.4	8.9	5.3	1.8	0.0	0.0	0.0	0.0	0.0
85°	31.9	19.5	10.6	8.9	5.3	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	23.0	14.2	10.6	8.9	7.1	3.5	1.8	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)