

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: P458813

Luminaire Tested: **GALN-SA3C-735-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458813  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3C-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16082 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

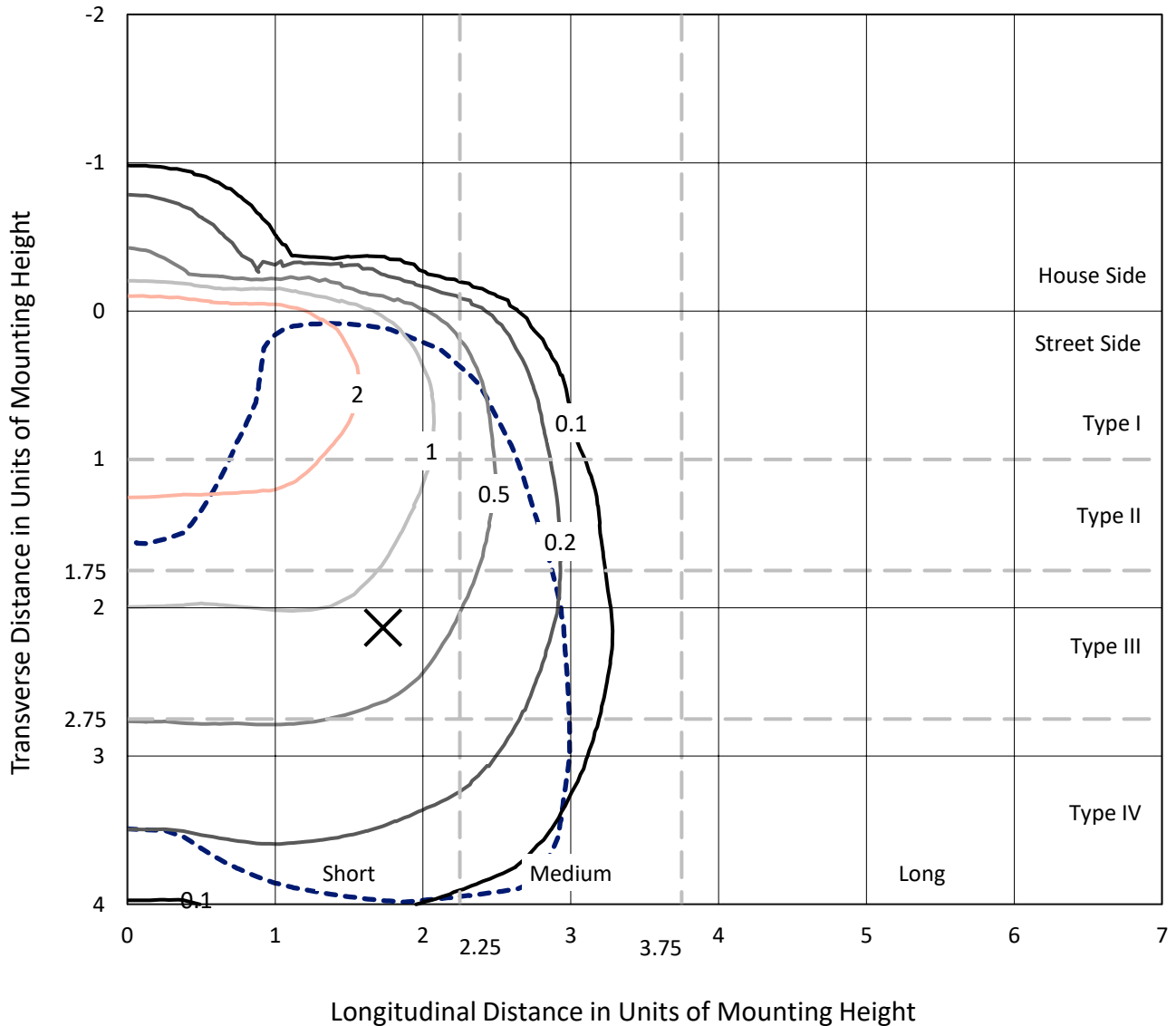
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

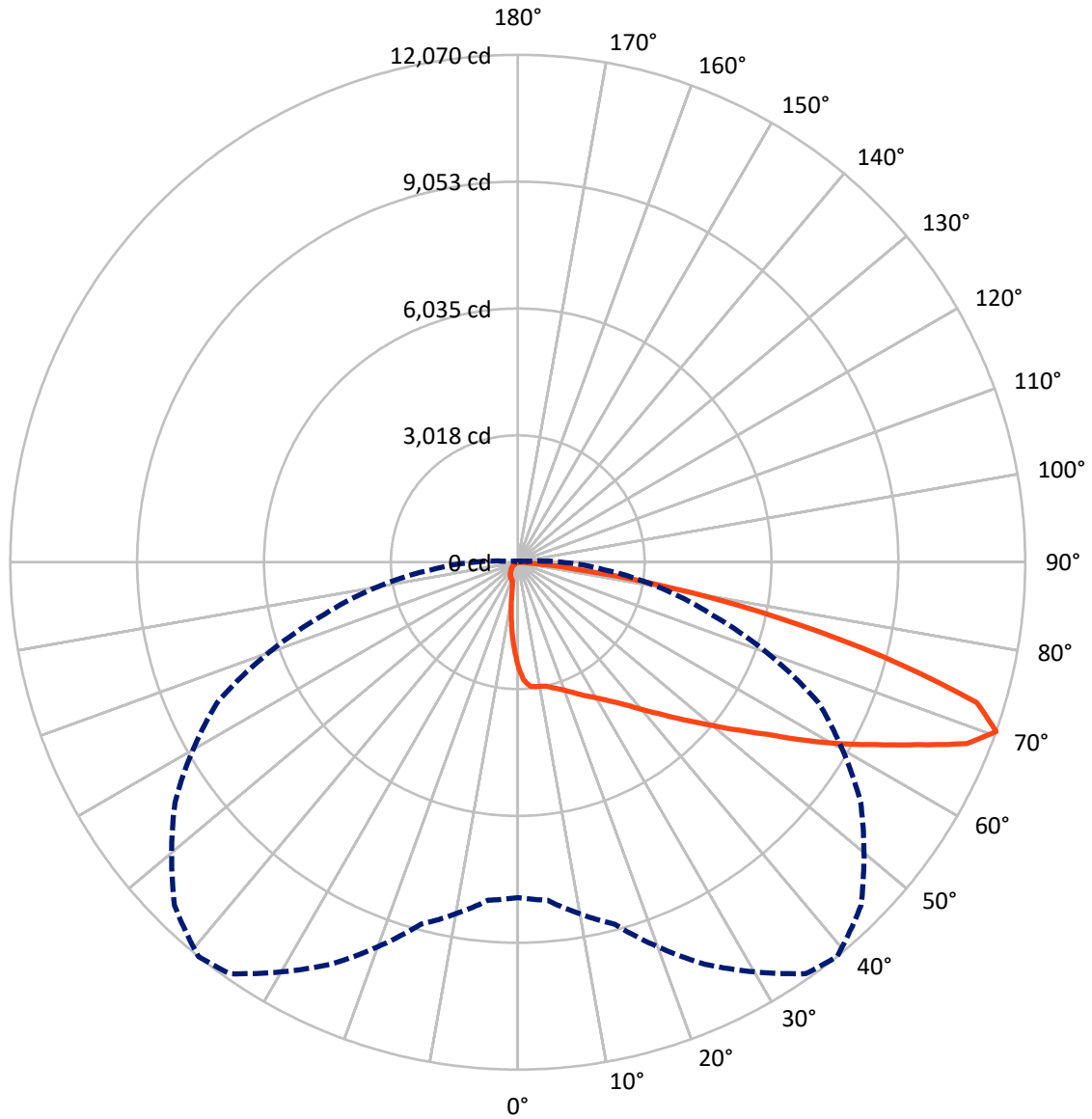
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1048.6	0.0	1048.6
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	15033.4	0.0	15033.4
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	16082.0	0.0	16082.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.0	1.3
10°-20°	556.2	3.5
20°-30°	931.8	5.8
30°-40°	1445.1	9.0
40°-50°	2290.0	14.2
50°-60°	3356.9	20.9
60°-70°	4302.7	26.8
70°-80°	2703.7	16.8
80°-90°	281.7	1.8
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°	16082.0	100.0
0°-180°	16082.0	100.0



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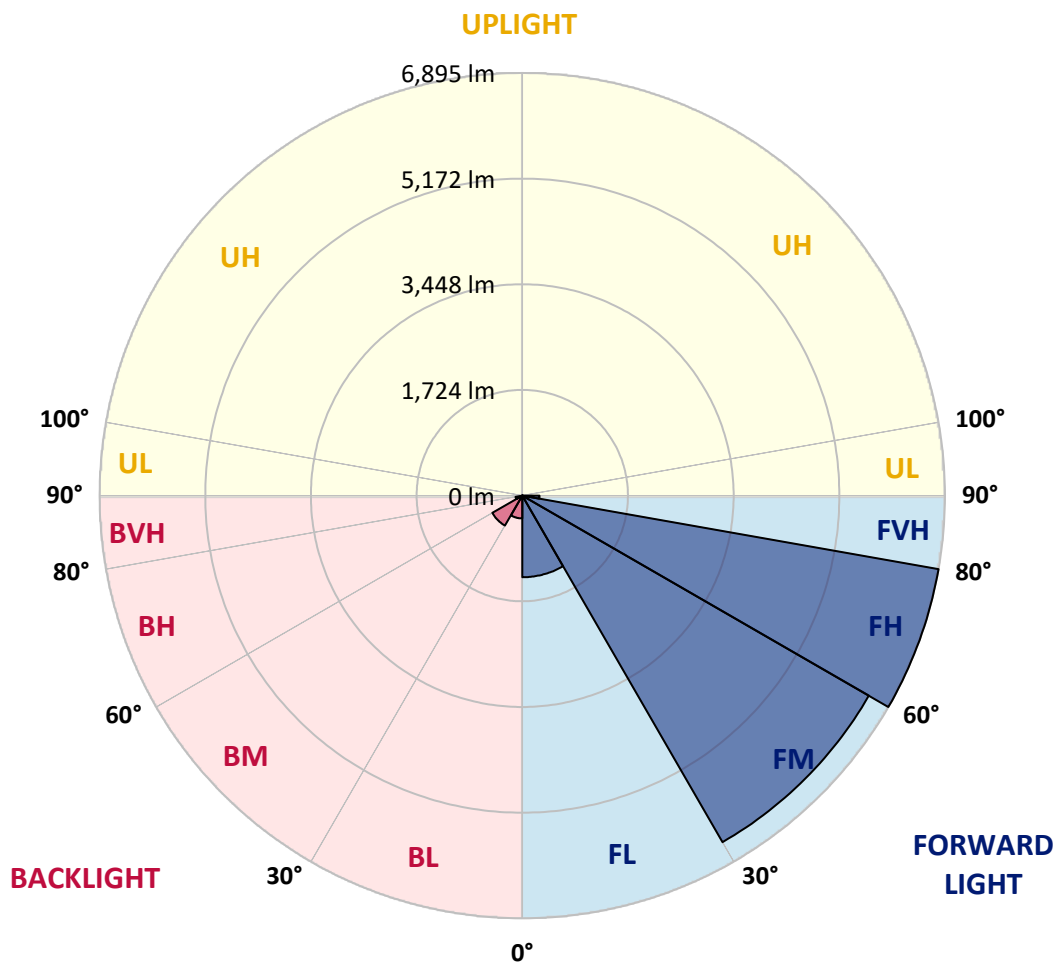
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1330.7	8.3			
FM (30°-60°)	6527.6	40.6			
FH (60°-80°)	6895.4	42.9			G3/7500
FVH (80°-90°)	279.6	1.7			G3/500
BL (0°-30°)	371.3	2.3	B1/500		
BM (30°-60°)	564.3	3.5	B1/1000		
BH (60°-80°)	110.9	0.7	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3
2.5°	2899.5	2889.7	2876.8	2861.6	2818.4	2810.9	2784.9	2729.8	2663.9	2609.8	2535.3
5°	3036.7	3042.1	3032.4	3005.4	2974.0	2955.7	2923.2	2837.9	2752.5	2643.3	2521.2
7.5°	3068.1	3078.9	3067.0	3041.0	3010.8	2991.3	2965.4	2891.9	2792.5	2668.2	2500.7
10°	3064.8	3077.8	3070.2	3046.4	3021.6	3003.2	2975.1	2916.8	2836.8	2706.0	2507.2
12.5°	3059.4	3076.7	3075.6	3063.7	3043.2	3029.2	3011.9	2960.0	2885.4	2761.1	2542.8
15°	3044.3	3065.9	3085.3	3095.1	3096.2	3096.2	3074.5	3019.4	2948.1	2833.5	2589.3
17.5°	3050.8	3075.6	3124.3	3152.3	3171.8	3169.6	3146.9	3087.5	3008.6	2908.1	2637.9
20°	3090.8	3124.3	3192.3	3248.5	3268.0	3261.5	3231.2	3162.1	3072.4	2971.9	2685.5
22.5°	3189.1	3219.4	3304.7	3370.6	3384.7	3367.4	3324.2	3230.2	3149.1	3041.0	2742.8
25°	3336.1	3371.7	3450.6	3500.3	3500.3	3490.6	3430.1	3319.9	3235.6	3137.2	2817.3
27.5°	3514.4	3544.6	3622.4	3666.8	3640.8	3612.7	3552.2	3419.3	3338.2	3258.3	2907.0
30°	3694.9	3714.3	3796.4	3815.9	3788.9	3753.2	3688.4	3555.4	3484.1	3422.5	3036.7
32.5°	3865.6	3907.7	3975.8	3971.5	3934.8	3917.5	3858.0	3716.5	3676.5	3670.0	3218.3
35°	4036.3	4068.8	4129.3	4144.4	4112.0	4108.8	4065.5	3960.7	3961.8	4003.9	3501.4
37.5°	4183.3	4212.5	4283.8	4317.3	4323.8	4340.0	4322.7	4253.6	4351.9	4467.5	3876.4
40°	4306.5	4347.6	4438.4	4496.7	4563.7	4623.2	4626.4	4641.5	4839.3	5038.1	4366.0
42.5°	4402.7	4460.0	4591.8	4699.9	4853.3	4929.0	4989.5	5072.7	5405.6	5702.8	4943.0
45°	4528.1	4594.0	4758.2	4927.9	5167.8	5292.1	5376.4	5599.0	6071.3	6476.5	5535.3
47.5°	4735.5	4770.1	4937.6	5185.1	5500.7	5677.9	5842.2	6179.3	6785.6	7148.7	6028.0
50°	5002.5	5025.2	5151.6	5495.3	5903.8	6137.2	6436.5	6833.2	7527.0	7706.3	6306.9
52.5°	5297.5	5305.1	5400.2	5836.8	6355.5	6649.4	6984.4	7474.0	8131.1	8104.0	6491.7
55°	5640.1	5629.3	5710.3	6207.4	6890.4	7226.5	7616.6	8130.0	8655.2	8386.1	6597.6
57.5°	6032.4	6003.2	6082.1	6699.1	7575.6	7977.6	8374.2	8696.2	9061.5	8622.8	6648.4
60°	6443.0	6384.7	6478.7	7251.4	8382.9	8764.3	9093.9	9180.4	9489.5	8810.8	6560.8
62.5°	6770.5	6771.6	6946.6	7839.3	9212.8	9546.7	9721.8	9799.6	9858.0	8769.7	6100.4
65°	7281.6	7298.9	7578.8	8655.2	10173.5	10463.2	10583.1	10330.2	9874.2	8259.7	5408.8
67.5°	7809.0	7864.1	8376.4	9779.1	11283.4	11516.8	11362.3	10432.9	9433.3	7095.8	4101.2
70°	7980.8	8071.6	8915.6	10552.9	11949.1	12070.1	11547.1	9954.2	7885.7	4744.2	2064.1
72.5°	7313.0	7459.9	8605.5	10270.8	11524.4	11419.6	10331.3	8348.3	5013.3	1801.5	630.0
75°	5157.0	5221.9	7152.0	8520.1	9269.0	8971.8	7858.7	5381.8	2061.9	505.8	216.1
77.5°	2662.8	2631.5	4253.6	5653.0	6610.5	6302.5	5146.2	2786.0	781.3	210.7	134.0
80°	1376.8	1399.5	1840.4	2962.1	4035.3	3713.2	2743.9	1291.4	416.1	116.7	102.7
82.5°	771.6	724.1	1058.0	1293.6	1886.9	1479.5	1052.6	914.3	181.6	70.2	97.3
85°	140.5	147.0	580.3	699.2	654.9	416.1	339.3	610.6	53.0	38.9	68.1
87.5°	2.2	2.2	112.4	201.0	127.5	58.4	107.0	87.5	10.8	15.1	11.9
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°	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3	2509.3
2.5°	2497.5	2456.4	2379.7	2304.0	2207.8	2128.9	2076.0	2020.9	1964.7	1969.0	1982.0
5°	2454.2	2382.9	2231.6	2071.7	1918.2	1779.9	1643.7	1521.6	1471.9	1426.5	1428.7
7.5°	2411.0	2310.5	2089.0	1838.2	1605.9	1370.3	1199.6	1059.1	984.5	928.3	912.1
10°	2391.5	2258.6	1958.2	1613.5	1283.9	1026.6	807.3	692.7	604.1	576.0	583.6
12.5°	2400.2	2232.7	1840.4	1410.3	1018.0	715.4	562.0	503.6	484.1	480.9	478.7
15°	2416.4	2214.3	1724.8	1185.5	747.8	531.7	472.3	461.5	459.3	457.1	458.2
17.5°	2438.0	2198.1	1601.6	974.8	573.8	464.7	447.4	442.0	440.9	440.9	440.9
20°	2459.6	2179.7	1464.3	786.7	478.7	438.8	428.0	424.7	423.6	423.6	422.5
22.5°	2484.5	2163.5	1324.9	618.2	440.9	420.4	410.7	408.5	407.4	406.3	406.3
25°	2520.2	2143.0	1176.9	505.8	417.1	403.1	393.4	391.2	390.1	385.8	386.9
27.5°	2567.7	2127.9	1024.5	436.6	395.5	381.5	375.0	371.8	369.6	366.4	367.4
30°	2632.5	2114.9	862.4	398.8	370.7	358.8	352.3	350.1	348.0	344.7	344.7
32.5°	2744.9	2120.3	691.6	368.5	348.0	333.9	327.4	325.3	323.1	319.9	319.9
35°	2913.5	2151.6	553.3	342.6	321.0	306.9	300.4	300.4	297.2	292.9	291.8
37.5°	3189.1	2231.6	444.2	317.7	295.0	282.1	274.5	272.3	269.1	262.6	261.5
40°	3514.4	2355.9	373.9	292.9	271.3	258.3	251.8	245.3	236.7	230.2	229.1
42.5°	3922.9	2483.4	324.2	268.0	248.6	236.7	229.1	218.3	205.3	196.7	195.6
45°	4348.7	2600.1	290.7	245.3	226.9	217.2	208.6	191.3	175.1	164.3	163.2
47.5°	4666.4	2621.7	263.7	223.7	208.6	198.8	187.0	165.3	143.7	134.0	130.8
50°	4816.6	2516.9	235.6	202.1	190.2	179.4	164.3	139.4	115.6	103.7	101.6
52.5°	4869.6	2335.4	212.9	182.6	171.8	158.9	140.5	112.4	90.8	78.9	77.8
55°	4847.9	2106.2	192.4	164.3	150.2	135.1	116.7	89.7	67.0	57.3	55.1
57.5°	4734.5	1814.5	171.8	145.9	128.6	113.5	92.9	67.0	45.4	36.7	35.7
60°	4428.6	1416.8	151.3	125.4	109.1	92.9	73.5	47.6	28.1	20.5	20.5
62.5°	3912.1	1051.5	131.8	104.8	91.9	74.6	51.9	30.3	15.1	10.8	9.7
65°	3269.1	775.9	110.2	88.6	76.7	58.4	36.7	18.4	7.6	3.2	2.2
67.5°	2281.3	478.7	91.9	72.4	62.7	42.1	22.7	7.6	3.2	0.0	0.0
70°	1036.4	228.0	70.2	55.1	47.6	30.3	11.9	4.3	2.2	0.0	0.0
72.5°	322.0	120.0	49.7	40.0	32.4	19.5	6.5	3.2	2.2	0.0	0.0
75°	149.1	76.7	31.3	21.6	18.4	9.7	4.3	2.2	1.1	0.0	0.0
77.5°	111.3	59.4	18.4	11.9	9.7	6.5	3.2	2.2	1.1	0.0	0.0
80°	97.3	30.3	10.8	7.6	5.4	4.3	2.2	1.1	0.0	0.0	0.0
82.5°	87.5	15.1	6.5	4.3	3.2	2.2	1.1	1.1	0.0	0.0	0.0
85°	47.6	8.6	4.3	3.2	2.2	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	8.6	4.3	3.2	2.2	2.2	1.1	1.1	1.1	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)