

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: P459147

Luminaire Tested: **GALN-SA6B-735-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459147  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22634 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

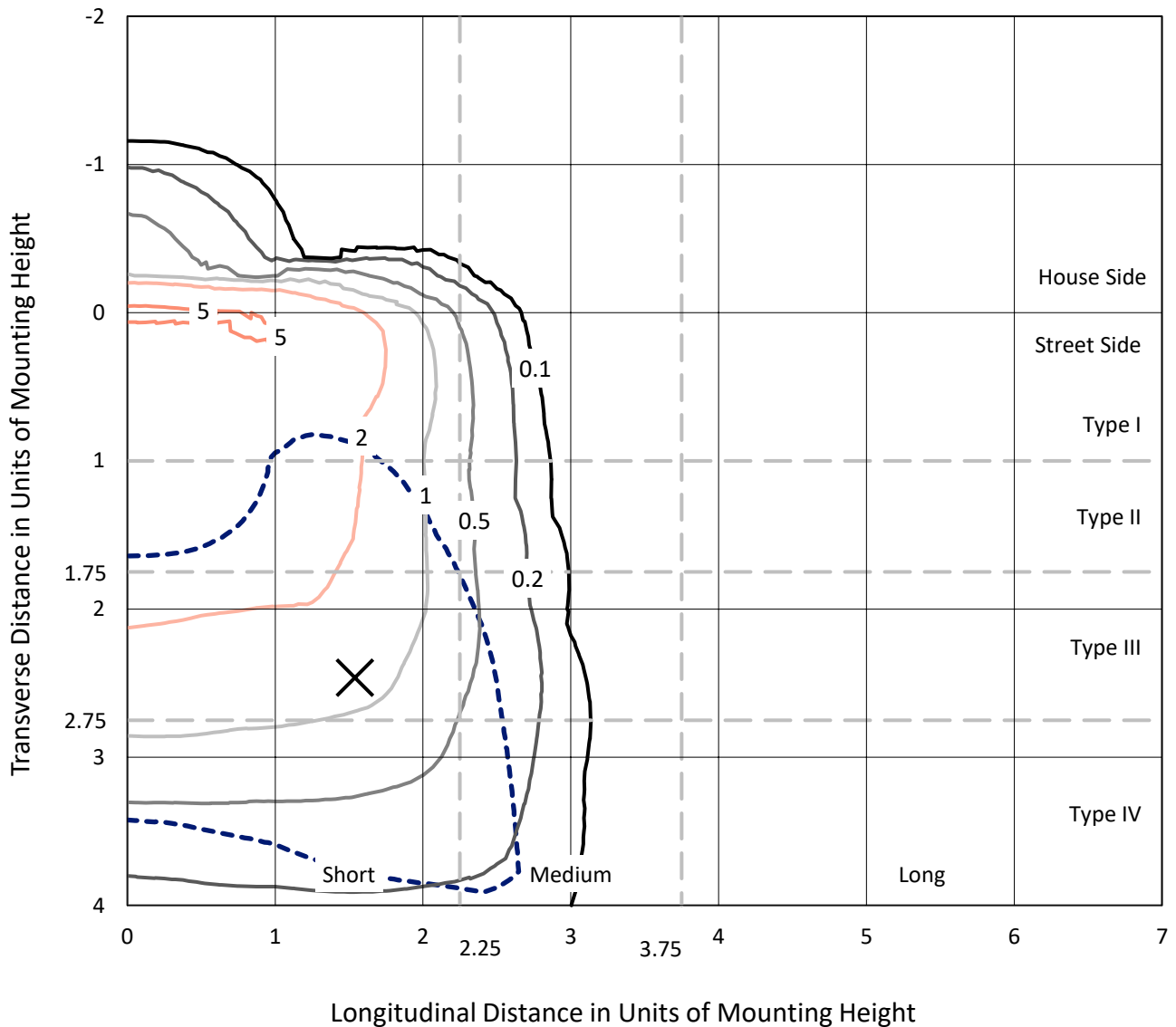
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

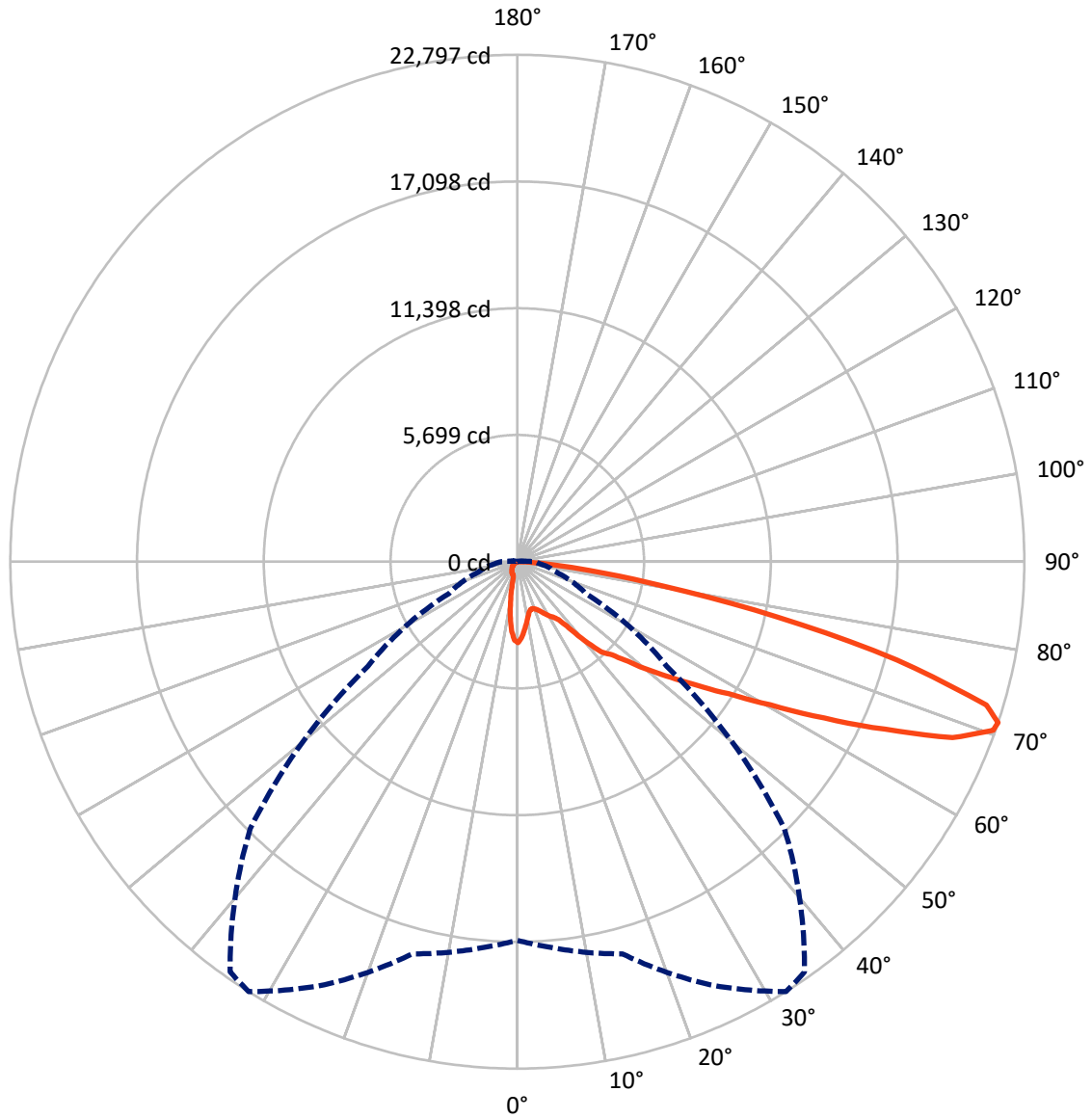
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1895.8	0.0	1895.8
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	20738.2	0.0	20738.2
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	22634.0	0.0	22634.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.0	1.3
10°-20°	642.4	2.8
20°-30°	999.3	4.4
30°-40°	1664.8	7.4
40°-50°	3096.9	13.7
50°-60°	4972.2	22.0
60°-70°	6687.8	29.5
70°-80°	3968.0	17.5
80°-90°	306.7	1.4
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°	22634.0	100.0
0°-180°	22634.0	100.0



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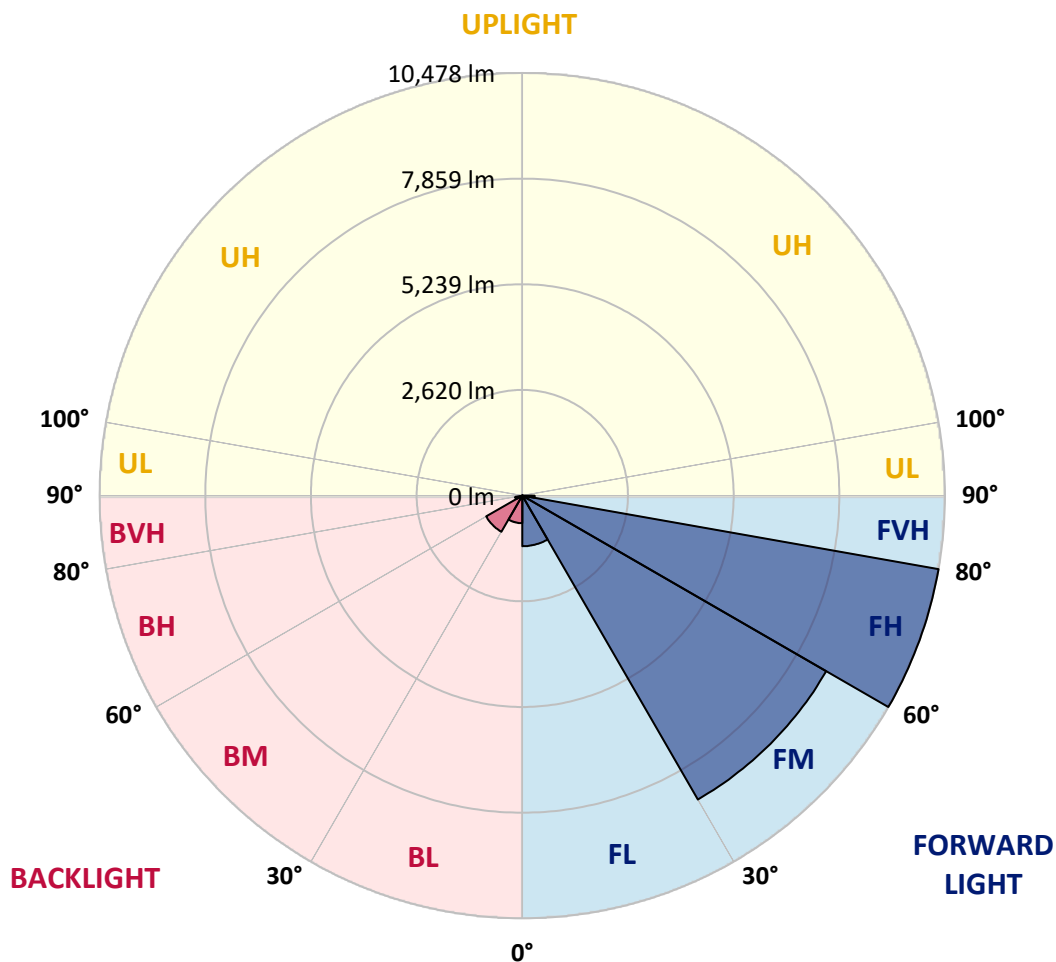
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1254.5	5.5			
FM	(30°-60°)	8699.7	38.4			
FH	(60°-80°)	10478.4	46.3			G4/12000
FVH	(80°-90°)	305.5	1.3			G3/500
BL	(0°-30°)	683.1	3.0	B2/1000		
BM	(30°-60°)	1034.2	4.6	B2/2500		
BH	(60°-80°)	177.3	0.8	B1/500		G1/500
BVH	(80°-90°)	1.2	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9
2.5°	3375.8	3410.6	3405.3	3417.5	3447.0	3459.2	3492.2	3528.7	3579.1	3613.8	3636.4
5°	3023.1	3049.2	3052.7	3113.5	3143.0	3176.0	3273.3	3379.3	3497.4	3591.3	3653.8
7.5°	2646.1	2660.0	2687.8	2767.7	2842.4	2875.4	3023.1	3207.3	3393.2	3568.7	3681.6
10°	2335.1	2350.7	2401.1	2486.3	2555.7	2599.2	2804.2	3035.3	3295.9	3556.5	3721.6
12.5°	2157.9	2166.6	2185.7	2262.1	2350.7	2397.6	2618.3	2882.4	3217.7	3561.7	3789.3
15°	2145.7	2142.2	2119.7	2150.9	2230.9	2279.5	2494.9	2778.1	3148.2	3579.1	3869.2
17.5°	2210.0	2201.3	2147.5	2147.5	2213.5	2253.4	2442.8	2722.5	3113.5	3619.1	3982.2
20°	2309.0	2295.1	2206.5	2199.6	2263.9	2305.6	2474.1	2726.0	3120.4	3693.8	4133.3
22.5°	2434.1	2418.5	2284.7	2288.2	2357.7	2399.4	2564.4	2788.6	3163.8	3785.8	4294.9
25°	2597.4	2580.1	2422.0	2415.0	2488.0	2524.5	2698.2	2899.8	3224.7	3900.5	4506.9
27.5°	2814.6	2778.1	2588.8	2578.3	2656.5	2703.4	2859.8	3049.2	3332.4	4058.6	4791.8
30°	2993.6	2953.6	2772.9	2745.1	2828.5	2865.0	3026.6	3250.7	3544.3	4334.9	5186.2
32.5°	3228.1	3169.1	2957.1	2884.1	2972.7	3019.6	3268.1	3626.0	3858.8	4626.8	5655.3
35°	3756.3	3719.8	3460.9	3205.5	3200.3	3259.4	3624.3	4004.8	4182.0	5082.0	6294.7
37.5°	4512.1	4486.0	4211.5	3869.2	3770.2	3742.4	4056.9	4421.7	4698.0	5707.4	7038.3
40°	5389.5	5328.7	5076.7	4786.6	4658.0	4576.4	4567.7	5042.0	5372.1	6557.0	7813.2
42.5°	6018.4	5907.2	5601.5	5580.6	5552.8	5467.7	5221.0	5948.9	6242.6	7470.9	8641.9
45°	6678.7	6510.1	6054.9	5976.7	5966.3	5961.1	6207.8	7022.7	7191.2	8461.2	9493.3
47.5°	7191.2	7057.4	6683.9	6649.1	6692.6	6810.7	7512.6	8162.4	8127.7	9343.9	10207.4
50°	7874.0	7773.2	7358.0	7424.0	7648.1	7841.0	8984.2	9404.7	8897.3	10038.8	10726.8
52.5°	8680.2	8494.3	8108.6	8287.5	8631.5	8952.9	10546.2	10492.3	9437.7	10561.8	11114.3
55°	9378.6	9246.6	9114.5	9300.4	9814.7	10216.0	11956.9	11307.1	9830.3	10982.2	11284.6
57.5°	10560.1	10528.8	10393.3	10582.6	11206.4	11623.4	13220.1	11939.6	10082.3	11201.2	11084.8
60°	12307.9	12257.5	12005.6	12247.1	13060.2	13715.2	14384.1	12507.7	10139.6	11116.0	10509.7
62.5°	14410.2	14238.2	14022.7	14378.9	15494.3	15782.7	15480.4	12844.8	9925.9	10438.4	9123.2
65°	16373.5	16196.3	16201.5	16952.0	18166.5	18362.8	16759.2	12794.4	9300.4	8741.0	6729.0
67.5°	17876.3	17846.8	18058.8	19523.4	21111.4	20975.9	17902.4	12040.3	7446.6	5665.7	3575.6
70°	17952.8	18010.1	18618.2	21090.6	22702.9	22487.5	17805.1	9786.9	4642.4	2606.1	1409.0
71°	17028.5	17414.2	18255.1	21041.9	22796.7	22517.0	16985.0	8197.2	3405.3	1817.3	1016.4
72.5°	14511.0	14714.2	16531.6	19803.1	22054.8	21457.2	14905.4	5745.7	2180.5	1112.0	583.8
75°	7992.1	8492.5	11070.9	15536.0	17640.1	17115.4	9713.9	2729.5	1087.6	608.1	241.5
77.5°	3805.0	3707.7	5401.6	9239.6	11960.4	11932.6	4894.3	1212.7	634.2	411.8	121.6
80°	1087.6	1223.1	2067.5	4392.2	6640.4	6713.4	1879.9	585.5	439.6	321.4	62.5
82.5°	328.4	335.3	759.3	1942.4	3302.8	3113.5	705.4	298.8	316.2	255.4	36.5
85°	57.3	71.2	224.1	684.5	1259.6	955.6	177.2	142.5	208.5	168.5	20.8
87.5°	3.5	5.2	74.7	78.2	111.2	64.3	31.3	20.8	45.2	45.2	12.2
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°	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9
2.5°	3652.1	3662.5	3655.5	3639.9	3613.8	3582.6	3540.9	3506.1	3476.6	3460.9	3480.1
5°	3674.6	3688.5	3653.8	3575.6	3457.5	3328.9	3183.0	3070.0	2981.4	2953.6	2943.2
7.5°	3709.4	3718.1	3624.3	3450.5	3200.3	2896.3	2630.5	2406.3	2232.6	2180.5	2104.0
10°	3754.6	3749.4	3572.1	3249.0	2809.4	2352.5	1940.7	1634.9	1403.8	1320.4	1313.5
12.5°	3824.1	3796.3	3506.1	2974.5	2343.8	1746.1	1237.0	967.7	821.8	773.2	762.7
15°	3910.9	3844.9	3401.9	2653.0	1794.8	1127.6	762.7	681.1	662.0	658.5	655.0
17.5°	4013.4	3909.2	3264.6	2258.6	1261.4	731.5	637.6	635.9	637.6	634.2	632.4
20°	4152.4	3977.0	3101.3	1791.3	834.0	616.8	608.1	608.1	609.8	608.1	608.1
22.5°	4300.1	4056.9	2899.8	1367.4	628.9	585.5	583.8	587.2	590.7	589.0	589.0
25°	4482.6	4161.1	2633.9	936.5	562.9	559.5	561.2	568.1	575.1	576.8	575.1
27.5°	4746.6	4289.7	2349.0	644.6	516.0	519.5	536.9	554.2	564.7	566.4	566.4
30°	5043.7	4432.2	1977.2	523.0	477.8	477.8	498.6	531.7	554.2	557.7	559.5
32.5°	5426.0	4597.2	1565.4	470.8	441.3	437.8	456.9	496.9	538.6	550.8	550.8
35°	5898.6	4791.8	1164.1	437.8	415.2	406.6	417.0	450.0	503.9	538.6	542.1
37.5°	6452.8	4976.0	851.3	408.3	390.9	378.8	385.7	411.8	455.2	507.3	521.2
40°	6965.3	5139.3	635.9	384.0	366.6	357.9	363.1	375.3	411.8	460.4	469.1
42.5°	7524.8	5266.1	505.6	357.9	342.3	338.8	338.8	344.0	368.3	396.1	397.9
45°	8082.5	5311.3	423.9	326.6	316.2	319.7	317.9	314.5	324.9	321.4	321.4
47.5°	8480.4	5257.4	351.0	297.1	297.1	302.3	293.6	281.5	276.3	255.4	257.1
50°	8753.1	5061.1	288.4	262.4	276.3	283.2	265.8	246.7	227.6	205.0	199.8
52.5°	8866.1	4711.9	236.3	217.2	245.0	253.7	232.8	210.2	180.7	161.6	156.4
55°	8793.1	4281.0	196.3	177.2	206.8	217.2	196.3	170.3	137.3	116.4	112.9
57.5°	8471.7	3766.7	166.8	140.7	165.1	172.0	158.1	130.3	97.3	76.4	76.4
60°	7915.7	3235.1	135.5	111.2	123.4	133.8	119.9	93.8	66.0	46.9	43.4
62.5°	6788.1	2627.0	109.5	86.9	86.9	95.6	83.4	67.8	41.7	24.3	22.6
65°	4901.3	1801.7	86.9	64.3	62.5	62.5	52.1	45.2	24.3	10.4	6.9
67.5°	2663.5	1016.4	69.5	48.6	43.4	41.7	33.0	26.1	10.4	1.7	0.0
70°	1047.7	390.9	53.9	33.0	27.8	26.1	17.4	12.2	6.9	0.0	0.0
71°	710.6	269.3	46.9	27.8	22.6	19.1	13.9	10.4	5.2	0.0	0.0
72.5°	406.6	166.8	36.5	20.8	17.4	13.9	10.4	6.9	5.2	0.0	0.0
75°	177.2	85.1	22.6	15.6	12.2	8.7	6.9	5.2	1.7	0.0	0.0
77.5°	90.3	46.9	15.6	12.2	6.9	5.2	3.5	1.7	0.0	0.0	0.0
80°	50.4	24.3	10.4	6.9	5.2	3.5	1.7	1.7	0.0	0.0	0.0
82.5°	27.8	13.9	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.4	8.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	3.5	0.0	0.0	0.0	0.0	1.7	1.7	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)