

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: P454387

Luminaire Tested: **GALN-SA5C-727-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454387  
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-727-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 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: 21618 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

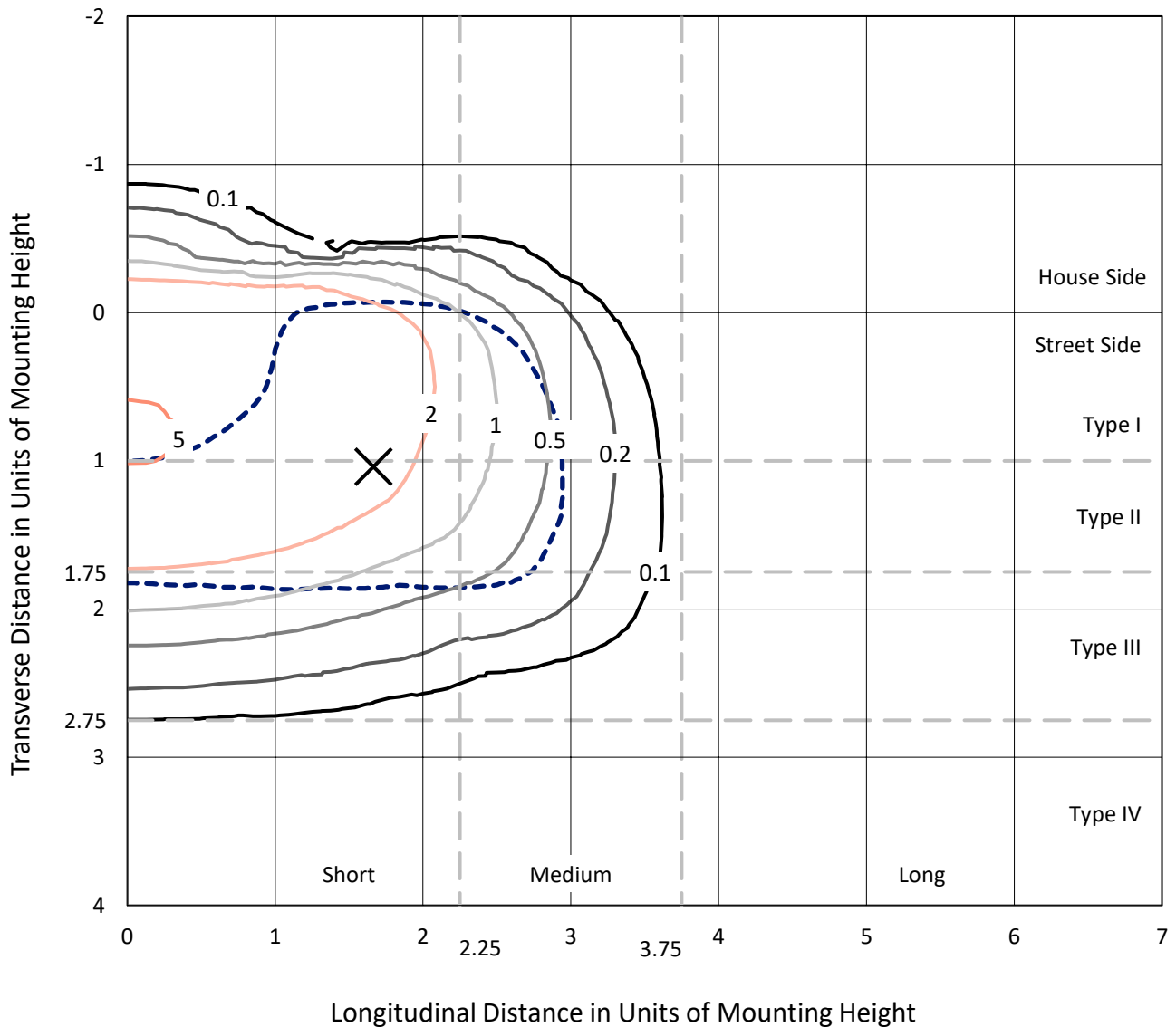
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

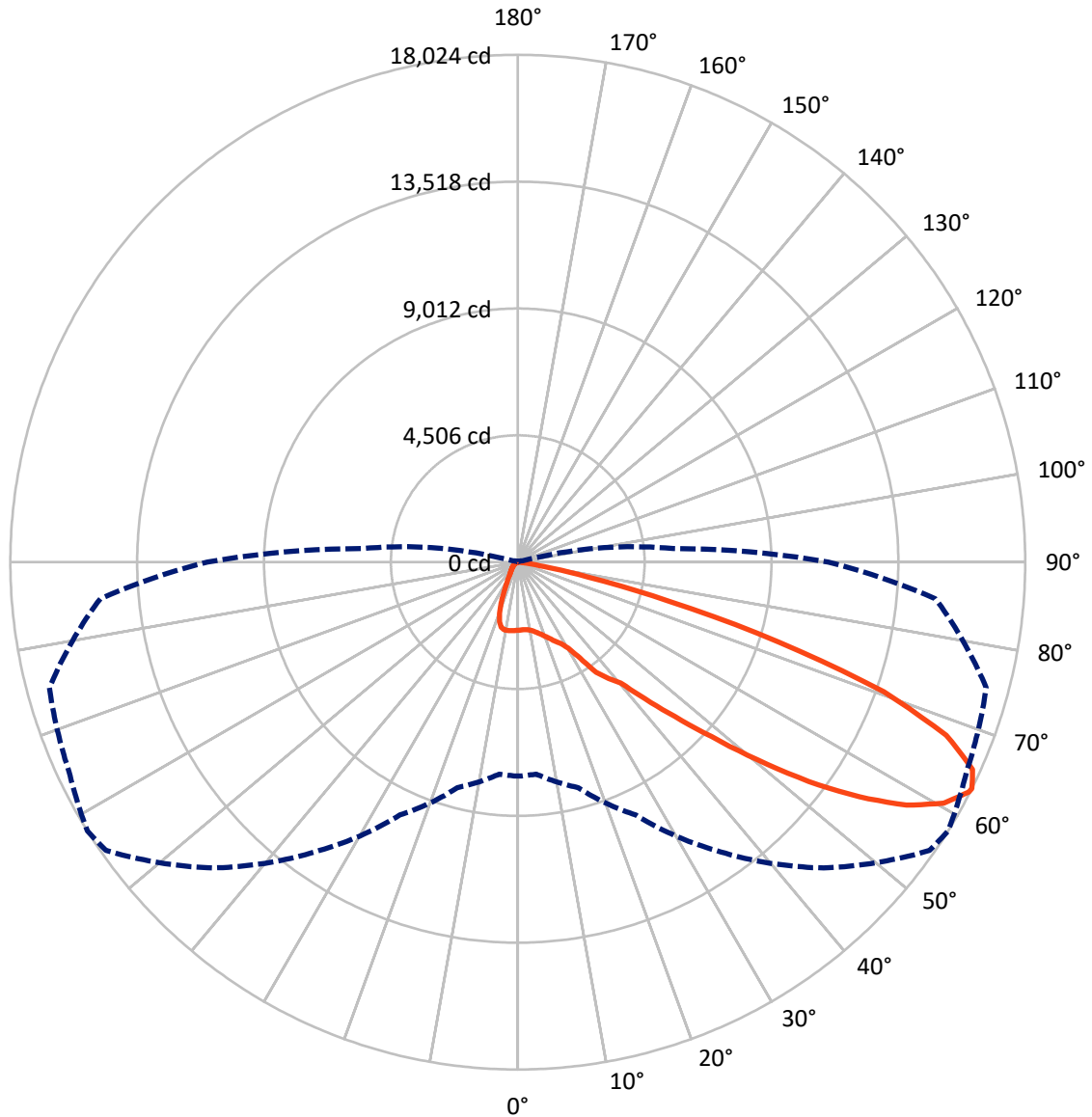
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2238.4	0.0	2238.4
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	19379.6	0.0	19379.6
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	21618.0	0.0	21618.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.6	1.0
10°-20°	617.1	2.9
20°-30°	1071.0	5.0
30°-40°	1968.0	9.1
40°-50°	3704.8	17.1
50°-60°	6336.8	29.3
60°-70°	6067.5	28.1
70°-80°	1547.2	7.2
80°-90°	79.1	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°	21618.0	100.0
0°-180°	21618.0	100.0

**Coefficient of Utilization**



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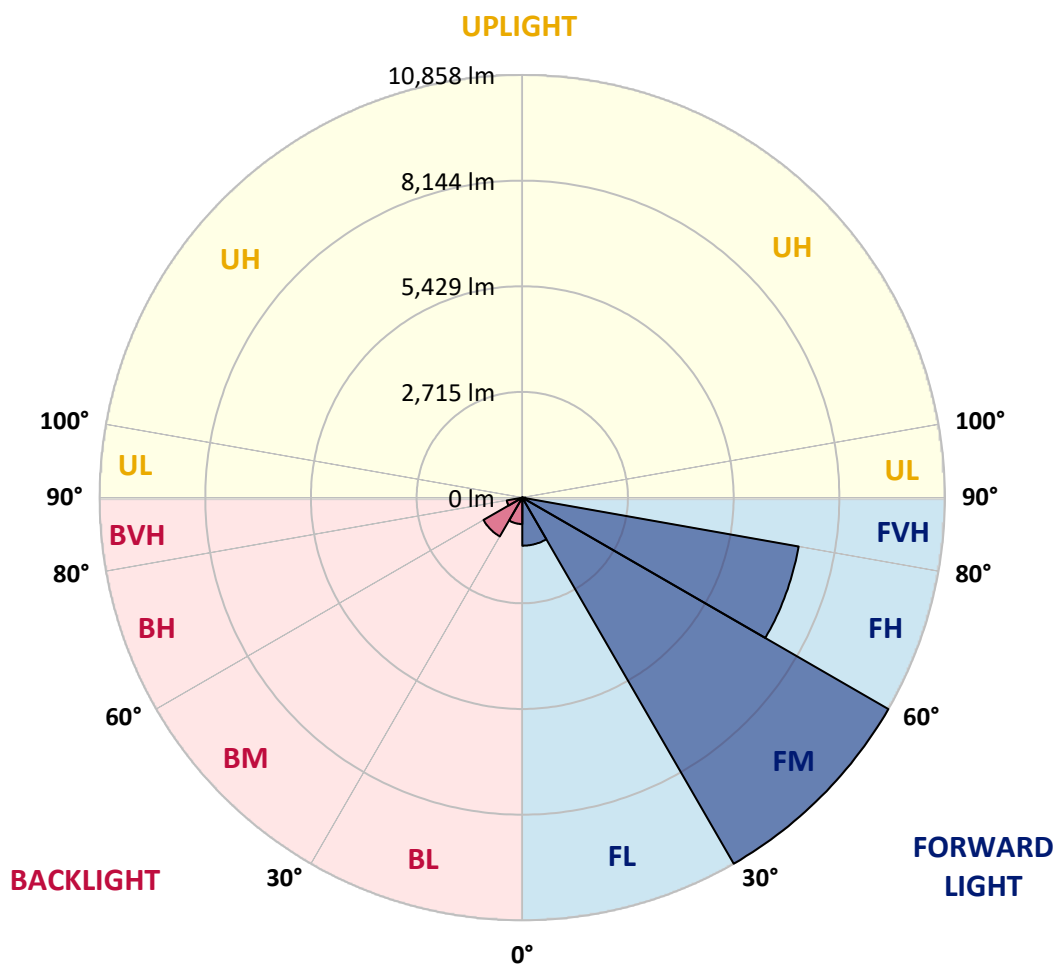
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1235.8	5.7			
FM	(30°-60°)	10858.3	50.2			
FH	(60°-80°)	7209.5	33.3			G3/7500
FVH	(80°-90°)	76.0	0.4			G1/100
BL	(0°-30°)	678.8	3.1	B2/1000		
BM	(30°-60°)	1151.3	5.3	B2/2500		
BH	(60°-80°)	405.2	1.9	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2
2.5°	2360.0	2368.1	2376.3	2379.5	2390.9	2402.3	2410.5	2408.8	2421.8	2428.4	2428.4
5°	2265.6	2265.6	2286.8	2306.3	2338.8	2371.4	2402.3	2408.8	2433.2	2456.0	2464.2
7.5°	2185.8	2190.7	2207.0	2242.8	2286.8	2343.7	2405.6	2420.2	2462.5	2513.0	2534.1
10°	2148.4	2151.7	2172.8	2210.3	2265.6	2343.7	2430.0	2457.7	2522.8	2602.5	2631.8
12.5°	2140.3	2145.2	2166.3	2208.6	2272.1	2366.5	2483.7	2513.0	2607.4	2709.9	2753.9
15°	2154.9	2158.2	2179.3	2224.9	2294.9	2407.2	2555.3	2596.0	2708.3	2827.1	2884.1
17.5°	2207.0	2203.7	2218.4	2255.8	2334.0	2457.7	2641.6	2690.4	2822.2	2985.0	3022.4
20°	2428.4	2407.2	2394.2	2361.6	2392.5	2529.3	2745.7	2817.3	2980.1	3146.1	3172.2
22.5°	2905.2	2858.0	2765.3	2638.3	2540.7	2626.9	2871.1	2954.1	3164.0	3326.8	3326.8
25°	3512.3	3452.1	3359.3	3082.6	2843.4	2788.1	3012.7	3116.8	3364.2	3528.6	3474.9
27.5°	4272.4	4225.2	4044.5	3722.3	3356.1	3069.6	3177.0	3273.1	3541.6	3740.2	3627.9
30°	4890.9	4868.1	4720.0	4431.9	4028.3	3610.0	3483.0	3546.5	3777.6	4007.1	3891.6
32.5°	5413.3	5413.3	5262.0	4993.4	4615.8	4244.7	4002.2	4047.8	4269.2	4534.5	4319.6
35°	5987.9	5968.4	5846.3	5590.8	5167.6	4840.4	4741.2	4803.0	5003.2	5200.1	4671.2
37.5°	6591.7	6585.2	6458.3	6210.9	5865.8	5454.0	5221.3	5237.6	5340.1	5460.5	5082.9
40°	7247.6	7257.4	7091.4	6938.4	6612.9	6191.3	5745.4	5642.8	5738.9	6079.0	5843.0
42.5°	8022.4	7999.6	7928.0	7719.6	7457.6	7205.3	6669.8	6632.4	6717.0	7081.6	6826.1
45°	8922.4	8955.0	8831.3	8715.7	8539.9	8330.0	7882.4	7817.3	7910.1	8476.5	8113.5
47.5°	9824.1	9793.2	9872.9	9851.8	9946.2	9789.9	9394.4	9261.0	9483.9	10021.0	9487.2
50°	10510.9	10545.1	10711.1	10953.6	11358.9	11446.8	11067.6	11022.0	11121.3	11466.3	10716.0
52.5°	10956.9	11070.8	11331.2	11954.6	12685.4	13253.4	12965.3	12940.9	12900.2	12993.0	11891.1
55°	11248.2	11363.8	11704.0	12621.9	13880.0	14802.9	14817.5	14713.4	14444.8	14378.1	12989.8
57.5°	11069.2	11092.0	11577.0	12804.2	14542.5	15908.0	16386.5	16282.4	15785.9	15533.7	13959.8
60°	9949.4	9996.6	10672.1	12114.1	14254.4	16269.3	17426.6	17379.4	16835.7	16550.9	14715.0
62.5°	7965.4	8102.1	8797.1	10405.2	12914.9	15660.6	17848.1	17981.6	17558.4	17166.1	14952.6
63°	7600.8	7556.9	8290.9	9907.1	12560.1	15359.5	17854.6	18023.9	17590.9	17224.7	14887.5
65°	5626.6	5758.4	6235.3	7812.4	10452.4	13958.2	17452.6	17752.1	17470.5	16965.9	14166.5
67.5°	3159.1	3152.6	3680.0	5112.2	7316.0	10948.8	15781.1	16414.2	16355.6	15224.4	11743.0
70°	1546.2	1570.6	1787.1	2649.7	4243.1	7553.6	13113.5	13797.0	13818.2	11957.9	8120.0
72.5°	699.9	711.3	865.9	1290.7	2181.0	4021.8	9036.4	9689.0	9568.6	7620.4	4484.0
75°	369.5	393.9	476.9	649.4	1051.4	1658.5	4915.3	5546.8	5294.5	3481.4	1650.4
77.5°	273.4	281.6	323.9	413.4	563.1	646.2	2120.7	2522.8	2363.3	1259.8	546.9
80°	200.2	206.7	240.9	293.0	354.8	328.8	799.1	916.3	821.9	428.1	167.6
82.5°	122.1	123.7	175.8	218.1	223.0	183.9	263.7	283.2	296.2	240.9	91.1
85°	43.9	55.3	118.8	157.9	131.8	92.8	110.7	122.1	133.5	153.0	53.7
87.5°	4.9	6.5	57.0	76.5	37.4	34.2	40.7	45.6	48.8	57.0	26.0
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°	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2
2.5°	2434.9	2441.4	2436.5	2428.4	2426.7	2421.8	2412.1	2412.1	2412.1	2415.3	2412.1
5°	2470.7	2475.6	2464.2	2447.9	2430.0	2407.2	2382.8	2368.1	2366.5	2363.3	2355.1
7.5°	2539.0	2545.5	2519.5	2480.4	2431.6	2376.3	2324.2	2275.4	2252.6	2234.7	2234.7
10°	2638.3	2644.8	2592.7	2522.8	2425.1	2312.8	2189.1	2076.8	1988.9	1948.2	1938.5
12.5°	2757.1	2760.4	2674.1	2552.1	2390.9	2174.5	1910.8	1665.0	1494.1	1416.0	1407.9
15°	2887.3	2864.5	2750.6	2563.4	2293.3	1889.6	1433.9	1132.8	955.4	903.3	922.8
17.5°	3019.2	2976.9	2809.2	2545.5	2073.5	1433.9	963.5	773.1	717.8	703.1	703.1
20°	3142.9	3084.3	2851.5	2467.4	1692.7	987.9	714.5	668.9	659.2	649.4	651.0
22.5°	3266.6	3177.0	2889.0	2293.3	1261.4	706.4	639.6	625.0	612.0	599.0	597.3
25°	3387.0	3263.3	2903.6	1971.0	859.4	607.1	584.3	564.8	538.7	524.1	520.8
27.5°	3512.3	3367.5	2893.8	1564.1	626.6	543.6	520.8	493.2	462.2	436.2	436.2
30°	3753.2	3566.0	2859.7	1124.7	527.3	478.5	449.2	405.3	371.1	345.0	343.4
32.5°	4082.0	3824.8	2742.5	791.0	468.7	421.5	377.6	328.8	293.0	273.4	273.4
35°	4374.9	4085.2	2522.8	582.7	421.5	366.2	312.5	265.3	237.6	224.6	219.7
37.5°	4820.9	4466.1	2220.0	473.6	376.0	317.4	262.0	218.1	195.3	185.5	185.5
40°	5489.8	4931.6	1848.9	415.0	332.0	270.2	218.1	183.9	166.0	154.6	154.6
42.5°	6319.9	5501.2	1473.0	372.7	291.3	232.7	182.3	156.2	140.0	131.8	130.2
45°	7364.8	6101.8	1134.4	333.7	258.8	198.6	154.6	131.8	115.6	110.7	112.3
47.5°	8455.3	6630.8	878.9	299.5	224.6	167.6	131.8	113.9	102.5	96.0	96.0
50°	9386.3	6995.4	667.3	260.4	198.6	141.6	115.6	102.5	92.8	89.5	87.9
52.5°	10164.3	7101.2	511.1	226.2	174.2	122.1	102.5	92.8	84.6	79.8	79.8
55°	10826.7	7008.4	400.4	190.4	146.5	105.8	91.1	83.0	73.2	68.4	66.7
57.5°	11214.1	6710.5	306.0	157.9	118.8	87.9	79.8	70.0	58.6	50.5	50.5
60°	11409.4	6277.6	234.4	130.2	91.1	70.0	65.1	52.1	40.7	34.2	32.6
62.5°	11175.0	5703.1	177.4	102.5	68.4	52.1	43.9	37.4	26.0	19.5	19.5
63°	11030.1	5537.0	170.9	97.7	63.5	48.8	40.7	34.2	22.8	17.9	16.3
65°	10055.2	4812.8	140.0	78.1	50.5	34.2	27.7	24.4	16.3	8.1	6.5
67.5°	7984.9	3681.6	110.7	58.6	35.8	24.4	16.3	14.6	4.9	0.0	0.0
70°	5398.7	2377.9	86.3	42.3	24.4	14.6	8.1	6.5	1.6	0.0	0.0
72.5°	2815.7	1219.1	66.7	30.9	14.6	9.8	4.9	1.6	0.0	0.0	0.0
75°	996.1	415.0	48.8	19.5	9.8	4.9	1.6	0.0	0.0	0.0	0.0
77.5°	301.1	154.6	30.9	14.6	6.5	3.3	0.0	0.0	0.0	0.0	0.0
80°	105.8	57.0	17.9	9.8	4.9	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	52.1	27.7	11.4	8.1	4.9	1.6	0.0	0.0	0.0	0.0	0.0
85°	29.3	17.9	9.8	8.1	4.9	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	21.2	13.0	9.8	8.1	6.5	3.3	1.6	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)