

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P638278

Luminaire Tested: GWS-SA4E-740-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638278  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-740-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

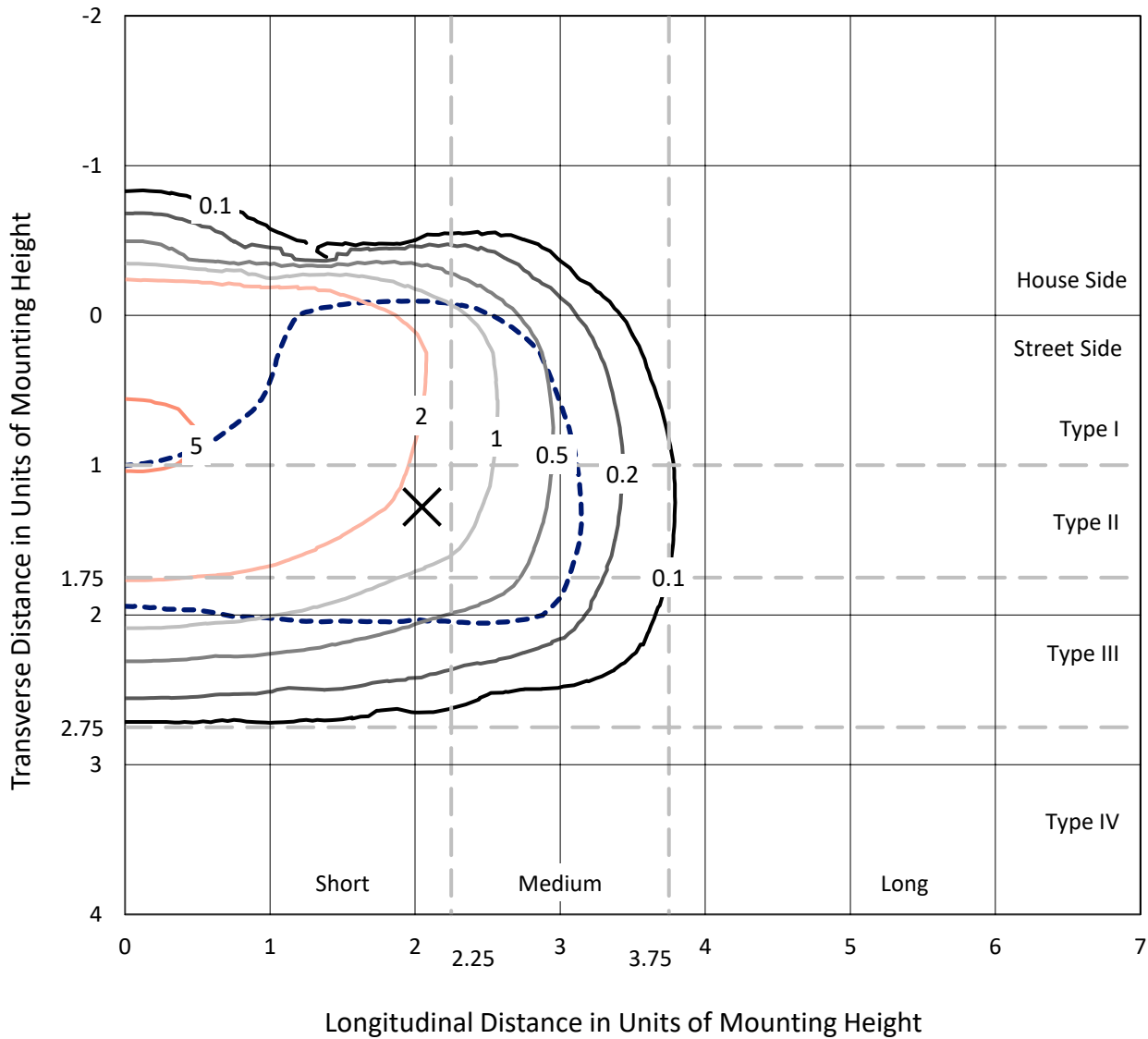
Lumens per Lamp: N/A  
Luminaire Lumens: 22466.8 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

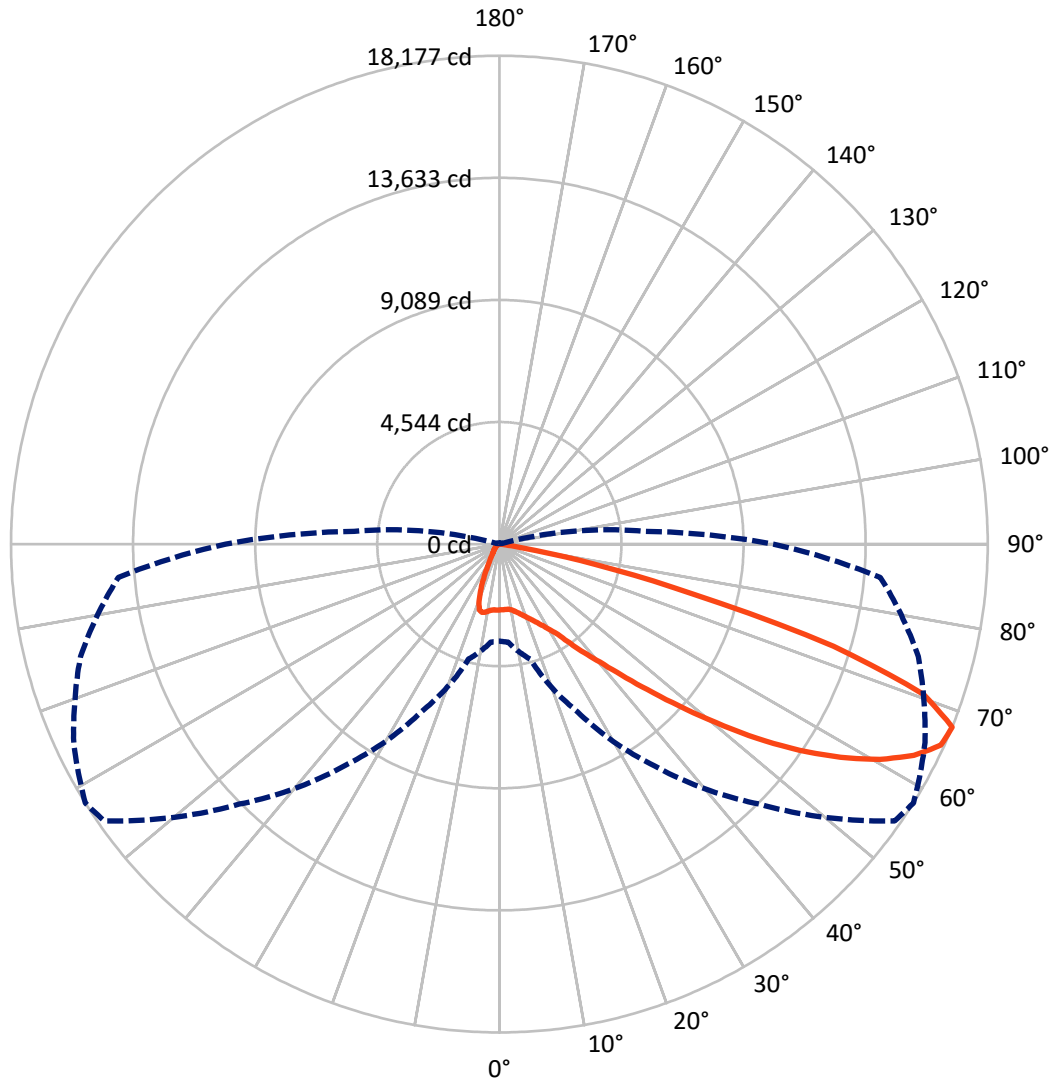
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2451.1	0.0	2451.1
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	20015.7	0.0	20015.7
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	22466.8	0.0	22466.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.0	1.0
10°-20°	645.7	2.9
20°-30°	1127.1	5.0
30°-40°	2012.9	9.0
40°-50°	3679.2	16.4
50°-60°	6118.9	27.2
60°-70°	6646.1	29.6
70°-80°	1951.4	8.7
80°-90°	55.6	0.2
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°	22466.8	100.0
0°-180°	22466.8	100.0

**Coefficient of Utilization**



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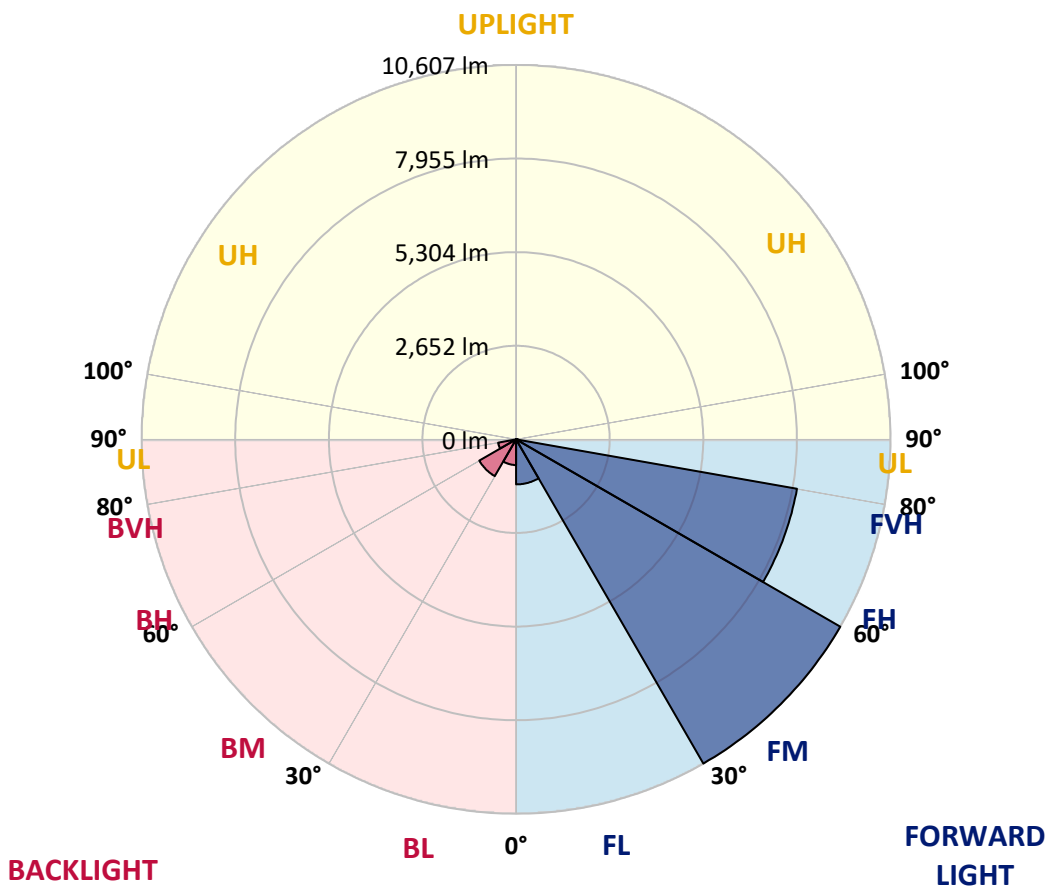
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1275.8	5.7			
FM (30°-60°)	10607.0	47.2			
FH (60°-80°)	8080.1	36.0			G4/12000
FVH (80°-90°)	52.8	0.2			G1/100
BL (0°-30°)	727.1	3.2	B2/1000		
BM (30°-60°)	1203.9	5.4	B2/2500		
BH (60°-80°)	517.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.7	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°	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2
2.5°	2402.1	2397.8	2397.8	2415.3	2417.5	2426.3	2446.0	2448.2	2459.2	2454.8	2439.4
5°	2277.1	2279.3	2292.5	2323.2	2349.5	2382.4	2430.7	2441.6	2465.8	2478.9	2470.1
7.5°	2160.8	2163.0	2182.8	2231.0	2281.5	2347.3	2426.3	2448.2	2496.5	2531.6	2533.8
10°	2117.0	2114.8	2134.5	2189.3	2255.2	2347.3	2461.4	2489.9	2562.3	2623.7	2634.7
12.5°	2130.1	2127.9	2147.7	2198.1	2270.5	2386.8	2522.8	2562.3	2654.4	2748.8	2768.5
15°	2182.8	2180.6	2193.7	2235.4	2314.4	2435.0	2601.8	2661.0	2777.3	2891.3	2922.1
17.5°	2340.7	2329.7	2316.6	2321.0	2367.0	2492.1	2702.7	2775.1	2919.9	3055.9	3082.2
20°	2621.5	2593.0	2557.9	2511.8	2489.9	2575.4	2819.0	2902.3	3077.8	3233.6	3238.0
22.5°	3044.9	3033.9	2952.8	2819.0	2724.6	2726.8	2955.0	3051.5	3266.5	3437.6	3413.5
25°	3635.0	3628.4	3503.4	3284.0	3038.3	2955.0	3128.3	3227.0	3490.2	3672.3	3595.5
27.5°	4367.7	4321.7	4174.7	3878.5	3512.2	3251.1	3347.6	3435.4	3727.2	3898.3	3753.5
30°	5006.1	5008.3	4870.1	4560.8	4148.4	3696.4	3615.3	3692.1	3944.3	4124.2	3948.7
32.5°	5620.4	5640.1	5488.7	5210.1	4758.2	4277.8	3999.2	4012.3	4222.9	4418.2	4205.4
35°	6190.7	6206.1	6100.8	5863.9	5442.7	4885.5	4534.5	4527.9	4641.9	4841.6	4563.0
37.5°	6829.1	6844.5	6741.4	6528.6	6133.7	5580.9	5142.1	5133.3	5179.4	5341.7	5023.7
40°	7509.2	7537.7	7423.6	7243.7	6866.4	6399.1	5848.5	5769.5	5723.5	5914.3	5620.4
42.5°	8198.0	8241.9	8202.4	8022.5	7700.0	7313.9	6765.5	6642.6	6543.9	6783.0	6471.5
45°	9053.6	9106.2	9088.7	8950.4	8700.4	8386.7	7868.9	7726.3	7680.3	7901.8	7531.1
47.5°	9876.2	9933.2	9996.9	9966.1	9788.5	9643.7	9068.9	8987.7	8974.6	9211.5	8636.7
50°	10488.3	10540.9	10784.4	10959.9	11080.6	11049.9	10551.9	10431.2	10411.5	10562.8	9803.8
52.5°	10927.0	10977.5	11313.1	11861.5	12304.7	12546.0	12043.6	12017.3	11909.8	11857.1	10896.3
55°	11267.0	11337.2	11690.4	12519.7	13412.5	13947.8	13634.1	13539.7	13263.3	12960.6	11909.8
57.5°	11335.0	11363.6	11861.5	12980.3	14272.4	15139.0	15139.0	14974.4	14441.4	14022.4	13081.3
60°	10725.2	10812.9	11486.4	12943.0	14641.0	15917.8	16387.2	16273.1	15553.6	15038.1	14208.8
62.5°	9371.6	9470.4	10290.8	12050.2	14272.4	16077.9	17332.7	17315.2	16503.5	15878.3	15143.4
65°	7186.7	7259.1	7974.2	10080.2	12714.9	15461.5	18008.4	18056.6	17253.7	16433.3	15465.8
67.5°	3610.9	3661.3	4433.5	6886.1	10078.0	13686.7	17962.3	18177.3	17481.9	16139.3	14235.2
70°	1261.4	1311.9	1676.0	2955.0	6133.7	10451.0	16409.1	16760.1	16141.5	13776.7	10501.4
72.5°	432.2	456.3	695.4	1096.9	2386.8	6195.1	12478.0	13006.7	11898.8	9248.8	6035.0
75°	245.7	261.1	372.9	594.5	1000.3	2038.0	7079.2	7403.9	6936.6	5041.2	2483.3
77.5°	166.7	179.9	232.5	337.8	552.8	655.9	2887.0	3635.0	3169.9	1645.3	634.0
80°	98.7	107.5	142.6	199.6	283.0	254.5	618.6	822.7	1059.6	491.4	190.9
82.5°	46.1	52.6	92.1	131.6	142.6	107.5	182.1	221.6	298.3	241.3	79.0
85°	0.0	0.0	30.7	54.8	52.6	30.7	50.5	54.8	81.2	120.7	30.7
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	4.4	6.6	13.2	24.1	13.2
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°	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2	2448.2
2.5°	2457.0	2441.6	2459.2	2450.4	2459.2	2457.0	2439.4	2428.5	2428.5	2408.7	2402.1
5°	2487.7	2472.3	2476.7	2457.0	2452.6	2441.6	2419.7	2410.9	2410.9	2391.2	2384.6
7.5°	2555.7	2531.6	2527.2	2487.7	2470.1	2439.4	2399.9	2384.6	2382.4	2362.7	2356.1
10°	2663.2	2634.7	2614.9	2564.5	2514.0	2452.6	2369.2	2299.0	2259.5	2206.9	2202.5
12.5°	2794.8	2759.7	2729.0	2652.2	2568.9	2430.7	2185.0	1928.3	1770.3	1645.3	1654.1
15°	2941.8	2908.9	2860.6	2744.4	2573.3	2213.5	1700.1	1305.3	1112.2	1009.1	1004.7
17.5°	3101.9	3053.7	2974.7	2816.8	2435.0	1691.4	1105.6	781.0	680.1	645.0	636.2
20°	3251.1	3191.9	3093.2	2832.1	2035.8	1145.1	691.0	605.5	587.9	577.0	577.0
22.5°	3409.1	3334.5	3187.5	2713.7	1513.7	732.7	587.9	568.2	555.0	539.7	537.5
25°	3569.2	3472.7	3273.1	2404.3	991.6	577.0	550.6	528.7	504.6	480.4	473.8
27.5°	3705.2	3580.2	3338.9	1943.7	636.2	519.9	502.4	465.1	432.2	405.8	401.5
30°	3867.6	3707.4	3367.4	1421.5	500.2	458.5	432.2	392.7	353.2	326.9	318.1
32.5°	4084.7	3909.2	3323.5	925.8	443.1	403.6	362.0	315.9	276.4	247.9	243.5
35°	4422.6	4214.2	3121.7	590.1	401.5	348.8	298.3	250.1	217.2	195.2	190.9
37.5°	4835.0	4641.9	2790.4	443.1	359.8	302.7	243.5	197.4	173.3	157.9	153.6
40°	5447.0	5177.2	2380.2	388.3	318.1	256.7	199.6	162.3	144.8	131.6	127.2
42.5°	6241.2	5809.0	1908.6	353.2	278.6	215.0	162.3	133.8	118.5	109.7	107.5
45°	7169.1	6425.5	1410.6	318.1	241.3	177.7	133.8	109.7	98.7	92.1	89.9
47.5°	8119.0	6965.1	974.0	280.8	206.2	147.0	111.9	94.3	85.6	76.8	74.6
50°	9132.5	7421.4	664.7	243.5	175.5	120.7	96.5	85.6	74.6	68.0	65.8
52.5°	9876.2	7590.3	462.9	210.6	149.2	103.1	85.6	76.8	68.0	59.2	57.0
55°	10562.8	7585.9	351.0	177.7	127.2	89.9	76.8	68.0	59.2	52.6	50.5
57.5°	11247.3	7526.7	276.4	151.4	109.7	81.2	68.0	59.2	54.8	46.1	43.9
60°	11690.4	7302.9	215.0	127.2	94.3	70.2	59.2	52.6	46.1	39.5	37.3
62.5°	11925.2	6991.4	164.5	100.9	76.8	61.4	52.6	46.1	39.5	32.9	30.7
65°	11607.1	6438.6	129.4	79.0	59.2	52.6	43.9	37.3	30.7	24.1	21.9
67.5°	10196.5	5429.5	100.9	63.6	46.1	39.5	37.3	30.7	21.9	17.5	15.4
70°	7206.4	3718.4	79.0	48.3	35.1	30.7	28.5	24.1	17.5	13.2	11.0
72.5°	3955.3	1875.6	57.0	35.1	26.3	24.1	21.9	19.7	15.4	11.0	11.0
75°	1522.5	515.5	41.7	24.1	17.5	17.5	15.4	15.4	13.2	8.8	8.8
77.5°	397.1	153.6	26.3	15.4	11.0	11.0	11.0	8.8	8.8	6.6	6.6
80°	127.2	50.5	15.4	11.0	8.8	6.6	6.6	4.4	6.6	4.4	4.4
82.5°	41.7	17.5	8.8	8.8	6.6	4.4	4.4	2.2	2.2	0.0	0.0
85°	15.4	8.8	6.6	4.4	4.4	4.4	2.2	0.0	0.0	0.0	0.0
87.5°	8.8	4.4	4.4	4.4	4.4	2.2	0.0	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)