

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: STREETWORKS

Report Number: P484435

Luminaire Tested: **IFLD-S-SA3A-750-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484435  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-750-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

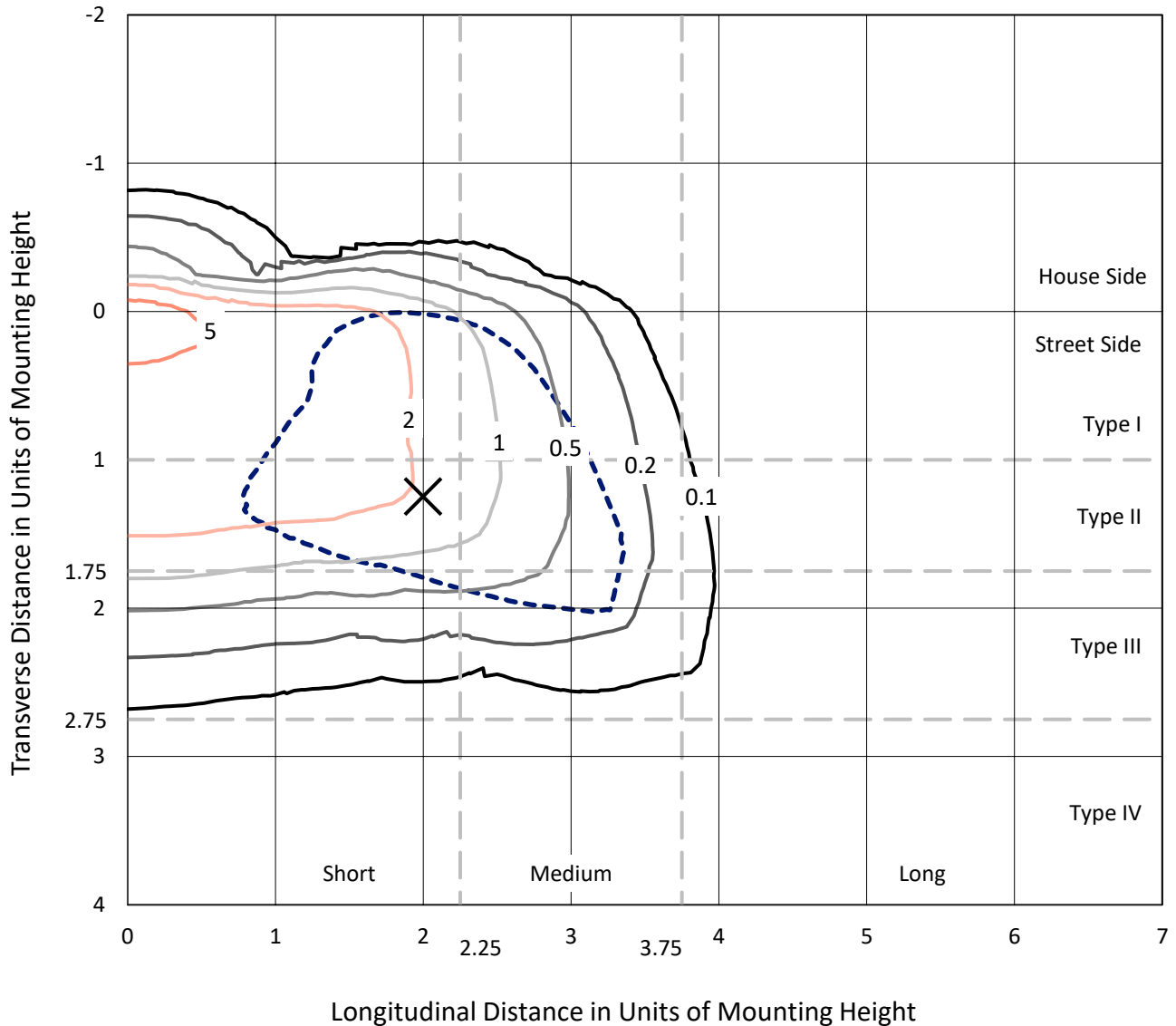
Lumens per Lamp: N/A  
Luminaire Lumens: 11769.7 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8  
Input Voltage (V): 120  
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

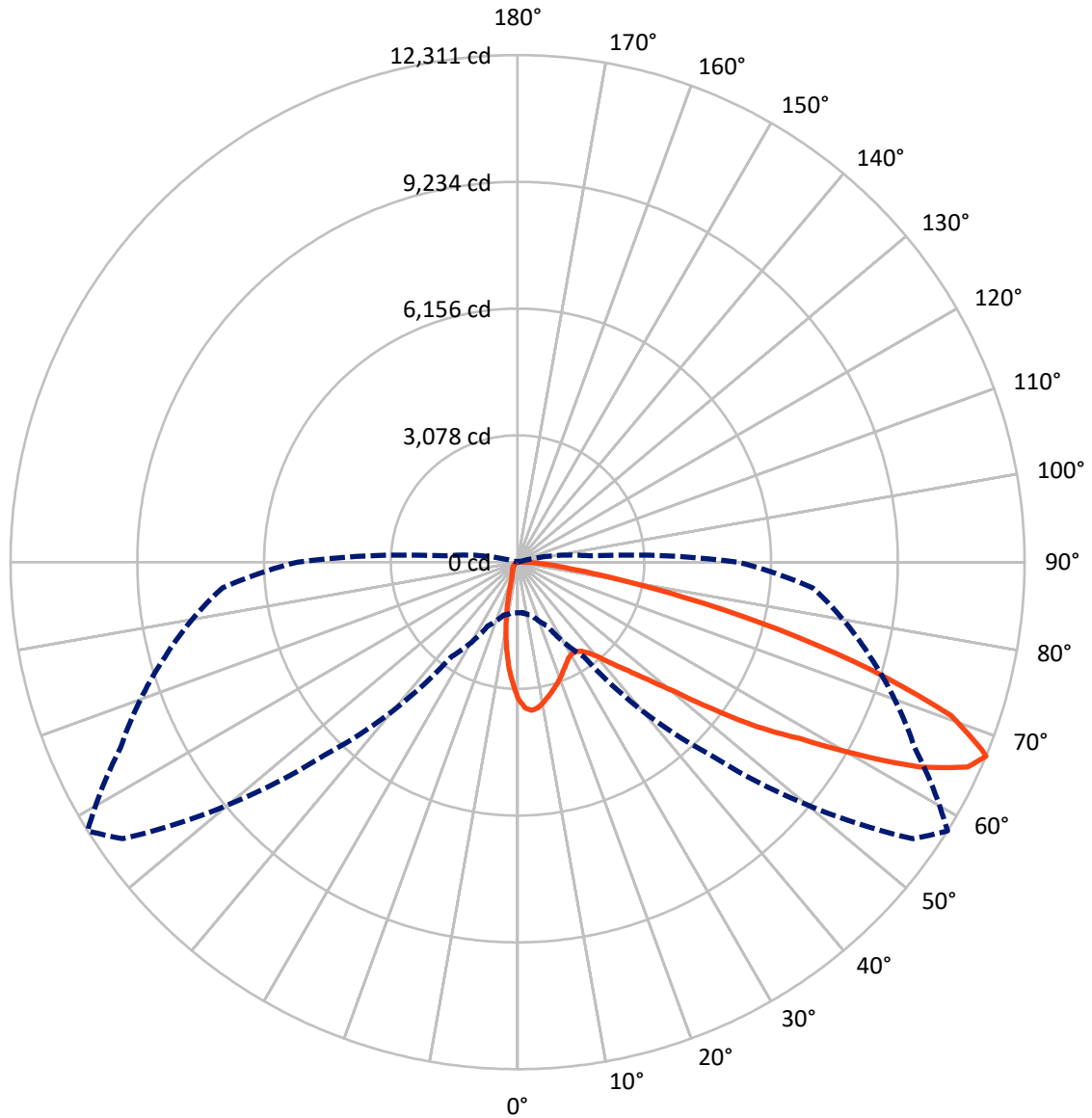
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	972.9	0.0	972.9
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	10796.8	0.0	10796.8
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	11769.7	0.0	11769.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.6	2.2
10°-20°	548.8	4.7
20°-30°	728.1	6.2
30°-40°	1008.9	8.6
40°-50°	1646.3	14.0
50°-60°	2893.7	24.6
60°-70°	3205.0	27.2
70°-80°	1328.1	11.3
80°-90°	146.2	1.2
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°	11769.7	100.0
0°-180°	11769.7	100.0



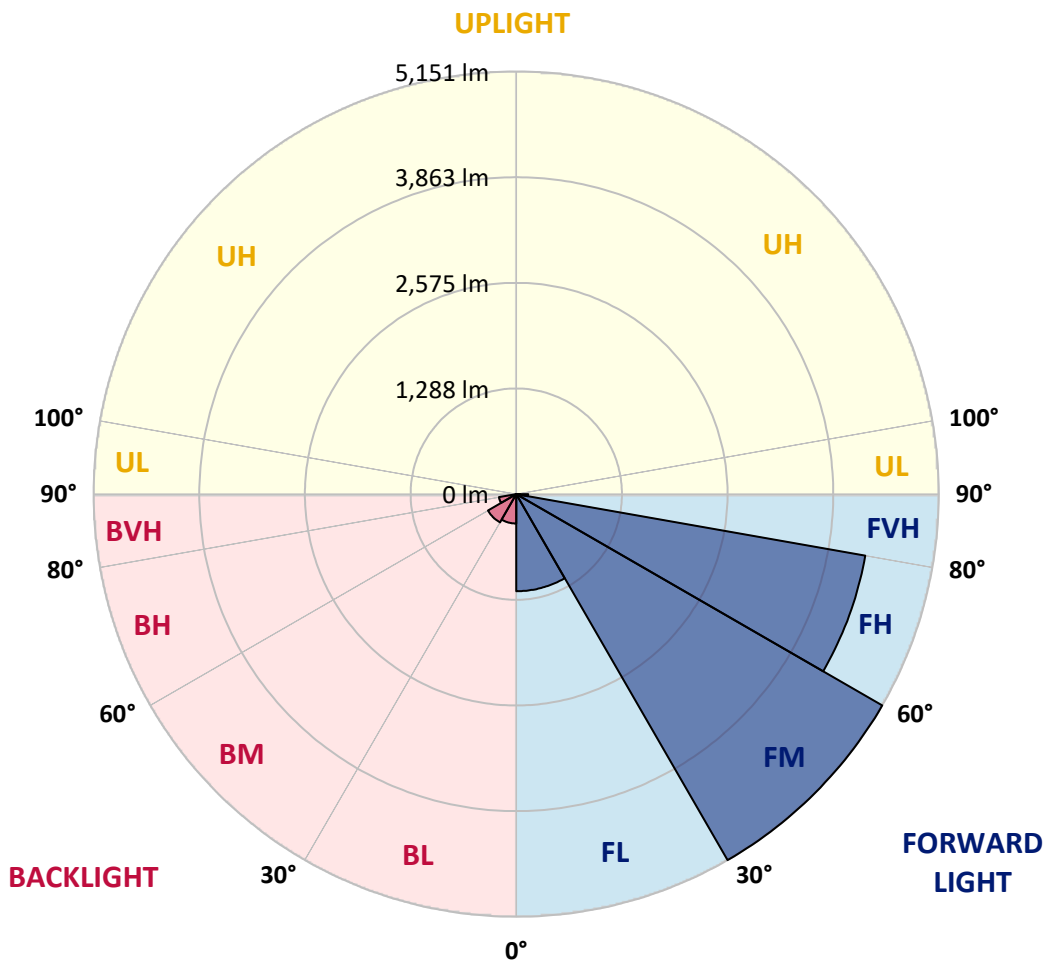
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1183.2	10.1			
FM (30°-60°)	5150.7	43.8			
FH (60°-80°)	4319.2	36.7			G2/5000
FVH (80°-90°)	143.8	1.2			G2/225
BL (0°-30°)	358.3	3.0	B1/500		
BM (30°-60°)	398.2	3.4	B1/1000		
BH (60°-80°)	213.9	1.8	B1/500		G1/500
BVH (80°-90°)	2.4	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5
2.5°	3628.3	3640.8	3651.7	3631.4	3648.6	3623.6	3559.5	3545.5	3534.5	3439.2	3384.5
5°	3626.7	3612.6	3623.6	3633.0	3609.5	3628.3	3612.6	3614.2	3572.0	3486.1	3332.9
7.5°	3384.5	3378.3	3384.5	3429.8	3481.4	3522.0	3545.5	3568.9	3540.8	3412.6	3264.2
10°	3057.9	3089.2	3106.4	3187.6	3267.3	3342.3	3415.8	3459.5	3451.7	3400.1	3189.2
12.5°	2829.8	2820.4	2882.9	2936.1	3015.7	3167.3	3295.4	3336.1	3383.0	3311.1	3090.8
15°	2618.9	2593.9	2631.4	2723.5	2859.5	2979.8	3159.5	3220.4	3279.8	3298.6	3037.6
17.5°	2417.3	2429.8	2468.9	2551.7	2679.8	2848.6	3017.3	3104.8	3247.0	3222.0	2957.9
20°	2320.4	2347.0	2361.0	2403.2	2492.3	2661.0	2912.6	2982.9	3134.5	3220.4	2879.8
22.5°	2325.1	2325.1	2292.3	2317.3	2398.5	2529.8	2770.4	2848.6	3089.2	3139.2	2809.5
25°	2375.1	2343.8	2345.4	2315.7	2350.1	2422.0	2642.3	2737.6	2997.0	3147.0	2772.0
27.5°	2412.6	2406.3	2397.0	2389.2	2345.4	2356.3	2557.9	2636.0	2961.1	3137.6	2714.2
30°	2548.5	2520.4	2511.0	2493.9	2436.0	2382.9	2490.7	2589.2	2932.9	3159.5	2681.4
32.5°	2662.6	2667.3	2675.1	2625.1	2575.1	2443.8	2509.5	2587.6	2912.6	3209.5	2714.2
35°	2806.4	2826.7	2829.8	2814.2	2761.1	2631.4	2587.6	2654.8	2947.0	3298.6	2717.3
37.5°	3025.1	3003.2	3062.6	3068.9	3031.4	2859.5	2768.9	2795.4	3048.6	3440.8	2836.1
40°	3167.3	3193.9	3304.8	3373.6	3309.5	3153.3	3031.4	3026.7	3195.4	3664.2	2982.9
42.5°	3325.1	3384.5	3506.4	3654.8	3647.0	3501.7	3378.3	3357.9	3456.4	3987.7	3215.8
45°	3540.8	3593.9	3764.2	3987.7	4109.5	3986.1	3800.2	3759.5	3773.6	4428.3	3612.6
47.5°	3898.6	3884.5	4129.9	4350.2	4550.2	4454.9	4375.2	4256.4	4245.5	4947.1	4161.1
50°	4303.3	4300.2	4518.9	4768.9	5000.2	5186.1	5053.3	4923.6	4926.8	5651.8	4806.4
52.5°	4687.7	4748.6	4984.6	5233.0	5629.9	5829.9	5958.1	5906.5	5658.0	6281.5	5497.1
55°	4890.8	4944.0	5178.3	5606.5	6233.1	6747.2	7094.0	7050.3	6570.6	6990.9	6178.4
57.5°	4698.6	4734.6	5051.8	5612.7	6655.0	7801.9	8134.7	8080.0	7514.4	7533.1	7001.8
60°	3893.9	3950.2	4422.1	5079.9	6490.9	8614.4	9567.6	9484.8	8373.8	8219.1	7531.6
62.5°	2697.0	2734.5	3122.0	3940.8	5712.7	8897.2	10920.8	10966.1	9280.1	8753.5	7689.4
65°	1746.9	1743.8	1965.7	2520.4	4048.6	8041.0	11720.8	12002.1	10155.1	8834.7	7640.9
67°	1234.4	1229.7	1334.4	1709.4	2803.2	6625.3	11706.7	12311.4	10630.1	8858.2	7192.5
67.5°	1139.1	1134.4	1234.4	1571.9	2529.8	6161.2	11531.7	12152.1	10797.3	8825.4	6995.6
70°	884.4	871.9	909.4	1082.9	1473.5	3984.5	9869.2	11163.0	10450.4	8006.6	5586.2
72.5°	639.1	653.2	712.5	889.1	1156.3	2143.8	7522.2	9026.9	8728.5	6034.6	3550.1
75°	445.3	457.8	553.1	725.0	1061.0	1300.1	5086.1	6547.1	6079.9	3331.4	1512.6
77.5°	232.8	248.4	353.1	579.7	964.1	1006.3	3039.2	4151.7	3222.0	1186.0	417.2
80°	107.8	115.6	176.6	411.0	806.3	884.4	1771.9	2309.5	1289.1	265.6	143.8
82.5°	46.9	51.6	81.3	235.9	571.9	773.5	1096.9	1211.0	467.2	85.9	89.1
85°	9.4	10.9	31.3	125.0	276.6	468.8	770.3	718.8	234.4	42.2	70.3
87.5°	0.0	0.0	7.8	35.9	75.0	139.1	326.6	326.6	71.9	21.9	26.6
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°	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5	3334.5
2.5°	3336.1	3279.8	3156.4	3042.3	2961.1	2868.9	2747.0	2692.3	2672.0	2643.9	2601.7
5°	3248.6	3179.8	2968.9	2756.4	2523.5	2347.0	2159.5	2050.1	1967.3	1915.7	1898.5
7.5°	3125.1	2984.5	2700.1	2359.5	2057.9	1795.4	1511.0	1318.8	1195.4	1145.4	1098.5
10°	3026.7	2843.9	2411.0	1987.6	1586.0	1201.6	881.3	712.5	584.4	536.0	529.7
12.5°	2898.6	2679.8	2140.7	1607.9	1103.2	715.7	487.5	423.5	387.5	381.3	376.6
15°	2792.3	2531.4	1884.5	1245.4	714.1	446.9	379.7	364.1	354.7	351.6	353.1
17.5°	2720.4	2372.0	1621.9	906.3	470.3	365.6	350.0	340.6	336.0	334.4	329.7
20°	2578.2	2237.6	1362.6	634.4	367.2	337.5	325.0	317.2	312.5	311.0	309.4
22.5°	2497.0	2067.3	1103.2	442.2	326.6	306.3	296.9	290.6	282.8	278.1	276.6
25°	2415.7	1942.3	871.9	343.8	296.9	282.8	268.8	260.9	248.4	242.2	240.6
27.5°	2320.4	1818.8	671.9	298.4	267.2	253.1	239.1	226.6	210.9	204.7	201.6
30°	2265.7	1698.5	506.3	267.2	245.3	226.6	209.4	193.8	176.6	165.6	162.5
32.5°	2237.6	1589.1	379.7	243.8	221.9	201.6	179.7	160.9	145.3	135.9	134.4
35°	2203.2	1482.9	298.4	221.9	200.0	178.1	156.3	137.5	121.9	114.1	110.9
37.5°	2239.2	1420.4	248.4	204.7	182.8	157.8	134.4	115.6	103.1	95.3	93.8
40°	2337.6	1368.8	215.6	189.1	165.6	139.1	117.2	98.4	87.5	81.3	78.1
42.5°	2489.2	1368.8	195.3	173.4	150.0	121.9	100.0	85.9	75.0	68.8	67.2
45°	2764.2	1411.0	178.1	157.8	131.3	104.7	85.9	71.9	60.9	54.7	53.1
47.5°	3150.1	1507.9	164.1	143.8	117.2	92.2	75.0	60.9	50.0	43.8	42.2
50°	3668.9	1728.2	150.0	126.6	104.7	79.7	62.5	48.4	39.1	32.8	31.3
52.5°	4315.8	2040.7	135.9	117.2	89.1	67.2	50.0	39.1	29.7	25.0	23.4
55°	5000.2	2423.5	118.8	104.7	76.6	56.3	40.6	29.7	21.9	18.8	17.2
57.5°	5689.3	2718.9	104.7	90.6	62.5	45.3	32.8	23.4	15.6	12.5	10.9
60°	6054.9	2747.0	90.6	75.0	50.0	35.9	25.0	17.2	10.9	7.8	6.3
62.5°	6111.2	2497.0	78.1	60.9	40.6	28.1	17.2	12.5	6.3	3.1	3.1
65°	5822.1	2081.3	67.2	48.4	31.3	20.3	12.5	7.8	3.1	1.6	0.0
67°	5353.3	1743.8	57.8	40.6	25.0	15.6	9.4	4.7	1.6	0.0	0.0
67.5°	5172.1	1650.1	54.7	37.5	23.4	14.1	7.8	4.7	1.6	0.0	0.0
70°	4014.2	1178.2	40.6	26.6	17.2	10.9	6.3	3.1	0.0	0.0	0.0
72.5°	2459.5	689.1	31.3	18.8	12.5	7.8	4.7	1.6	0.0	0.0	0.0
75°	1031.3	237.5	26.6	14.1	9.4	4.7	3.1	1.6	0.0	0.0	0.0
77.5°	268.8	89.1	18.8	9.4	6.3	4.7	3.1	1.6	0.0	0.0	0.0
80°	109.4	40.6	12.5	6.3	6.3	4.7	3.1	1.6	0.0	0.0	0.0
82.5°	71.9	18.8	7.8	6.3	4.7	3.1	1.6	0.0	0.0	0.0	0.0
85°	54.7	10.9	4.7	4.7	3.1	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	23.4	6.3	4.7	3.1	3.1	0.0	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)