

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: P484767

Luminaire Tested: **IFLD-M-SA4A-735-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484767  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-735-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

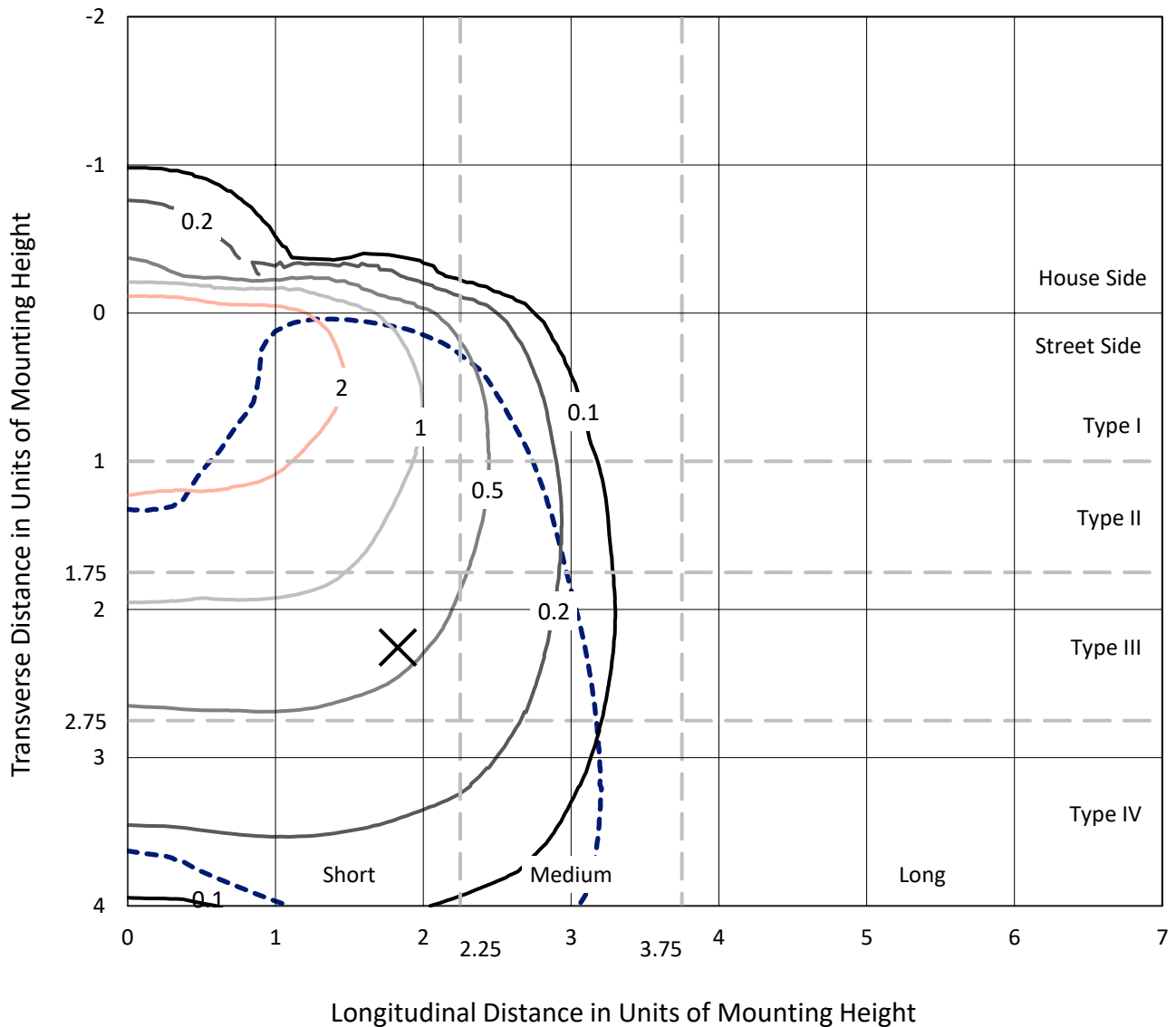
Lumens per Lamp: N/A  
Luminaire Lumens: 15047.2 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 128.6  
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

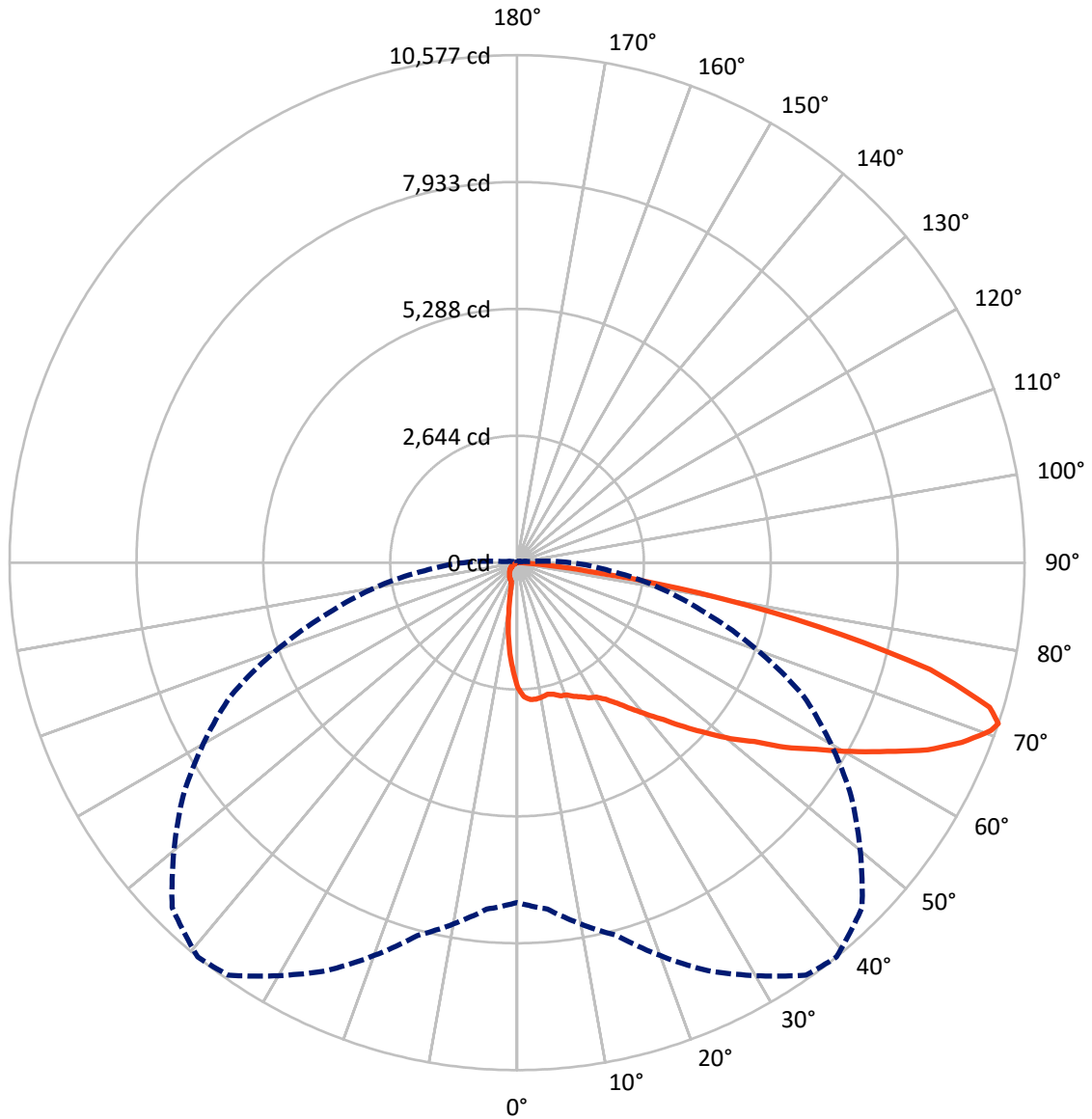
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1132.8	0.0	1132.8
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	13914.4	0.0	13914.4
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	15047.2	0.0	15047.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.0	1.5
10°-20°	539.0	3.6
20°-30°	865.2	5.8
30°-40°	1324.4	8.8
40°-50°	2126.0	14.1
50°-60°	3122.7	20.8
60°-70°	3932.9	26.1
70°-80°	2624.7	17.4
80°-90°	293.3	1.9
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°	15047.2	100.0
0°-180°	15047.2	100.0

**Coefficient of Utilization**



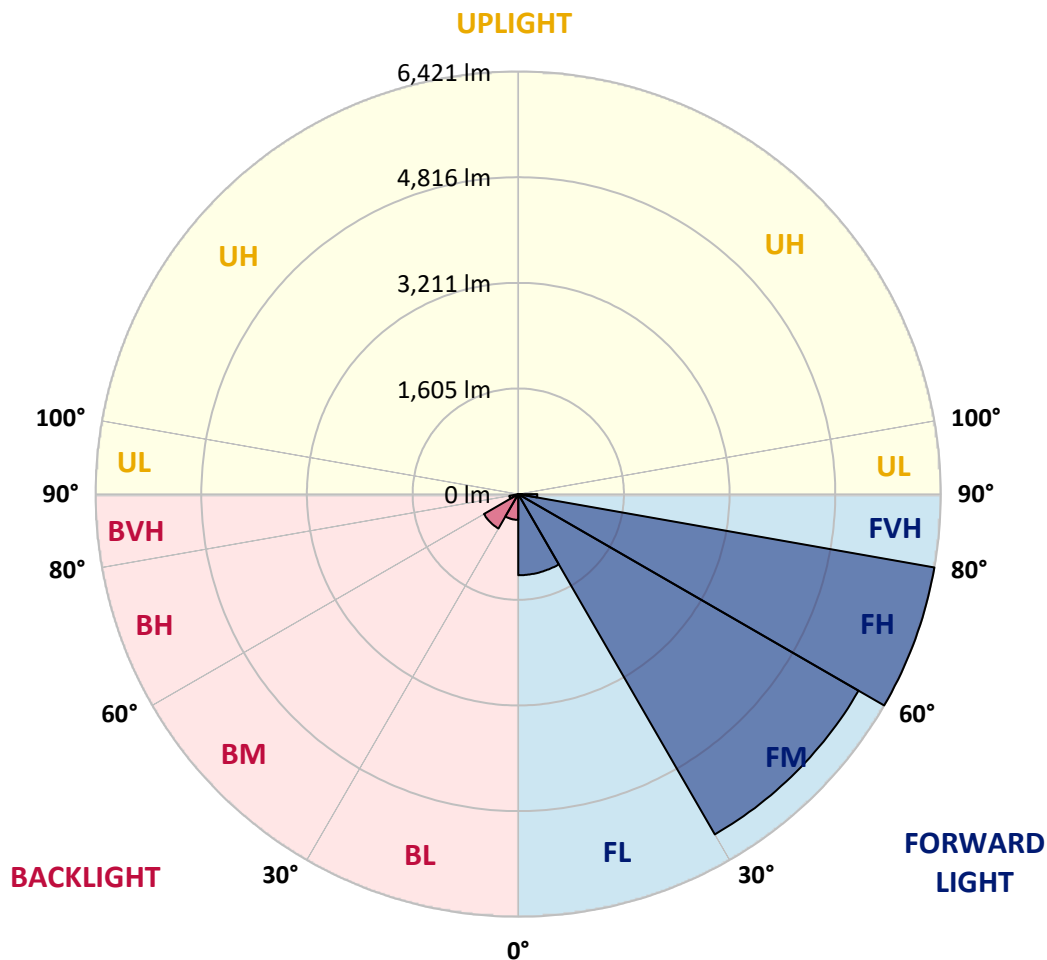
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.0	8.2			
FM (30°-60°)	5971.0	39.7			
FH (60°-80°)	6421.3	42.7			G3/7500
FVH (80°-90°)	290.1	1.9			G3/500
BL (0°-30°)	391.1	2.6	B1/500		
BM (30°-60°)	602.1	4.0	B1/1000		
BH (60°-80°)	136.3	0.9	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1
2.5°	2822.4	2850.0	2822.4	2810.5	2798.7	2800.6	2769.1	2775.0	2737.5	2688.1	2648.7
5°	2911.2	2948.7	2919.1	2905.2	2903.3	2865.8	2850.0	2812.5	2767.1	2690.1	2642.7
7.5°	2903.3	2895.4	2909.2	2897.3	2871.7	2871.7	2853.9	2800.6	2755.2	2668.4	2587.5
10°	2844.1	2867.7	2855.9	2842.1	2848.0	2850.0	2816.4	2778.9	2765.1	2678.3	2546.0
12.5°	2838.1	2798.7	2842.1	2844.1	2818.4	2816.4	2812.5	2802.6	2759.2	2680.2	2555.9
15°	2818.4	2802.6	2846.0	2848.0	2853.9	2848.0	2853.9	2846.0	2802.6	2757.2	2599.3
17.5°	2834.2	2816.4	2877.6	2907.2	2893.4	2921.0	2911.2	2875.6	2838.1	2784.9	2640.8
20°	2838.1	2863.8	2930.9	2942.7	2986.2	2940.8	2938.8	2901.3	2877.6	2820.4	2666.4
22.5°	2911.2	2923.0	3005.9	3031.6	3033.5	3027.6	2978.3	2934.8	2925.0	2853.9	2672.4
25°	3021.7	3063.1	3100.6	3116.4	3122.3	3094.7	3043.4	2988.1	2964.5	2919.1	2733.5
27.5°	3217.1	3191.4	3225.0	3248.7	3181.6	3191.4	3126.3	3078.9	3045.4	3005.9	2804.6
30°	3390.8	3367.1	3369.1	3365.1	3307.9	3254.6	3236.8	3153.9	3112.5	3128.3	2915.1
32.5°	3546.7	3495.4	3538.8	3519.1	3412.5	3396.7	3382.9	3278.3	3286.2	3359.2	3080.9
35°	3690.8	3673.0	3708.5	3673.0	3602.0	3598.0	3584.2	3493.4	3536.8	3641.4	3365.1
37.5°	3823.0	3828.9	3872.3	3854.6	3860.5	3864.4	3856.6	3759.8	3884.2	4119.1	3696.7
40°	3945.4	3937.5	4044.1	4099.3	4111.2	4154.6	4154.6	4130.9	4322.3	4586.8	4156.6
42.5°	4075.6	4095.4	4233.5	4326.3	4438.8	4476.3	4527.6	4539.4	4835.5	5137.5	4626.3
45°	4288.8	4255.2	4430.9	4650.0	4748.7	4880.9	4959.8	5026.9	5384.2	5798.6	5096.0
47.5°	4559.2	4492.1	4646.0	4963.8	5192.7	5301.3	5443.4	5532.2	5881.5	6309.8	5540.1
50°	4859.2	4790.1	4865.1	5303.3	5569.7	5767.1	5948.6	6061.1	6483.5	6882.2	5863.8
52.5°	5198.7	5135.5	5147.3	5656.5	6049.3	6193.4	6432.2	6600.0	7020.3	7227.6	5978.3
55°	5559.8	5544.0	5506.5	6001.9	6469.7	6793.4	6937.5	7138.8	7571.0	7415.1	6102.6
57.5°	5923.0	5873.6	5926.9	6459.8	7144.7	7338.1	7537.5	7657.8	7876.9	7578.9	6055.2
60°	6264.4	6268.4	6343.4	6957.2	7719.0	7993.4	8173.0	8099.9	8190.7	7650.0	5946.7
62.5°	6552.6	6544.7	6734.2	7515.7	8478.9	8664.4	8798.6	8473.0	8336.8	7719.0	5757.2
65°	6811.1	6900.0	7198.0	8180.9	9193.4	9406.5	9325.6	8826.3	8478.9	7515.7	5224.3
67.5°	7006.5	7138.8	7655.9	8806.5	9848.6	9998.6	9886.1	9094.7	8311.1	6718.4	4255.2
70°	7121.0	7255.2	7983.5	9327.6	10371.6	10480.2	10215.7	8887.4	7332.2	4865.1	2654.6
71°	7085.5	7249.3	8046.7	9382.8	10496.0	10576.9	10166.4	8504.5	6594.0	4073.7	1936.2
72.5°	6763.8	6917.7	7784.2	9343.4	10346.0	10296.6	9781.5	7584.8	5190.8	2597.4	1000.7
75°	4969.7	5135.5	6680.9	8082.2	9234.8	8895.3	7916.4	5323.0	2707.9	795.4	292.1
77.5°	2475.0	2502.6	4146.7	5867.7	6773.6	6436.1	5305.2	2968.4	1012.5	234.9	146.1
80°	1140.8	1148.7	1555.3	3039.5	4095.4	3854.6	2972.3	1464.5	457.9	124.3	114.5
82.5°	777.6	789.5	937.5	1259.2	1778.3	1500.0	1203.9	937.5	262.5	75.0	112.5
85°	142.1	130.3	525.0	667.1	686.8	465.8	416.4	811.2	98.7	43.4	98.7
87.5°	0.0	2.0	73.0	272.4	244.7	108.6	142.1	197.4	9.9	13.8	17.8
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°	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1
2.5°	2615.1	2593.4	2520.4	2439.5	2366.4	2309.2	2236.2	2202.6	2149.3	2119.7	2117.7
5°	2577.6	2518.4	2392.1	2255.9	2103.9	1977.6	1837.5	1758.5	1667.8	1640.1	1634.2
7.5°	2514.5	2429.6	2244.1	2052.6	1819.7	1596.7	1425.0	1241.4	1128.9	1081.6	1063.8
10°	2475.0	2372.4	2119.7	1833.5	1507.9	1194.1	953.3	757.9	655.3	605.9	594.1
12.5°	2475.0	2364.5	2019.1	1624.3	1192.1	817.1	590.1	477.6	444.1	432.2	432.2
15°	2469.1	2348.7	1922.4	1409.2	882.2	548.7	440.1	416.4	412.5	410.5	408.5
17.5°	2498.7	2321.0	1823.7	1178.3	623.7	432.2	404.6	400.7	396.7	396.7	392.8
20°	2520.4	2305.2	1705.3	933.5	465.8	400.7	388.8	382.9	380.9	378.9	382.9
22.5°	2502.6	2281.6	1559.2	698.7	406.6	380.9	373.0	367.1	363.2	363.2	365.1
25°	2536.2	2259.9	1413.1	527.0	380.9	363.2	355.3	351.3	349.3	347.4	343.4
27.5°	2581.6	2269.7	1239.5	424.3	359.2	345.4	337.5	333.6	331.6	327.6	331.6
30°	2636.8	2267.7	1048.0	371.1	339.5	325.7	317.8	315.8	311.8	309.9	311.8
32.5°	2731.6	2319.1	850.7	343.4	317.8	305.9	298.0	296.1	294.1	292.1	290.1
35°	2934.8	2382.2	665.1	321.7	298.0	284.2	278.3	274.3	272.4	270.4	268.4
37.5°	3185.5	2522.4	507.2	302.0	278.3	264.5	258.6	256.6	248.7	246.7	244.7
40°	3499.3	2672.4	390.8	280.3	260.5	246.7	240.8	234.9	225.0	221.1	217.1
42.5°	3890.1	2818.4	321.7	260.5	240.8	230.9	221.1	211.2	203.3	195.4	191.4
45°	4280.9	2988.1	282.2	242.8	225.0	213.2	205.3	191.4	177.6	165.8	163.8
47.5°	4606.5	3049.3	258.6	223.0	209.2	199.3	187.5	169.7	150.0	138.2	136.2
50°	4849.3	3013.8	234.9	203.3	191.4	181.6	165.8	144.1	124.3	112.5	108.6
52.5°	4896.7	2857.9	213.2	187.5	173.7	161.8	144.1	120.4	98.7	86.8	84.9
55°	4863.1	2599.3	195.4	173.7	157.9	140.1	120.4	96.7	77.0	65.1	63.2
57.5°	4794.0	2293.4	175.7	155.9	138.2	120.4	98.7	78.9	57.2	45.4	45.4
60°	4559.2	1877.0	155.9	136.2	118.4	102.6	80.9	57.2	39.5	29.6	27.6
62.5°	4231.6	1442.8	136.2	116.4	102.6	84.9	63.2	41.4	23.7	15.8	15.8
65°	3633.5	1010.5	114.5	96.7	84.9	69.1	47.4	25.7	13.8	5.9	5.9
67.5°	2761.2	625.7	94.7	80.9	73.0	55.3	33.6	15.8	5.9	2.0	0.0
70°	1584.9	325.7	75.0	65.1	57.2	41.4	23.7	7.9	3.9	0.0	0.0
71°	1107.2	240.8	67.1	57.2	51.3	37.5	19.7	5.9	2.0	0.0	0.0
72.5°	554.6	159.9	57.2	47.4	41.4	29.6	15.8	5.9	2.0	0.0	0.0
75°	197.4	102.6	39.5	31.6	29.6	21.7	9.9	3.9	2.0	0.0	0.0
77.5°	136.2	82.9	27.6	19.7	19.7	13.8	5.9	2.0	2.0	0.0	0.0
80°	124.3	45.4	17.8	11.8	9.9	7.9	3.9	2.0	0.0	0.0	0.0
82.5°	124.3	33.6	9.9	7.9	5.9	3.9	2.0	0.0	0.0	0.0	0.0
85°	86.8	17.8	5.9	5.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.8	5.9	3.9	2.0	2.0	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)