

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: P480064

Luminaire Tested: **IFLD-S-SA2C-735-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480064  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-735-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

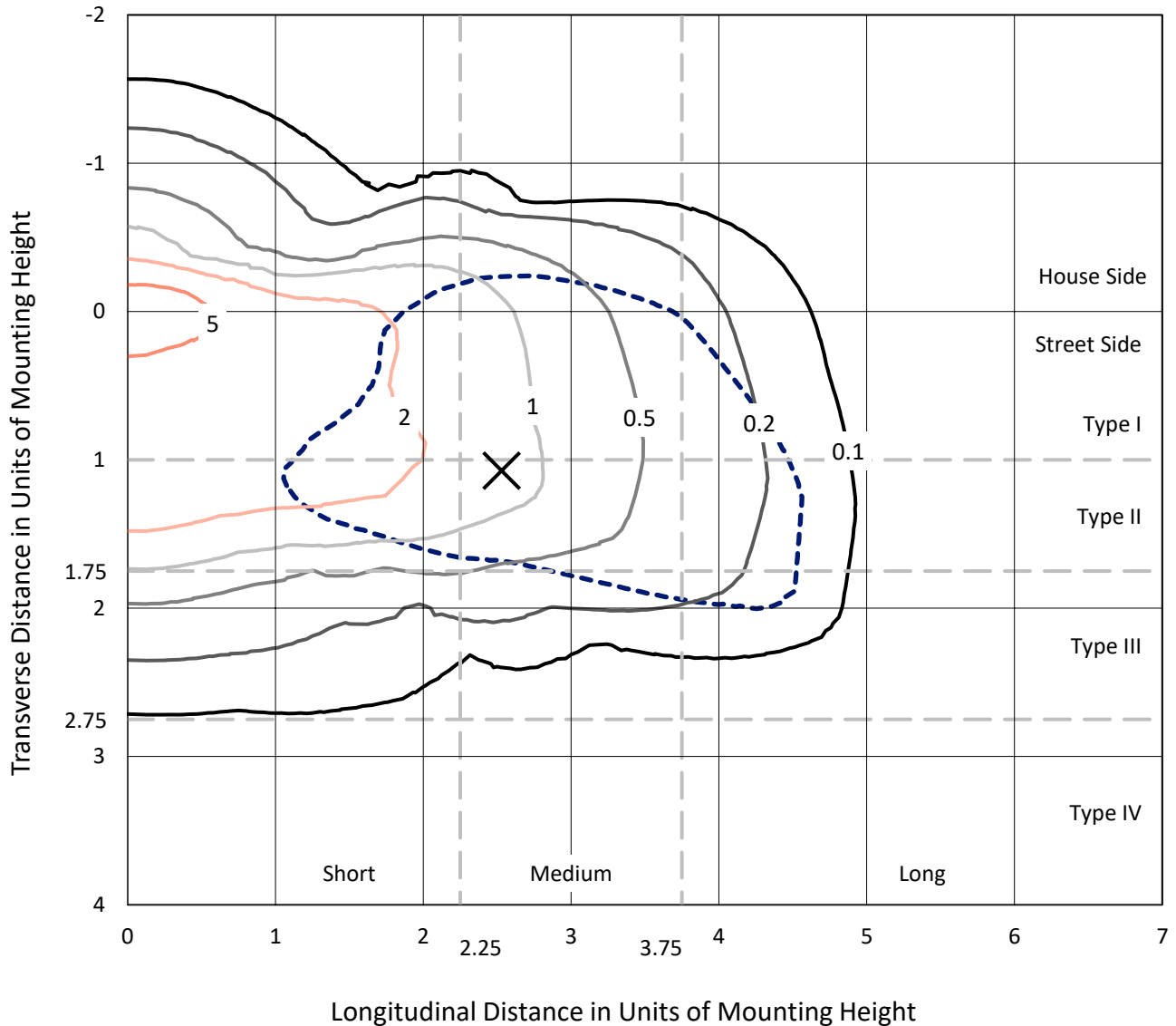
Lumens per Lamp: N/A  
Luminaire Lumens: 13977.4 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 108.2  
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

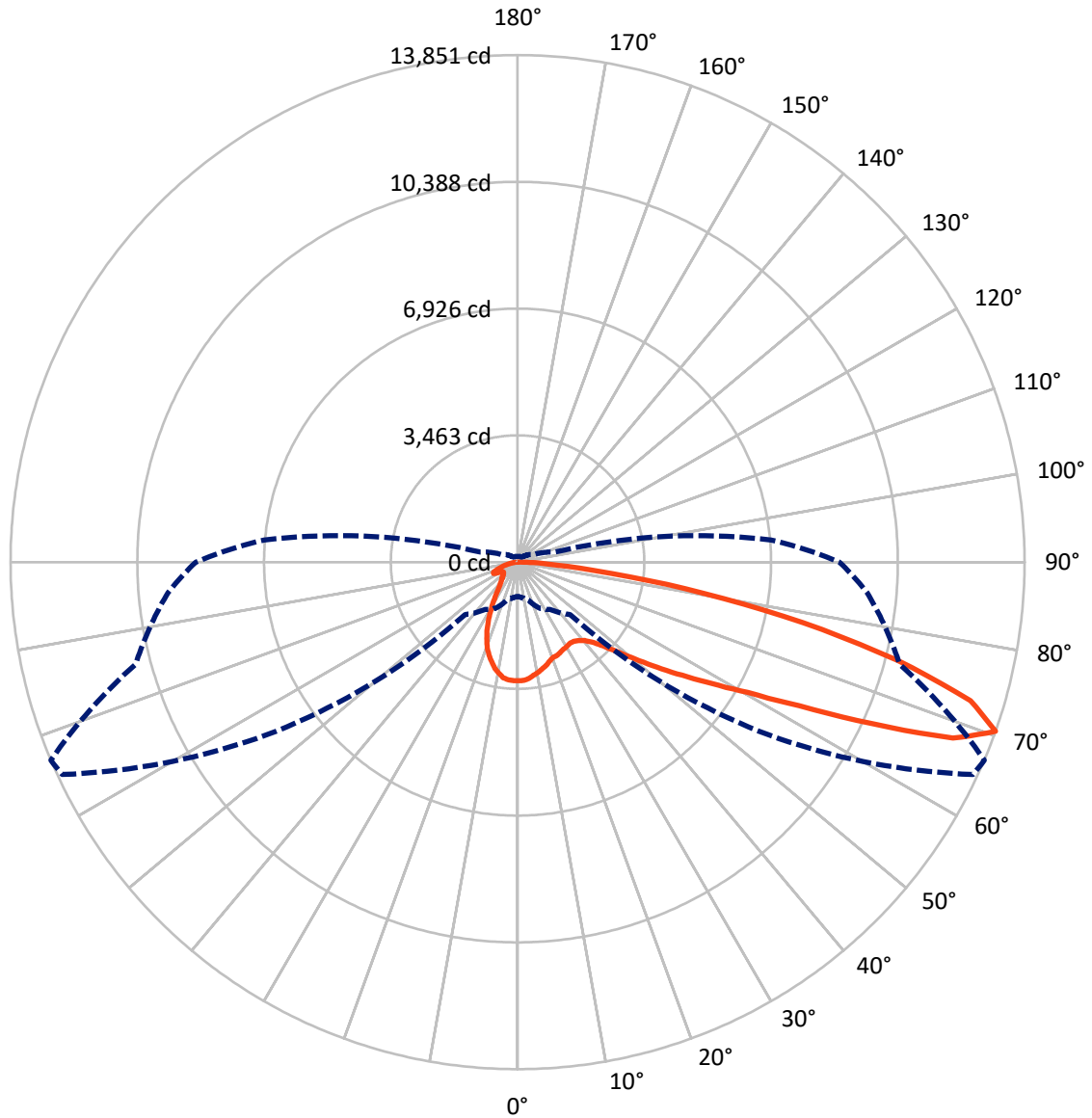
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2722.2	0.0	2722.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	11255.2	0.0	11255.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	13977.4	0.0	13977.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.3	2.0
10°-20°	676.2	4.8
20°-30°	913.1	6.5
30°-40°	1221.8	8.7
40°-50°	1796.6	12.9
50°-60°	2800.5	20.0
60°-70°	3449.8	24.7
70°-80°	2437.6	17.4
80°-90°	399.5	2.9
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°	13977.4	100.0
0°-180°	13977.4	100.0

**Coefficient of Utilization**



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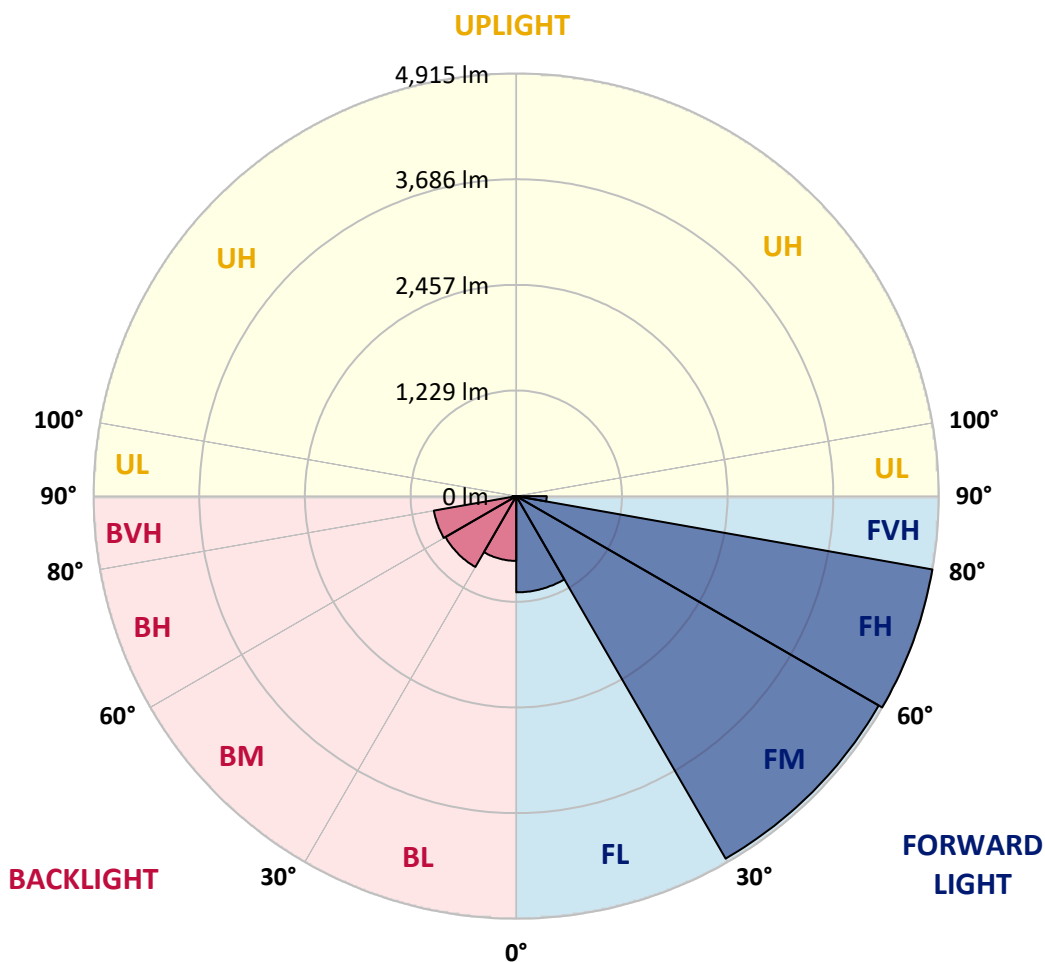
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.8	8.0			
FM (30°-60°)	4868.0	34.8			
FH (60°-80°)	4914.9	35.2			G2/5000
FVH (80°-90°)	353.4	2.5			G3/500
BL (0°-30°)	752.8	5.4	B2/1000		
BM (30°-60°)	950.9	6.8	B1/1000		
BH (60°-80°)	972.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	46.1	0.3			G1/100
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3235.7	3235.7	3235.7	3235.7	3235.7	3235.7	3235.7	3235.7	3235.7	3235.7	3235.7
2.5°	3012.9	3046.9	3059.3	3077.9	3125.9	3161.5	3183.1	3207.9	3237.3	3262.0	3277.5
5°	2802.4	2821.0	2850.4	2870.5	2930.9	3026.8	3091.8	3197.0	3193.9	3232.6	3291.4
7.5°	2598.2	2616.7	2630.7	2670.9	2757.6	2844.2	2963.4	3133.6	3121.2	3211.0	3302.3
10°	2471.3	2457.4	2462.0	2530.1	2598.2	2695.7	2845.8	3019.1	3064.0	3203.2	3333.2
12.5°	2352.1	2336.7	2373.8	2417.1	2500.7	2588.9	2768.4	2924.7	2992.8	3175.4	3347.1
15°	2277.9	2267.0	2313.4	2332.0	2431.1	2536.3	2663.2	2853.5	2927.8	3141.3	3325.5
17.5°	2236.1	2245.4	2262.4	2302.6	2366.1	2455.8	2595.1	2805.5	2838.0	3099.6	3320.8
20°	2243.8	2254.6	2256.2	2273.2	2316.5	2386.2	2528.5	2754.5	2776.1	3091.8	3333.2
22.5°	2305.7	2290.2	2296.4	2285.6	2298.0	2352.1	2477.5	2686.4	2769.9	3026.8	3306.9
25°	2398.6	2376.9	2373.8	2336.7	2313.4	2328.9	2468.2	2669.4	2723.5	3006.7	3305.4
27.5°	2562.6	2530.1	2530.1	2474.4	2380.0	2355.2	2441.9	2641.5	2689.5	2988.1	3269.8
30°	2720.4	2720.4	2722.0	2643.1	2537.8	2415.6	2452.7	2630.7	2661.6	2932.4	3221.8
32.5°	2912.3	2907.7	2899.9	2861.2	2698.8	2516.2	2505.3	2616.7	2632.2	2913.9	3207.9
35°	3099.6	3087.2	3147.5	3113.5	2947.9	2712.7	2559.5	2622.9	2657.0	2886.0	3164.5
37.5°	3240.4	3248.1	3373.5	3395.1	3252.8	2935.5	2712.7	2684.8	2717.3	2926.2	3164.5
40°	3423.0	3453.9	3571.5	3644.3	3557.6	3229.5	2955.6	2788.5	2811.7	3016.0	3232.6
42.5°	3662.8	3689.1	3839.2	3933.6	3908.9	3604.0	3195.5	3005.2	2986.6	3166.1	3334.8
45°	3980.1	3984.7	4136.4	4266.3	4317.4	3995.5	3576.2	3279.1	3263.6	3424.5	3522.0
47.5°	4357.6	4353.0	4447.4	4586.7	4724.4	4462.9	4014.1	3695.3	3639.6	3794.4	3833.0
50°	4722.8	4702.7	4724.4	4902.3	5167.0	5047.8	4546.4	4204.4	4148.7	4233.8	4300.4
52.5°	4924.0	4948.8	4890.0	5125.2	5637.4	5739.5	5252.1	4812.6	4764.6	4806.4	4922.5
55°	4783.2	4834.3	4795.6	5018.4	5843.2	6582.9	6165.1	5516.7	5454.8	5439.3	5629.6
57.5°	4184.3	4277.2	4284.9	4637.7	5772.0	7235.9	7449.5	6347.7	6254.8	6097.0	6293.5
60°	3212.5	3305.4	3376.5	3794.4	5162.3	7625.9	8938.1	7529.9	7223.5	6815.0	6932.6
62.5°	2251.5	2315.0	2386.2	2643.1	3980.1	7396.8	10225.6	9195.0	8630.2	7571.7	7718.7
65°	1640.3	1689.8	1762.6	1914.2	2445.0	6120.2	10822.9	11172.6	10637.2	8534.2	8515.7
67.5°	1234.9	1265.8	1361.8	1604.7	1694.5	3780.4	10203.9	13261.7	12828.4	9603.5	9156.3
70°	934.7	961.0	1050.7	1383.4	1583.0	2027.2	8049.9	13727.5	13851.3	10802.8	9586.5
72.5°	643.7	673.1	773.7	1152.9	1507.2	1607.8	5052.4	12471.0	12939.8	11296.4	9125.4
75°	394.6	414.7	473.5	874.3	1496.4	1572.2	2780.8	10219.4	10716.1	10437.6	7983.3
77.5°	278.5	277.0	287.8	512.2	1296.8	1581.5	1714.6	7488.1	7970.9	7692.4	5417.6
80°	202.7	204.3	215.1	306.4	880.5	1607.8	1350.9	5015.3	5159.2	4011.0	2137.0
82.5°	122.2	128.4	154.7	207.4	529.2	1451.5	1248.8	2787.0	2607.5	1287.5	588.0
85°	65.0	65.0	91.3	131.5	281.6	1083.2	1202.4	1326.2	1111.1	399.2	218.2
87.5°	15.5	15.5	26.3	52.6	113.0	518.4	820.2	527.7	422.5	134.6	89.8
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°	3235.7	3235.7	3235.7	3235.7	3235.7	3235.7	3235.7	3235.7	3235.7	3235.7	3235.7
2.5°	3271.3	3252.8	3276.0	3229.5	3192.4	3193.9	3136.7	3133.6	3125.9	3085.6	3099.6
5°	3308.5	3293.0	3266.7	3215.6	3133.6	3051.6	3002.1	2938.6	2912.3	2898.4	2904.6
7.5°	3344.1	3316.2	3240.4	3169.2	3042.3	2887.6	2797.8	2712.7	2604.4	2592.0	2570.3
10°	3353.3	3294.5	3197.0	3045.4	2876.7	2705.0	2500.7	2342.8	2259.3	2194.3	2169.5
12.5°	3339.4	3314.7	3127.4	2932.4	2677.1	2407.8	2169.5	1946.7	1792.0	1711.5	1689.8
15°	3337.9	3294.5	3050.0	2760.7	2434.1	2082.9	1744.0	1476.3	1313.8	1247.2	1247.2
17.5°	3339.4	3235.7	2958.7	2587.3	2147.9	1672.8	1299.9	1080.1	990.4	981.1	988.8
20°	3308.5	3192.4	2862.8	2383.1	1788.9	1256.5	943.9	854.2	854.2	866.6	871.2
22.5°	3280.6	3127.4	2711.1	2130.8	1423.7	909.9	767.5	741.2	770.6	792.3	801.6
25°	3241.9	3073.2	2556.4	1869.3	1083.2	733.5	667.0	673.1	701.0	739.7	736.6
27.5°	3186.2	2978.9	2372.3	1566.0	806.2	632.9	615.9	619.0	648.4	665.4	662.3
30°	3122.8	2882.9	2202.0	1264.3	639.1	580.3	578.7	586.5	591.1	600.4	598.9
32.5°	3042.3	2756.0	2021.0	982.6	575.7	550.9	544.7	540.1	544.7	543.2	538.5
35°	2985.0	2687.9	1836.8	749.0	540.1	524.6	519.9	512.2	506.0	496.7	495.2
37.5°	2969.6	2619.8	1643.4	611.2	512.2	504.5	489.0	475.1	467.3	462.7	459.6
40°	2960.3	2575.0	1454.6	537.0	489.0	481.3	462.7	444.1	436.4	431.7	433.3
42.5°	2992.8	2550.2	1262.7	499.8	468.9	455.0	434.8	413.2	411.6	408.5	413.2
45°	3107.3	2581.2	1084.8	473.5	448.8	425.6	399.2	388.4	386.9	383.8	386.9
47.5°	3367.3	2658.5	933.1	456.5	427.1	407.0	379.1	363.7	362.1	360.6	360.6
50°	3726.3	2896.8	806.2	436.4	413.2	385.3	359.0	342.0	338.9	332.7	332.7
52.5°	4289.5	3297.6	730.4	425.6	388.4	365.2	337.3	318.8	311.0	304.8	304.8
55°	4924.0	3794.4	716.5	407.0	362.1	340.4	315.7	297.1	289.4	281.6	278.5
57.5°	5646.7	4452.0	815.5	394.6	343.5	315.7	287.8	270.8	264.6	256.9	253.8
60°	6319.8	5108.2	1123.5	376.0	326.5	292.5	264.6	247.6	239.9	232.1	232.1
62.5°	7098.2	5920.6	1644.9	376.0	311.0	267.7	239.9	227.5	222.8	215.1	213.5
65°	8018.9	6760.8	2025.6	399.2	306.4	246.0	216.6	204.3	199.6	195.0	193.4
67.5°	8719.9	7243.6	1742.4	461.1	326.5	227.5	193.4	185.7	182.6	178.0	174.9
70°	8794.2	6949.6	1050.7	498.3	346.6	208.9	173.3	165.6	165.6	160.9	157.8
72.5°	8127.2	6166.6	707.2	444.1	314.1	187.2	153.2	147.0	143.9	140.8	139.3
75°	6801.1	5230.4	558.6	354.4	241.4	154.7	133.1	126.9	122.2	120.7	117.6
77.5°	4568.1	3399.8	413.2	277.0	178.0	125.3	111.4	105.2	100.6	99.0	94.4
80°	1754.8	1295.2	266.2	201.2	125.3	99.0	88.2	82.0	78.9	74.3	71.2
82.5°	516.9	419.4	148.6	123.8	80.5	68.1	63.4	58.8	54.2	49.5	48.0
85°	213.5	191.9	91.3	65.0	49.5	40.2	37.1	32.5	27.9	24.8	21.7
87.5°	99.0	82.0	41.8	24.8	17.0	9.3	4.6	1.5	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)