

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: P480067

Luminaire Tested: **IFLD-S-SA3A-735-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480067  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-735-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

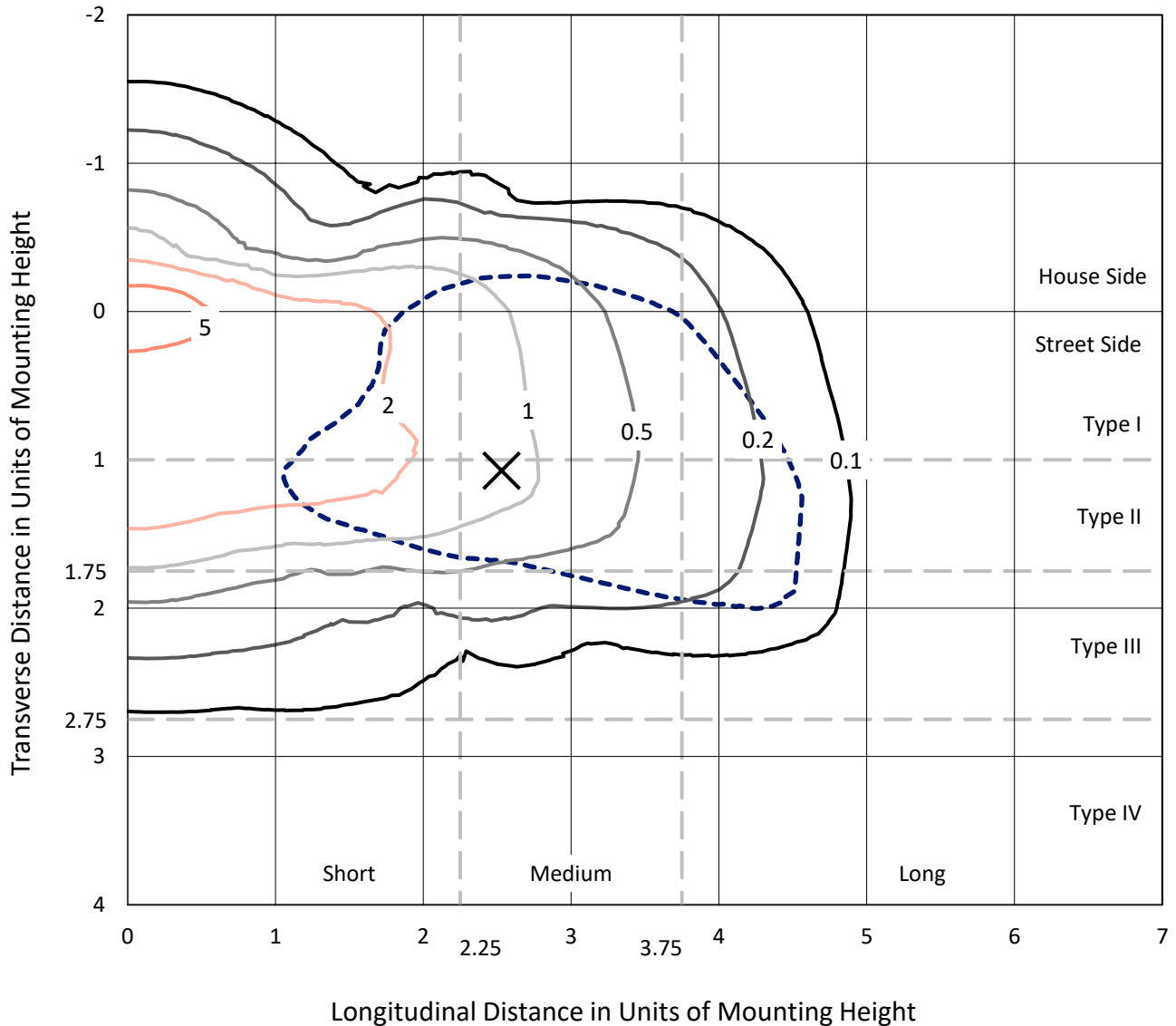
Lumens per Lamp: N/A  
Luminaire Lumens: 13530.1 lumens  
Efficiency: N/A  
Efficacy: 142.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

REPORT NUMBER: P480067  
 CATALOG NUMBER: IFLD-S-SA3A-735-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

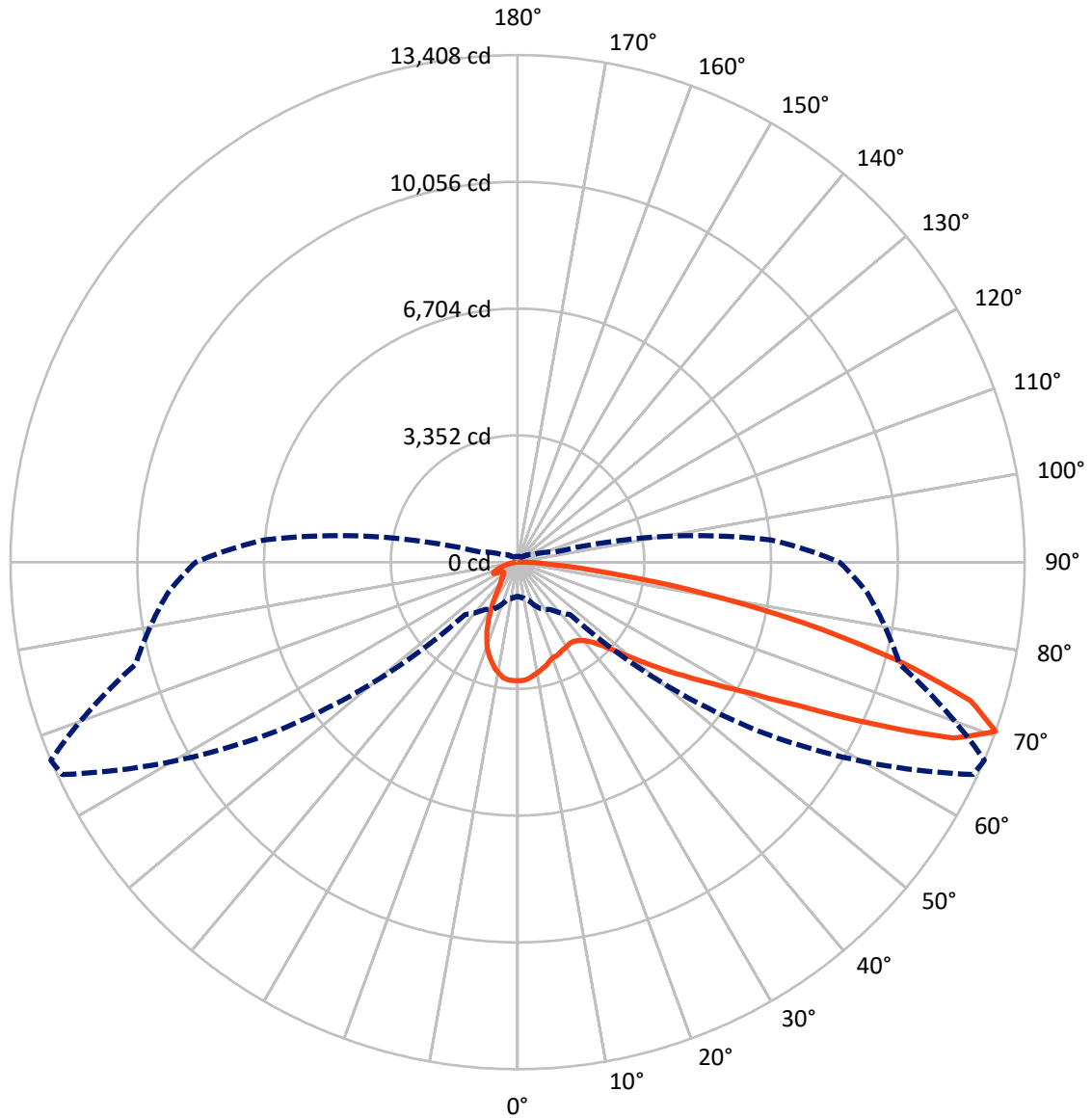
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc  
 Type III - Medium - N/A

REPORT NUMBER: P480067  
CATALOG NUMBER: IFLD-S-SA3A-735-U-SL2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P480067  
 CATALOG NUMBER: IFLD-S-SA3A-735-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2635.1	0.0	2635.1
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	10895.0	0.0	10895.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	13530.1	0.0	13530.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.3	2.0
10°-20°	654.5	4.8
20°-30°	883.9	6.5
30°-40°	1182.7	8.7
40°-50°	1739.1	12.9
50°-60°	2710.9	20.0
60°-70°	3339.4	24.7
70°-80°	2359.6	17.4
80°-90°	386.7	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°	13530.1	100.0
0°-180°	13530.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P480067

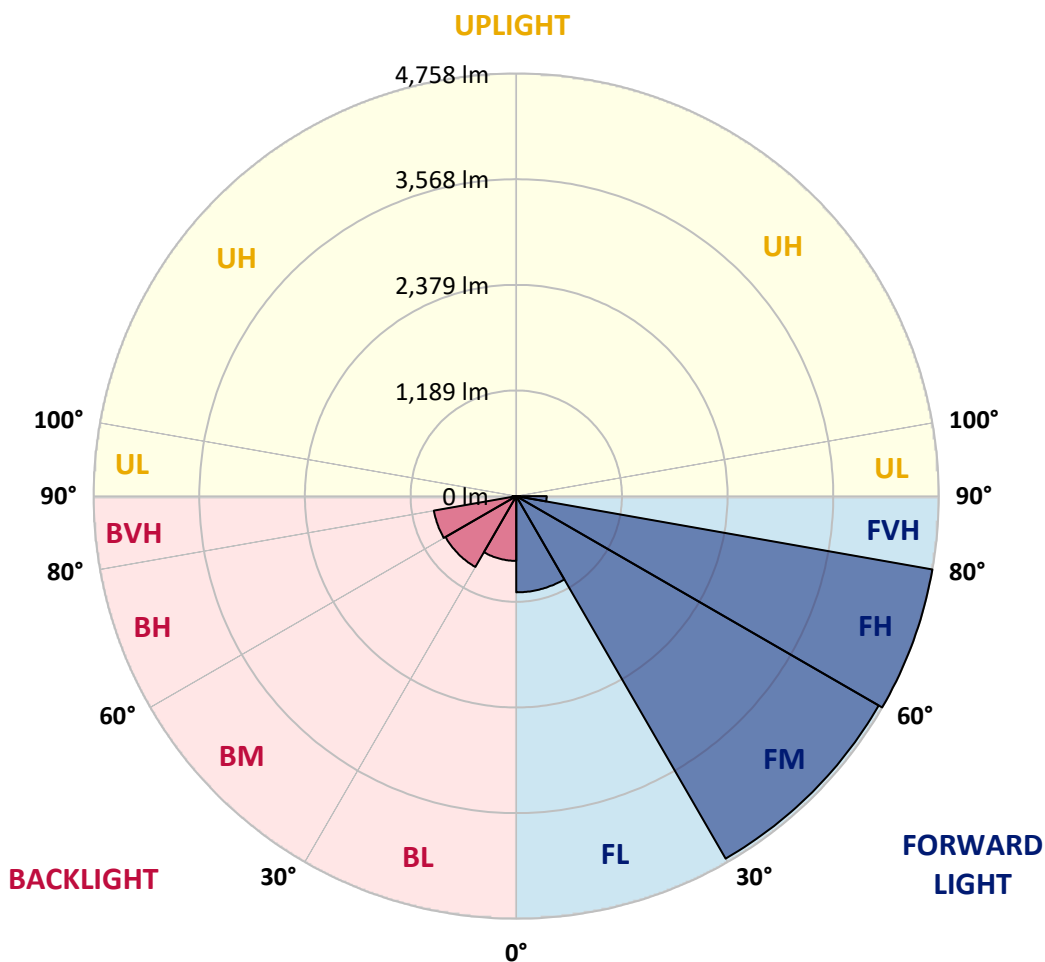
CATALOG NUMBER: IFLD-S-SA3A-735-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1083.0	8.0			
FM (30°-60°)	4712.2	34.8			
FH (60°-80°)	4757.6	35.2			G2/5000
FVH (80°-90°)	342.1	2.5			G3/500
BL (0°-30°)	728.7	5.4	B2/1000		
BM (30°-60°)	920.5	6.8	B1/1000		
BH (60°-80°)	941.3	7.0	B2/1000		G2/1000
BVH (80°-90°)	44.6	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





REPORT NUMBER: P480067

CATALOG NUMBER: IFLD-S-SA3A-735-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3132.2	3132.2	3132.2	3132.2	3132.2	3132.2	3132.2	3132.2	3132.2	3132.2	3132.2
2.5°	2916.5	2949.4	2961.4	2979.4	3025.8	3060.3	3081.2	3105.2	3133.7	3157.6	3172.6
5°	2712.8	2730.7	2759.2	2778.7	2837.1	2930.0	2992.9	3094.7	3091.7	3129.2	3186.1
7.5°	2515.0	2533.0	2546.5	2585.4	2669.3	2753.2	2868.5	3033.3	3021.3	3108.2	3196.6
10°	2392.2	2378.7	2383.2	2449.1	2515.0	2609.4	2754.7	2922.5	2965.9	3100.7	3226.5
12.5°	2276.9	2261.9	2297.8	2339.8	2420.7	2506.0	2679.8	2831.1	2897.0	3073.8	3240.0
15°	2205.0	2194.5	2239.4	2257.4	2353.3	2455.1	2577.9	2762.2	2834.1	3040.8	3219.1
17.5°	2164.5	2173.5	2190.0	2228.9	2290.3	2377.2	2512.0	2715.8	2747.2	3000.4	3214.6
20°	2172.0	2182.5	2184.0	2200.5	2242.4	2309.8	2447.6	2666.3	2687.3	2992.9	3226.5
22.5°	2231.9	2216.9	2222.9	2212.4	2224.4	2276.9	2398.2	2600.4	2681.3	2930.0	3201.1
25°	2321.8	2300.8	2297.8	2261.9	2239.4	2254.4	2389.2	2583.9	2636.4	2910.5	3199.6
27.5°	2480.6	2449.1	2449.1	2395.2	2303.8	2279.9	2363.7	2557.0	2603.4	2892.5	3165.1
30°	2633.4	2633.4	2634.9	2558.5	2456.6	2338.3	2374.2	2546.5	2576.4	2838.6	3118.7
32.5°	2819.1	2814.6	2807.1	2769.7	2612.4	2435.6	2425.2	2533.0	2548.0	2820.6	3105.2
35°	3000.4	2988.4	3046.8	3013.8	2853.6	2625.9	2477.6	2539.0	2572.0	2793.6	3063.3
37.5°	3136.7	3144.2	3265.5	3286.5	3148.7	2841.6	2625.9	2598.9	2630.4	2832.6	3063.3
40°	3313.4	3343.4	3457.2	3527.6	3443.7	3126.2	2861.1	2699.3	2721.7	2919.5	3129.2
42.5°	3545.6	3571.1	3716.4	3807.7	3783.8	3488.7	3093.2	2909.0	2891.0	3064.8	3228.0
45°	3852.7	3857.2	4004.0	4129.8	4179.2	3867.7	3461.7	3174.1	3159.1	3314.9	3409.3
47.5°	4218.2	4213.7	4305.1	4439.9	4573.2	4320.0	3885.6	3577.1	3523.1	3672.9	3710.4
50°	4571.7	4552.2	4573.2	4745.5	5001.6	4886.3	4400.9	4069.9	4016.0	4098.3	4162.8
52.5°	4766.4	4790.4	4733.5	4961.2	5457.0	5555.8	5084.0	4658.6	4612.1	4652.6	4764.9
55°	4630.1	4679.5	4642.1	4857.8	5656.2	6372.2	5967.8	5340.1	5280.2	5265.2	5449.5
57.5°	4050.4	4140.3	4147.8	4489.3	5587.3	7004.3	7211.0	6144.5	6054.6	5901.9	6092.1
60°	3109.7	3199.6	3268.5	3672.9	4997.1	7381.8	8652.1	7288.9	6992.3	6596.9	6710.7
62.5°	2179.5	2240.9	2309.8	2558.5	3852.7	7160.1	9898.3	8900.7	8354.0	7329.4	7471.7
65°	1587.8	1635.7	1706.1	1852.9	2366.7	5924.3	10476.5	10815.1	10296.8	8261.1	8243.1
67.5°	1195.4	1225.3	1318.2	1553.4	1640.2	3659.4	9877.4	12837.3	12417.9	9296.2	8863.3
70°	904.8	930.2	1017.1	1339.2	1532.4	1962.3	7792.2	13288.2	13408.0	10457.1	9279.7
72.5°	623.1	651.6	749.0	1116.0	1459.0	1556.4	4890.8	12071.8	12525.7	10934.9	8833.3
75°	382.0	401.4	458.4	846.3	1448.5	1521.9	2691.8	9892.3	10373.2	10103.6	7727.8
77.5°	269.6	268.1	278.6	495.8	1255.3	1530.9	1659.7	7248.5	7715.9	7446.2	5244.3
80°	196.2	197.7	208.2	296.6	852.3	1556.4	1307.7	4854.8	4994.1	3882.6	2068.6
82.5°	118.3	124.3	149.8	200.7	512.3	1405.1	1208.8	2697.8	2524.0	1246.3	569.2
85°	62.9	62.9	88.4	127.3	272.6	1048.6	1163.9	1283.7	1075.5	386.5	211.2
87.5°	15.0	15.0	25.5	50.9	109.3	501.8	793.9	510.8	408.9	130.3	86.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480067  
 CATALOG NUMBER: IFLD-S-SA3A-735-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3132.2	3132.2	3132.2	3132.2	3132.2	3132.2	3132.2	3132.2	3132.2	3132.2	3132.2
2.5°	3166.6	3148.7	3171.1	3126.2	3090.2	3091.7	3036.3	3033.3	3025.8	2986.9	3000.4
5°	3202.6	3187.6	3162.1	3112.7	3033.3	2953.9	2906.0	2844.6	2819.1	2805.6	2811.6
7.5°	3237.0	3210.1	3136.7	3067.8	2944.9	2795.1	2708.3	2625.9	2521.0	2509.0	2488.1
10°	3246.0	3189.1	3094.7	2947.9	2784.7	2618.4	2420.7	2267.9	2187.0	2124.1	2100.1
12.5°	3232.5	3208.6	3027.3	2838.6	2591.4	2330.8	2100.1	1884.4	1734.6	1656.7	1635.7
15°	3231.0	3189.1	2952.4	2672.3	2356.2	2016.2	1688.2	1429.0	1271.7	1207.3	1207.3
17.5°	3232.5	3132.2	2864.0	2504.5	2079.1	1619.3	1258.3	1045.6	958.7	949.7	957.2
20°	3202.6	3090.2	2771.2	2306.8	1731.6	1216.3	913.7	826.9	826.9	838.8	843.3
22.5°	3175.6	3027.3	2624.4	2062.7	1378.1	880.8	743.0	717.5	746.0	766.9	775.9
25°	3138.2	2974.9	2474.6	1809.5	1048.6	710.0	645.6	651.6	678.6	716.0	713.0
27.5°	3084.2	2883.5	2296.3	1515.9	780.4	612.7	596.2	599.2	627.6	644.1	641.1
30°	3022.8	2790.6	2131.6	1223.8	618.6	561.7	560.2	567.7	572.2	581.2	579.7
32.5°	2944.9	2667.8	1956.3	951.2	557.2	533.3	527.3	522.8	527.3	525.8	521.3
35°	2889.5	2601.9	1778.0	725.0	522.8	507.8	503.3	495.8	489.8	480.8	479.3
37.5°	2874.5	2536.0	1590.8	591.7	495.8	488.3	473.3	459.9	452.4	447.9	444.9
40°	2865.5	2492.6	1408.1	519.8	473.3	465.9	447.9	429.9	422.4	417.9	419.4
42.5°	2897.0	2468.6	1222.3	483.8	453.9	440.4	420.9	399.9	398.5	395.5	399.9
45°	3007.8	2498.6	1050.1	458.4	434.4	411.9	386.5	376.0	374.5	371.5	374.5
47.5°	3259.5	2573.4	903.3	441.9	413.4	394.0	367.0	352.0	350.5	349.0	349.0
50°	3607.0	2804.1	780.4	422.4	399.9	373.0	347.5	331.0	328.0	322.1	322.1
52.5°	4152.3	3192.1	707.0	411.9	376.0	353.5	326.5	308.6	301.1	295.1	295.1
55°	4766.4	3672.9	693.5	394.0	350.5	329.5	305.6	287.6	280.1	272.6	269.6
57.5°	5466.0	4309.6	789.4	382.0	332.5	305.6	278.6	262.1	256.1	248.7	245.7
60°	6117.6	4944.7	1087.5	364.0	316.1	283.1	256.1	239.7	232.2	224.7	224.7
62.5°	6871.0	5731.1	1592.3	364.0	301.1	259.1	232.2	220.2	215.7	208.2	206.7
65°	7762.3	6544.5	1960.8	386.5	296.6	238.2	209.7	197.7	193.2	188.7	187.2
67.5°	8440.9	7011.8	1686.7	446.4	316.1	220.2	187.2	179.8	176.8	172.3	169.3
70°	8512.8	6727.2	1017.1	482.3	335.5	202.2	167.8	160.3	160.3	155.8	152.8
72.5°	7867.1	5969.3	684.6	429.9	304.1	181.2	148.3	142.3	139.3	136.3	134.8
75°	6583.4	5063.0	540.8	343.0	233.7	149.8	128.8	122.8	118.3	116.8	113.8
77.5°	4421.9	3291.0	399.9	268.1	172.3	121.3	107.9	101.9	97.4	95.9	91.4
80°	1698.7	1253.8	257.6	194.7	121.3	95.9	85.4	79.4	76.4	71.9	68.9
82.5°	500.3	405.9	143.8	119.8	77.9	65.9	61.4	56.9	52.4	47.9	46.4
85°	206.7	185.7	88.4	62.9	47.9	38.9	36.0	31.5	27.0	24.0	21.0
87.5°	95.9	79.4	40.4	24.0	16.5	9.0	4.5	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)