

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: P480145

Luminaire Tested: **IFLD-S-SA3A-750-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480145
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-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

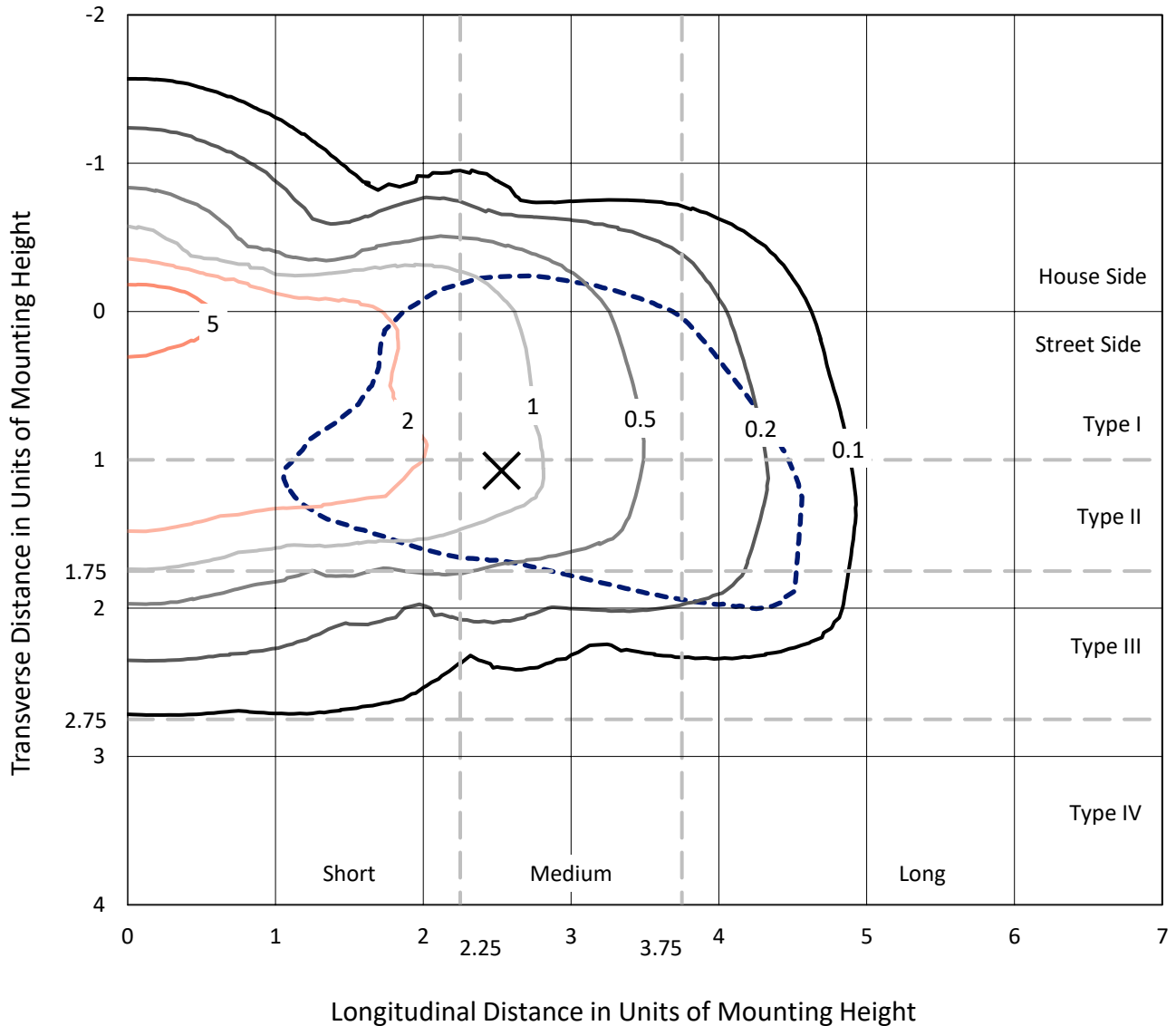
Lumens per Lamp: N/A
Luminaire Lumens: 14032.2 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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: P480145
 CATALOG NUMBER: IFLD-S-SA3A-750-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

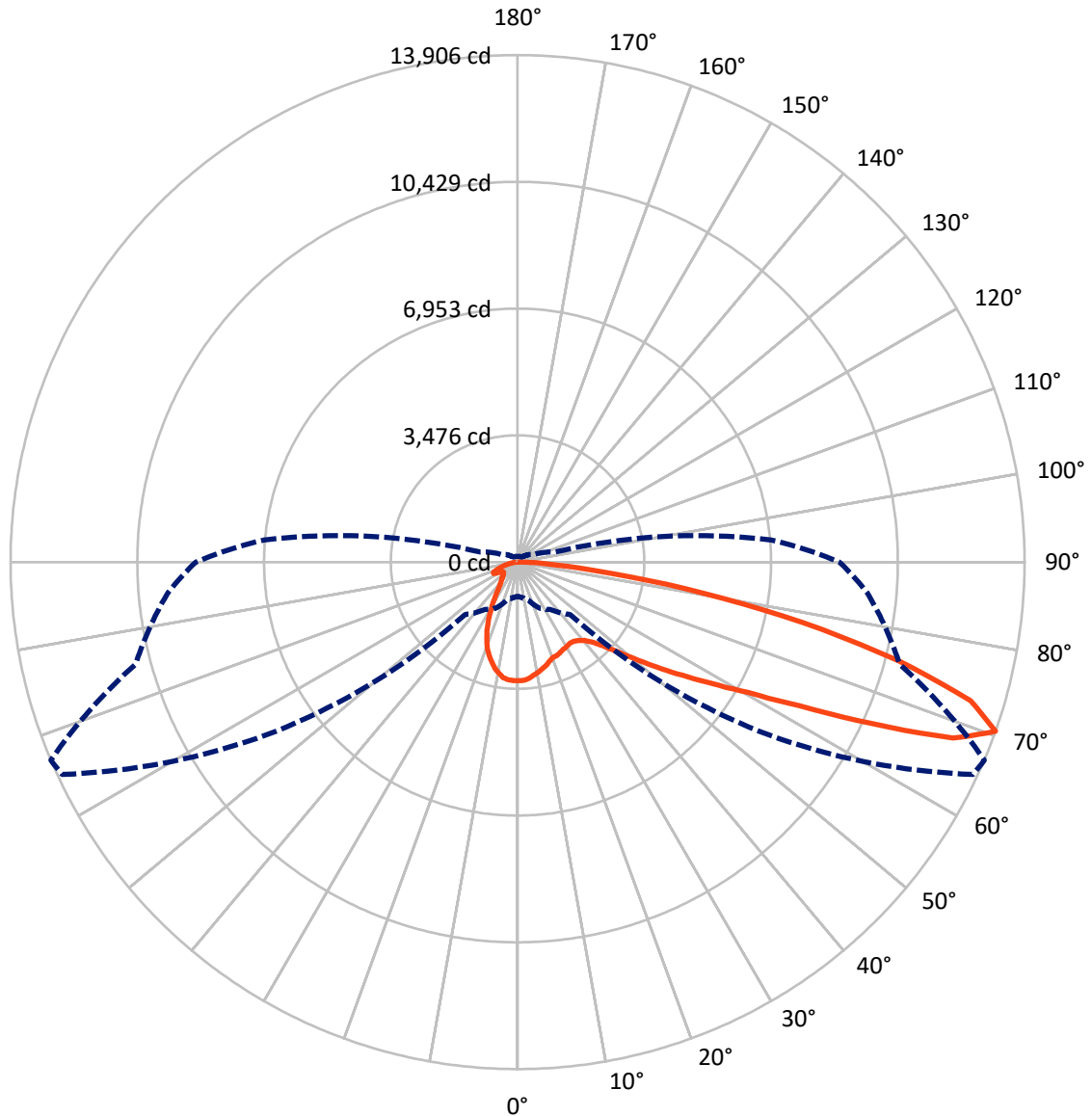
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P480145
CATALOG NUMBER: IFLD-S-SA3A-750-U-SL2

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
House Side	Lumens	2732.9	0.0	2732.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	11299.3	0.0	11299.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	14032.2	0.0	14032.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.4	2.0
10°-20°	678.8	4.8
20°-30°	916.7	6.5
30°-40°	1226.6	8.7
40°-50°	1803.7	12.9
50°-60°	2811.5	20.0
60°-70°	3463.3	24.7
70°-80°	2447.1	17.4
80°-90°	401.1	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°	14032.2	100.0
0°-180°	14032.2	100.0

Coefficient of Utilization



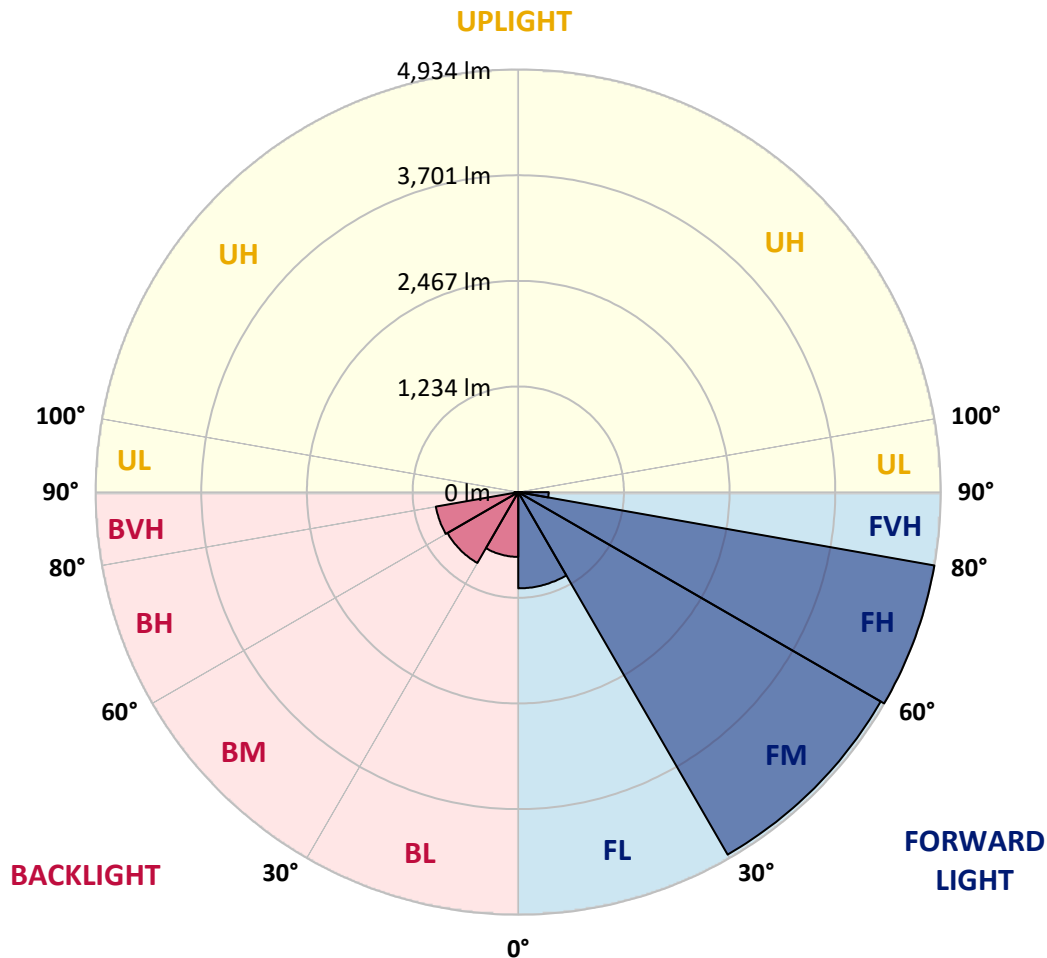
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1123.2	8.0			
FM (30°-60°)	4887.1	34.8			
FH (60°-80°)	4934.2	35.2			G2/5000
FVH (80°-90°)	354.8	2.5			G3/500
BL (0°-30°)	755.7	5.4	B2/1000		
BM (30°-60°)	954.7	6.8	B1/1000		
BH (60°-80°)	976.2	7.0	B2/1000		G2/1000
BVH (80°-90°)	46.3	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: P480145

CATALOG NUMBER: IFLD-S-SA3A-750-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3248.4	3248.4	3248.4	3248.4	3248.4	3248.4	3248.4	3248.4	3248.4	3248.4	3248.4
2.5°	3024.7	3058.9	3071.3	3089.9	3138.1	3173.8	3195.6	3220.4	3250.0	3274.8	3290.4
5°	2813.4	2832.1	2861.6	2881.8	2942.4	3038.7	3103.9	3209.6	3206.5	3245.3	3304.3
7.5°	2608.4	2627.0	2641.0	2681.4	2768.4	2855.4	2975.0	3145.9	3133.4	3223.6	3315.2
10°	2481.0	2467.0	2471.6	2540.0	2608.4	2706.2	2856.9	3030.9	3076.0	3215.8	3346.3
12.5°	2361.3	2345.8	2383.1	2426.6	2510.5	2599.0	2779.2	2936.1	3004.5	3187.8	3360.3
15°	2286.8	2275.9	2322.5	2341.2	2440.6	2546.2	2673.6	2864.7	2939.3	3153.6	3338.5
17.5°	2244.8	2254.2	2271.2	2311.6	2375.3	2465.4	2605.3	2816.5	2849.2	3111.7	3333.9
20°	2252.6	2263.5	2265.0	2282.1	2325.6	2395.5	2538.4	2765.3	2787.0	3103.9	3346.3
22.5°	2314.7	2299.2	2305.4	2294.5	2307.0	2361.3	2487.2	2696.9	2780.8	3038.7	3319.9
25°	2408.0	2386.2	2383.1	2345.8	2322.5	2338.0	2477.9	2679.8	2734.2	3018.5	3318.3
27.5°	2572.6	2540.0	2540.0	2484.1	2389.3	2364.5	2451.5	2651.9	2700.0	2999.8	3282.6
30°	2731.1	2731.1	2732.6	2653.4	2547.8	2425.0	2462.3	2641.0	2672.1	2943.9	3234.4
32.5°	2923.7	2919.1	2911.3	2872.5	2709.3	2526.0	2515.1	2627.0	2642.5	2925.3	3220.4
35°	3111.7	3099.3	3159.9	3125.7	2959.5	2723.3	2569.5	2633.2	2667.4	2897.3	3176.9
37.5°	3253.1	3260.8	3386.7	3408.4	3265.5	2947.0	2723.3	2695.4	2728.0	2937.7	3176.9
40°	3436.4	3467.5	3585.5	3658.5	3571.5	3242.2	2967.2	2799.4	2822.7	3027.8	3245.3
42.5°	3677.2	3703.6	3854.3	3949.0	3924.2	3618.1	3208.0	3016.9	2998.3	3178.5	3347.8
45°	3995.6	4000.3	4152.6	4283.1	4334.3	4011.2	3590.2	3291.9	3276.4	3437.9	3535.8
47.5°	4374.7	4370.0	4464.8	4604.6	4742.9	4480.3	4029.8	3709.8	3653.9	3809.2	3848.1
50°	4741.3	4721.1	4742.9	4921.5	5187.2	5067.6	4564.2	4220.9	4165.0	4250.4	4317.2
52.5°	4943.3	4968.2	4909.1	5145.3	5659.5	5762.0	5272.6	4831.4	4783.3	4825.2	4941.7
55°	4801.9	4853.2	4814.4	5038.1	5866.1	6608.7	6189.2	5538.3	5476.2	5460.6	5651.7
57.5°	4200.7	4293.9	4301.7	4655.9	5794.6	7264.3	7478.6	6372.5	6279.3	6120.9	6318.2
60°	3225.1	3318.3	3389.8	3809.2	5182.5	7655.7	8973.1	7559.4	7251.8	6841.7	6959.8
62.5°	2260.4	2324.1	2395.5	2653.4	3995.6	7425.8	10265.7	9231.0	8664.0	7601.4	7749.0
65°	1646.7	1696.4	1769.5	1921.7	2454.6	6144.2	10865.3	11216.4	10678.9	8567.7	8549.0
67.5°	1239.7	1270.8	1367.1	1611.0	1701.1	3795.2	10243.9	13313.7	12878.7	9641.1	9192.2
70°	938.3	964.7	1054.8	1388.8	1589.2	2035.1	8081.4	13781.3	13905.5	10845.1	9624.0
72.5°	646.3	675.8	776.8	1157.4	1513.1	1614.1	5072.2	12519.8	12990.5	11340.7	9161.1
75°	396.1	416.3	475.4	877.7	1502.3	1578.4	2791.7	10259.4	10758.1	10478.5	8014.6
77.5°	279.6	278.1	289.0	514.2	1301.8	1587.7	1721.3	7517.5	8002.2	7722.5	5438.9
80°	203.5	205.1	215.9	307.6	884.0	1614.1	1356.2	5035.0	5179.4	4026.7	2145.4
82.5°	122.7	128.9	155.4	208.2	531.3	1457.2	1253.7	2797.9	2617.7	1292.5	590.3
85°	65.2	65.2	91.7	132.0	282.7	1087.5	1207.1	1331.4	1115.4	400.8	219.0
87.5°	15.5	15.5	26.4	52.8	113.4	520.4	823.4	529.7	424.1	135.2	90.1
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°	3248.4	3248.4	3248.4	3248.4	3248.4	3248.4	3248.4	3248.4	3248.4	3248.4	3248.4
2.5°	3284.1	3265.5	3288.8	3242.2	3204.9	3206.5	3149.0	3145.9	3138.1	3097.7	3111.7
5°	3321.4	3305.9	3279.5	3228.2	3145.9	3063.5	3013.8	2950.1	2923.7	2909.7	2916.0
7.5°	3357.2	3329.2	3253.1	3181.6	3054.2	2898.9	2808.8	2723.3	2614.6	2602.1	2580.4
10°	3366.5	3307.4	3209.6	3057.3	2888.0	2715.6	2510.5	2352.0	2268.1	2202.9	2178.0
12.5°	3352.5	3327.6	3139.7	2943.9	2687.6	2417.3	2178.0	1954.3	1799.0	1718.2	1696.4
15°	3350.9	3307.4	3062.0	2771.5	2443.7	2091.0	1750.8	1482.1	1318.9	1252.1	1252.1
17.5°	3352.5	3248.4	2970.3	2597.5	2156.3	1679.4	1305.0	1084.4	994.3	984.9	992.7
20°	3321.4	3204.9	2874.0	2392.4	1795.9	1261.5	947.6	857.5	857.5	870.0	874.6
22.5°	3293.5	3139.7	2721.8	2139.2	1429.2	913.5	770.5	744.1	773.7	795.4	804.7
25°	3254.6	3085.3	2566.4	1876.7	1087.5	736.4	669.6	675.8	703.7	742.6	739.5
27.5°	3198.7	2990.5	2381.5	1572.2	809.4	635.4	618.3	621.4	650.9	668.0	664.9
30°	3135.0	2894.2	2210.7	1269.2	641.6	582.6	581.0	588.8	593.4	602.8	601.2
32.5°	3054.2	2766.8	2028.9	986.5	577.9	553.1	546.8	542.2	546.8	545.3	540.6
35°	2996.7	2698.5	1844.0	751.9	542.2	526.6	522.0	514.2	508.0	498.7	497.1
37.5°	2981.2	2630.1	1649.8	613.6	514.2	506.4	490.9	476.9	469.2	464.5	461.4
40°	2971.9	2585.1	1460.3	539.1	490.9	483.1	464.5	445.9	438.1	433.4	435.0
42.5°	3004.5	2560.2	1267.7	501.8	470.7	456.7	436.5	414.8	413.2	410.1	414.8
45°	3119.5	2591.3	1089.0	475.4	450.5	427.2	400.8	389.9	388.4	385.3	388.4
47.5°	3380.5	2668.9	936.8	458.3	428.8	408.6	380.6	365.1	363.5	362.0	362.0
50°	3740.9	2908.2	809.4	438.1	414.8	386.8	360.4	343.3	340.2	334.0	334.0
52.5°	4306.4	3310.5	733.3	427.2	389.9	366.6	338.7	320.0	312.3	306.0	306.0
55°	4943.3	3809.2	719.3	408.6	363.5	341.8	316.9	298.3	290.5	282.7	279.6
57.5°	5668.8	4469.5	818.7	396.1	344.9	316.9	289.0	271.9	265.7	257.9	254.8
60°	6344.6	5128.2	1127.9	377.5	327.8	293.6	265.7	248.6	240.8	233.0	233.0
62.5°	7126.0	5943.8	1651.4	377.5	312.3	268.8	240.8	228.4	223.7	215.9	214.4
65°	8050.3	6787.3	2033.6	400.8	307.6	247.0	217.5	205.1	200.4	195.7	194.2
67.5°	8754.1	7272.0	1749.3	462.9	327.8	228.4	194.2	186.4	183.3	178.7	175.5
70°	8828.6	6976.9	1054.8	500.2	348.0	209.7	174.0	166.2	166.2	161.6	158.5
72.5°	8159.1	6190.8	710.0	445.9	315.4	188.0	153.8	147.6	144.5	141.4	139.8
75°	6827.7	5250.9	560.8	355.8	242.3	155.4	133.6	127.4	122.7	121.2	118.1
77.5°	4586.0	3413.1	414.8	278.1	178.7	125.8	111.9	105.6	101.0	99.4	94.8
80°	1761.7	1300.3	267.2	202.0	125.8	99.4	88.6	82.3	79.2	74.6	71.5
82.5°	518.9	421.0	149.1	124.3	80.8	68.4	63.7	59.0	54.4	49.7	48.2
85°	214.4	192.6	91.7	65.2	49.7	40.4	37.3	32.6	28.0	24.9	21.7
87.5°	99.4	82.3	41.9	24.9	17.1	9.3	4.7	1.6	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)