

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: P480923

Luminaire Tested: **IFLD-S-SA2D-750-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480923  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-750-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

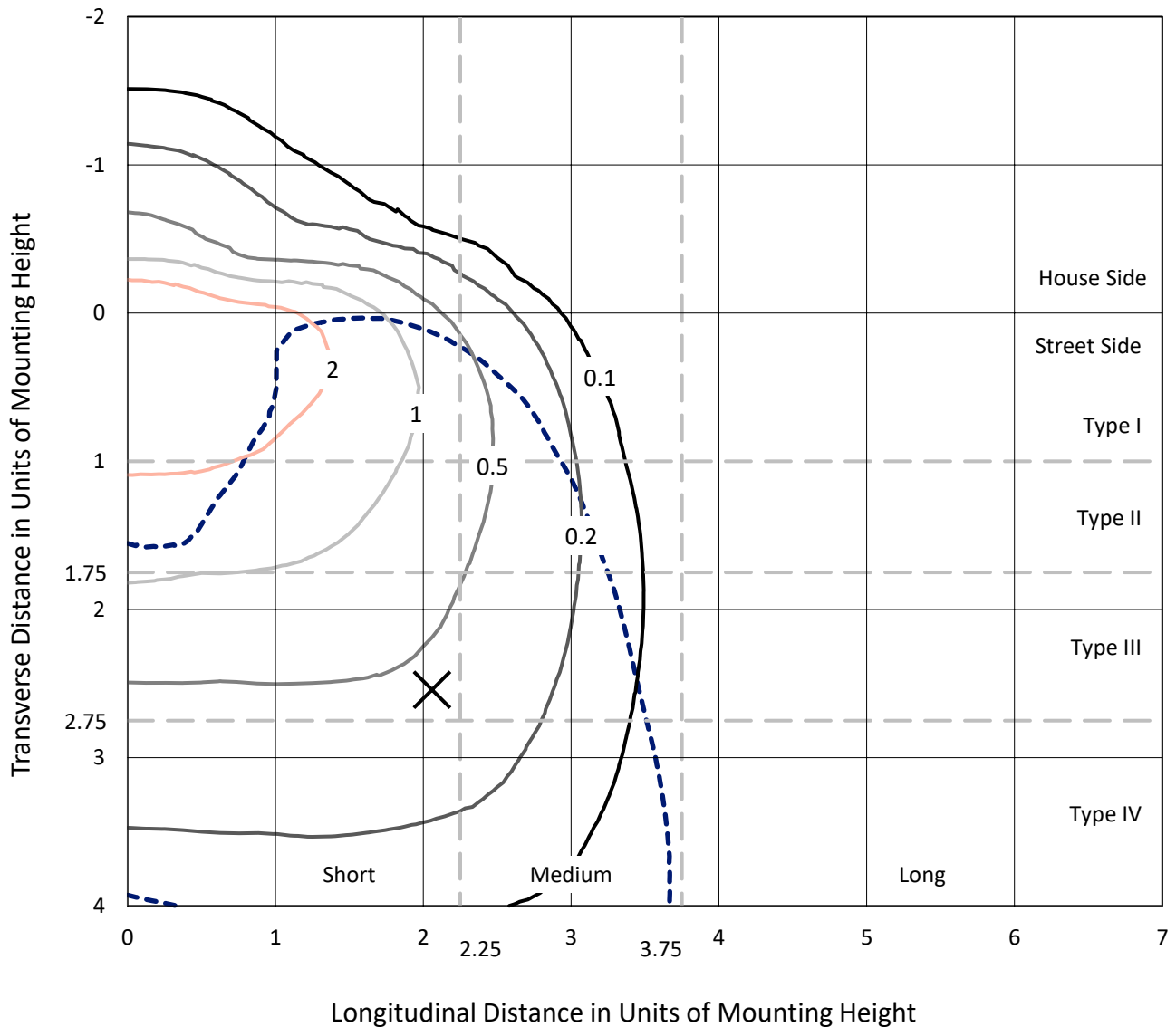
Lumens per Lamp: N/A  
Luminaire Lumens: 15474.2 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9  
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

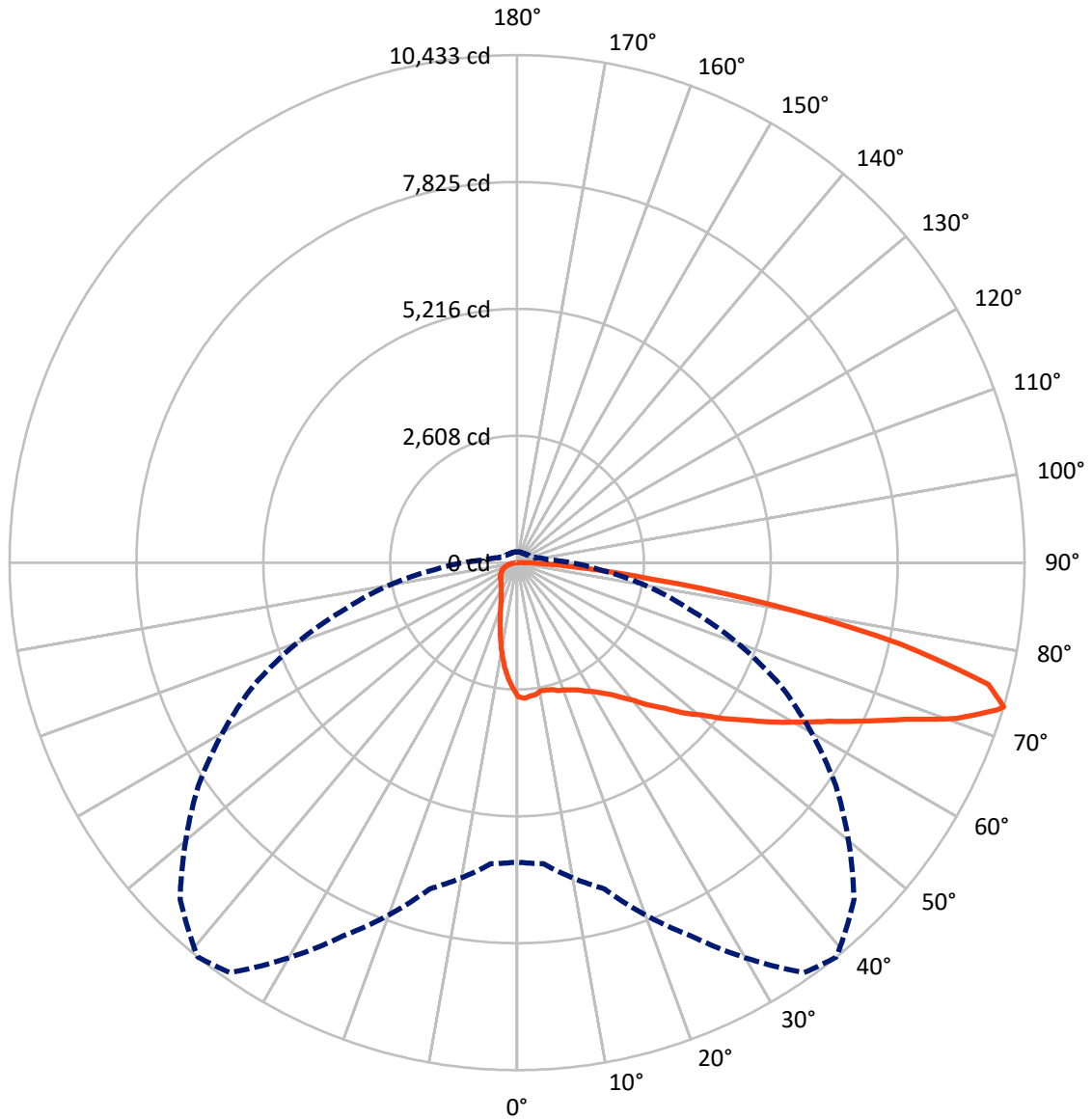
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2175.2	0.0	2175.2
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	13299.0	0.0	13299.0
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	15474.2	0.0	15474.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.1	1.5
10°-20°	607.9	3.9
20°-30°	928.9	6.0
30°-40°	1354.3	8.8
40°-50°	2046.5	13.2
50°-60°	2963.5	19.2
60°-70°	3765.3	24.3
70°-80°	3052.3	19.7
80°-90°	516.4	3.3
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°	15474.2	100.0
0°-180°	15474.2	100.0

**Coefficient of Utilization**



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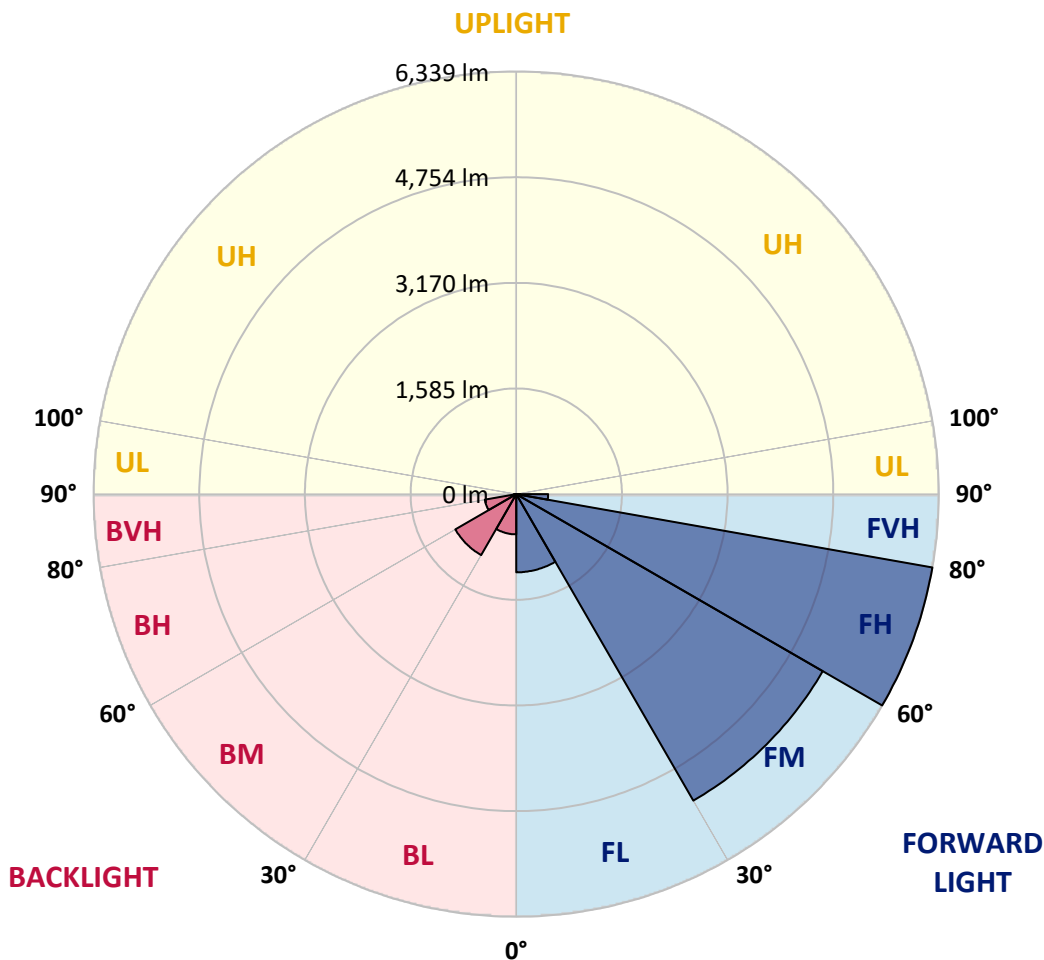
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1172.6	7.6			
FM (30°-60°)	5308.7	34.3			
FH (60°-80°)	6339.2	41.0			G3/7500
FVH (80°-90°)	478.5	3.1			G3/500
BL (0°-30°)	603.2	3.9	B2/1000		
BM (30°-60°)	1055.7	6.8	B2/2500		
BH (60°-80°)	478.4	3.1	B1/500		G1/500
BVH (80°-90°)	37.9	0.2			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5
2.5°	2820.3	2790.9	2796.1	2785.7	2796.1	2792.6	2787.4	2761.4	2787.4	2761.4	2754.5
5°	2782.2	2782.2	2799.5	2773.6	2777.0	2759.7	2777.0	2758.0	2740.7	2697.4	2685.3
7.5°	2770.1	2768.4	2770.1	2733.7	2751.0	2740.7	2723.3	2702.6	2667.9	2640.2	2600.4
10°	2687.0	2704.3	2685.3	2695.6	2709.5	2678.3	2676.6	2671.4	2655.8	2619.5	2595.2
12.5°	2642.0	2671.4	2681.8	2673.1	2685.3	2688.7	2678.3	2671.4	2652.4	2628.1	2558.9
15°	2661.0	2626.4	2655.8	2713.0	2700.8	2709.5	2711.2	2704.3	2695.6	2650.6	2605.6
17.5°	2666.2	2645.4	2707.8	2719.9	2735.5	2766.6	2745.8	2744.1	2711.2	2680.1	2614.3
20°	2678.3	2669.7	2719.9	2783.9	2785.7	2790.9	2801.3	2775.3	2758.0	2704.3	2603.9
22.5°	2723.3	2752.8	2799.5	2827.2	2842.8	2846.3	2846.3	2794.3	2775.3	2732.0	2652.4
25°	2858.4	2827.2	2893.0	2925.9	2903.4	2898.2	2886.1	2839.3	2818.6	2780.5	2674.9
27.5°	2957.1	2955.3	2993.4	3038.4	2977.8	2990.0	2946.7	2932.8	2886.1	2865.3	2714.7
30°	3092.1	3130.2	3128.5	3142.3	3062.7	3076.5	3021.1	2995.2	2969.2	2981.3	2832.4
32.5°	3265.2	3251.4	3273.9	3263.5	3183.9	3196.0	3130.2	3090.4	3099.0	3135.4	2993.4
35°	3376.0	3362.2	3370.9	3370.9	3346.6	3332.8	3305.1	3253.1	3294.7	3362.2	3173.5
37.5°	3495.5	3512.8	3563.0	3552.6	3521.5	3521.5	3518.0	3481.7	3535.3	3701.5	3460.9
40°	3601.1	3647.9	3679.0	3699.8	3736.2	3736.2	3765.6	3744.8	3841.8	4108.4	3812.3
42.5°	3711.9	3713.6	3883.3	3898.9	3980.3	4014.9	4037.4	4054.7	4236.5	4534.3	4188.0
45°	3853.9	3862.5	4011.4	4130.9	4257.3	4269.4	4354.2	4411.4	4634.7	5000.0	4596.6
47.5°	4040.9	4030.5	4189.8	4380.2	4537.8	4620.9	4723.0	4785.3	5060.6	5505.5	5043.3
50°	4286.7	4255.5	4347.3	4646.8	4832.1	4923.8	5105.6	5209.5	5531.5	5988.6	5349.7
52.5°	4586.2	4534.3	4607.0	4934.2	5142.0	5327.2	5500.4	5616.4	5952.2	6362.5	5576.5
55°	4903.1	4795.7	4816.5	5238.9	5538.4	5713.3	5950.5	6071.7	6414.5	6698.4	5803.3
57.5°	5216.4	5148.9	5107.3	5531.5	6011.1	6179.0	6397.2	6554.7	6845.6	6996.2	5995.5
60°	5479.6	5462.3	5394.7	5985.1	6511.4	6655.1	6883.7	6980.6	7200.5	7271.5	5999.0
62.5°	5696.0	5637.1	5744.5	6350.4	7020.4	7183.2	7434.2	7442.9	7598.7	7442.9	5822.4
65°	5865.7	5869.1	6040.5	6791.9	7609.1	7849.7	8052.3	8029.8	7929.4	7340.7	5405.1
67.5°	6019.7	6085.5	6336.6	7276.7	8365.7	8592.5	8817.5	8519.8	8019.4	6862.9	4589.7
70°	6140.9	6206.7	6736.5	7867.0	9257.3	9589.7	9639.9	8713.7	7605.6	5813.7	3462.6
72.5°	6127.1	6246.5	6963.3	8338.0	10048.5	10335.9	9930.8	8168.3	6336.6	4053.0	2020.4
73°	6156.5	6215.4	6944.3	8469.5	10289.1	10432.8	9795.7	7996.9	5976.5	3635.7	1708.8
75°	5588.7	5787.8	6599.7	8254.9	10031.2	10005.2	9020.1	6663.8	4248.6	1909.6	827.6
77.5°	4134.4	4260.7	5200.8	6788.4	8234.1	8067.9	6804.0	4259.0	2017.0	708.1	446.7
80°	2020.4	2119.1	2756.2	3919.7	5384.4	5398.2	4222.7	2216.1	863.9	399.9	304.7
82.5°	1009.4	1068.2	1324.4	1722.6	2648.9	2775.3	2141.6	1260.4	535.0	226.8	173.1
85°	659.6	701.2	815.4	843.1	1123.6	1185.9	997.2	983.4	348.0	122.9	140.2
87.5°	438.0	444.9	500.3	425.9	450.1	432.8	481.3	619.8	102.1	51.9	38.1
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°	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5
2.5°	2745.8	2721.6	2695.6	2659.3	2633.3	2593.5	2557.1	2541.6	2538.1	2539.8	2522.5
5°	2674.9	2640.2	2588.3	2513.9	2470.6	2404.8	2349.4	2319.9	2288.8	2294.0	2280.1
7.5°	2576.2	2538.1	2458.5	2371.9	2264.5	2171.1	2119.1	2046.4	2004.9	1973.7	1991.0
10°	2545.0	2479.2	2359.8	2240.3	2074.1	1951.2	1831.7	1748.6	1691.5	1636.1	1660.3
12.5°	2529.4	2463.6	2297.4	2120.8	1906.2	1719.2	1551.2	1449.1	1367.7	1319.3	1338.3
15°	2515.6	2434.2	2238.6	1989.3	1748.6	1502.8	1314.1	1179.0	1101.1	1054.4	1059.6
17.5°	2534.6	2418.6	2152.0	1861.2	1575.5	1312.3	1102.8	962.6	883.0	853.5	846.6
20°	2515.6	2401.3	2067.2	1733.0	1402.4	1130.5	929.7	813.7	758.3	734.1	728.9
22.5°	2522.5	2359.8	1978.9	1591.1	1241.3	978.2	813.7	725.4	682.1	670.0	673.5
25°	2555.4	2335.5	1890.6	1435.3	1082.1	865.7	739.3	671.7	640.6	628.5	631.9
27.5°	2579.6	2356.3	1810.9	1288.1	947.0	765.2	676.9	631.9	611.2	602.5	600.8
30°	2640.2	2368.4	1733.0	1156.5	836.2	699.4	633.7	597.3	583.4	578.3	576.5
32.5°	2730.3	2390.9	1643.0	1035.3	754.8	637.1	599.0	567.9	564.4	559.2	560.9
35°	2877.4	2468.8	1542.6	931.4	676.9	595.6	562.7	541.9	541.9	541.9	547.1
37.5°	3088.6	2577.9	1452.6	832.8	626.7	559.2	531.5	524.6	521.1	526.3	529.8
40°	3360.5	2709.5	1379.8	754.8	583.4	535.0	510.7	507.3	505.5	503.8	507.3
42.5°	3658.2	2877.4	1317.5	694.3	552.3	509.0	491.7	488.2	481.3	484.8	490.0
45°	3954.3	3085.2	1262.1	645.8	531.5	495.2	470.9	469.2	465.7	464.0	472.6
47.5°	4283.2	3289.5	1244.8	616.3	515.9	474.4	457.1	455.3	444.9	443.2	450.1
50°	4539.5	3440.1	1263.9	602.5	493.4	458.8	446.7	438.0	429.4	420.7	420.7
52.5°	4716.1	3544.0	1277.7	592.1	481.3	438.0	422.4	419.0	410.3	401.7	398.2
55°	4875.4	3606.3	1281.2	593.8	469.2	413.8	403.4	401.7	396.5	382.6	379.2
57.5°	4929.0	3580.3	1211.9	578.3	462.3	398.2	384.3	387.8	380.9	368.8	367.0
60°	4923.8	3400.3	1054.4	557.5	446.7	380.9	363.6	374.0	374.0	360.1	358.4
62.5°	4624.3	2984.8	862.2	517.7	429.4	363.6	344.5	360.1	365.3	356.6	354.9
65°	4002.8	2430.8	720.2	477.8	403.4	344.5	325.5	342.8	351.5	348.0	346.3
67.5°	3312.0	1859.4	599.0	425.9	370.5	318.6	303.0	315.1	320.3	322.0	323.8
70°	2340.7	1237.9	500.3	368.8	325.5	290.9	273.5	275.3	273.5	278.7	278.7
72.5°	1272.5	713.3	406.9	313.4	280.5	252.8	240.7	232.0	232.0	230.3	230.3
73°	1089.0	640.6	387.8	304.7	268.4	245.8	232.0	225.1	225.1	223.3	221.6
75°	611.2	469.2	332.4	261.4	232.0	214.7	204.3	193.9	192.2	192.2	192.2
77.5°	401.7	365.3	264.9	209.5	187.0	171.4	167.9	157.5	157.5	157.5	155.8
80°	301.2	287.4	204.3	159.3	143.7	131.6	128.1	121.2	119.5	112.5	114.3
82.5°	200.8	226.8	148.9	112.5	97.0	90.0	90.0	88.3	83.1	74.4	74.4
85°	159.3	185.2	107.3	69.3	57.1	48.5	50.2	48.5	46.7	38.1	36.4
87.5°	29.4	74.4	31.2	19.0	13.9	8.7	8.7	5.2	3.5	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)