

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: P480828

Luminaire Tested: **IFLD-M-SA4A-730-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480828  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-730-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

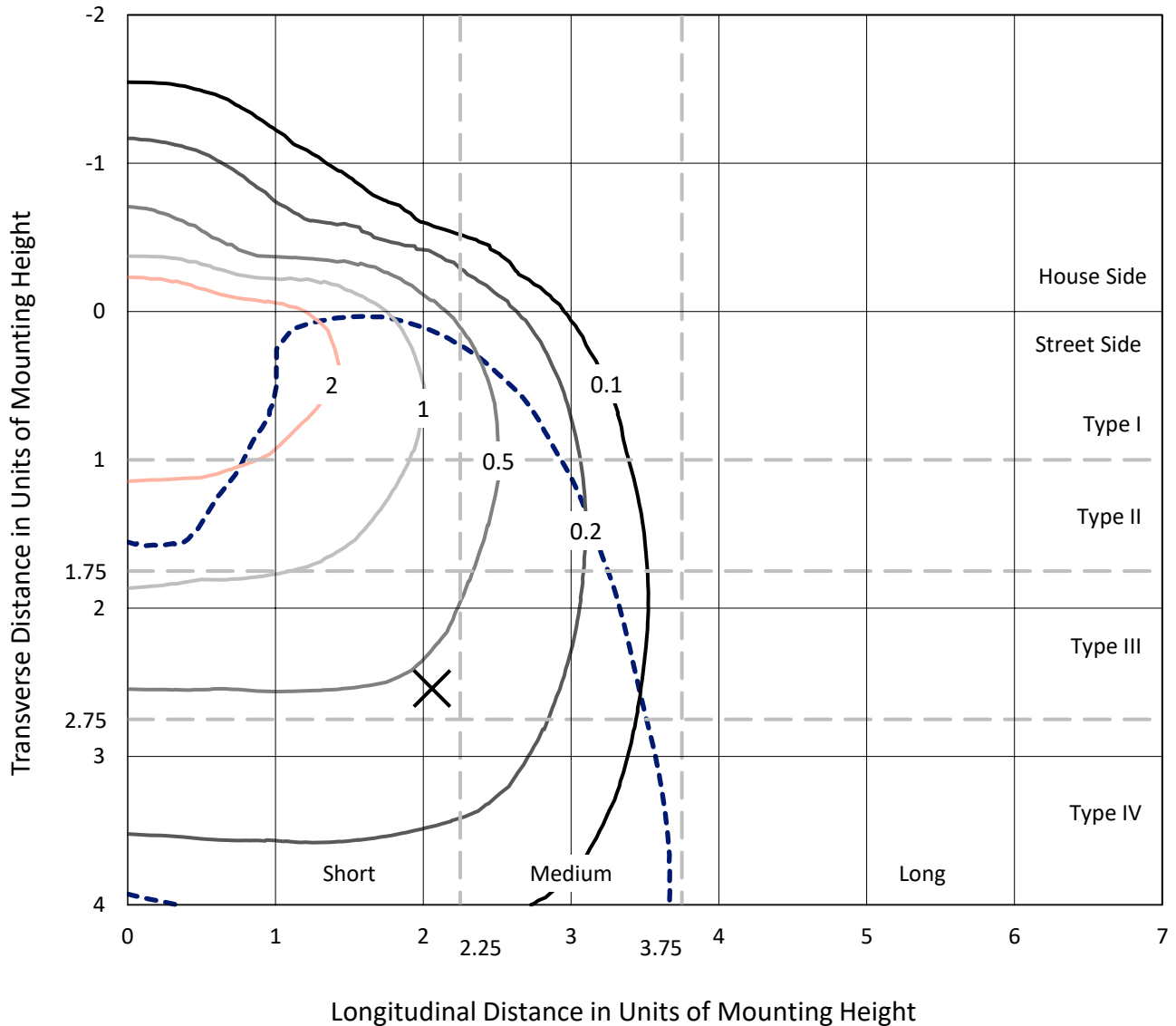
Lumens per Lamp: N/A  
Luminaire Lumens: 16266.2 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

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

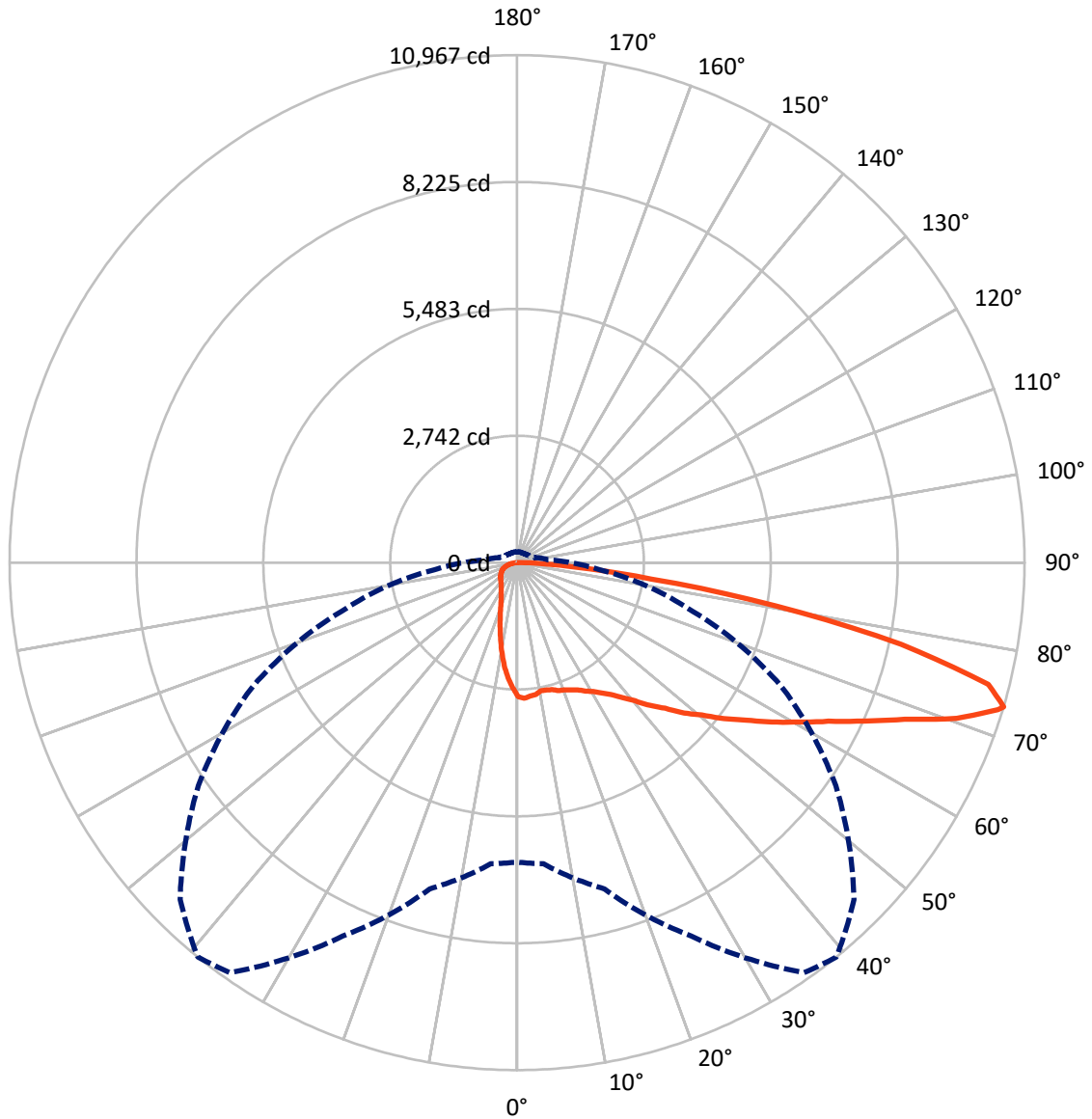
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2286.6	0.0	2286.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	13979.6	0.0	13979.6
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	16266.2	0.0	16266.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.4	1.5
10°-20°	639.0	3.9
20°-30°	976.4	6.0
30°-40°	1423.6	8.8
40°-50°	2151.3	13.2
50°-60°	3115.2	19.2
60°-70°	3958.0	24.3
70°-80°	3208.5	19.7
80°-90°	542.9	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°	16266.2	100.0
0°-180°	16266.2	100.0

**Coefficient of Utilization**



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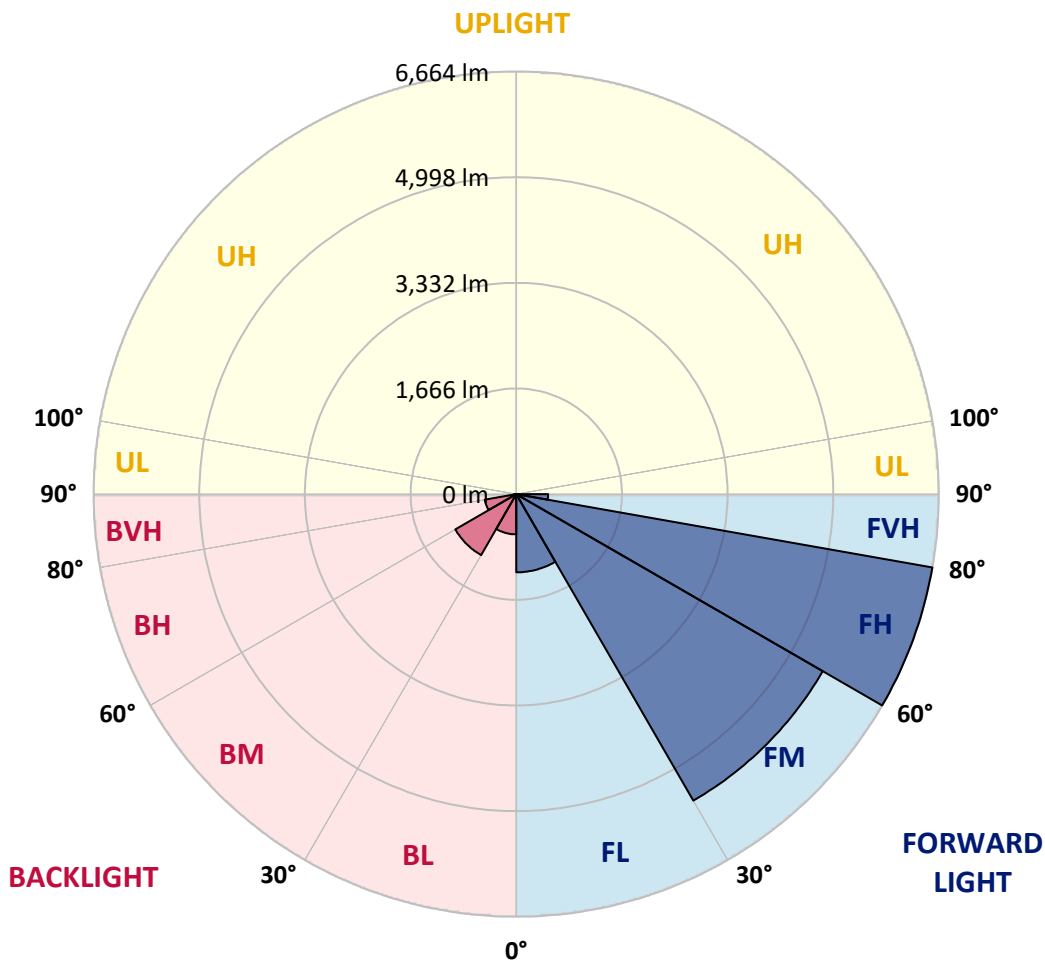
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.6	7.6			
FM (30°-60°)	5580.3	34.3			
FH (60°-80°)	6663.6	41.0			G3/7500
FVH (80°-90°)	503.0	3.1			G4/750
BL (0°-30°)	634.1	3.9	B2/1000		
BM (30°-60°)	1109.7	6.8	B2/2500		
BH (60°-80°)	502.9	3.1	B2/1000		G2/1000
BVH (80°-90°)	39.8	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5
2.5°	2964.6	2933.7	2939.2	2928.2	2939.2	2935.5	2930.1	2902.8	2930.1	2902.8	2895.5
5°	2924.6	2924.6	2942.8	2915.5	2919.1	2900.9	2919.1	2899.1	2880.9	2835.4	2822.7
7.5°	2911.9	2910.0	2911.9	2873.6	2891.8	2880.9	2862.7	2840.9	2804.5	2775.4	2733.5
10°	2824.5	2842.7	2822.7	2833.6	2848.2	2815.4	2813.6	2808.1	2791.7	2753.5	2728.0
12.5°	2777.2	2808.1	2819.0	2809.9	2822.7	2826.3	2815.4	2808.1	2788.1	2762.6	2689.8
15°	2797.2	2760.8	2791.7	2851.8	2839.1	2848.2	2850.0	2842.7	2833.6	2786.3	2739.0
17.5°	2802.7	2780.8	2846.3	2859.1	2875.5	2908.2	2886.4	2884.6	2850.0	2817.2	2748.1
20°	2815.4	2806.3	2859.1	2926.4	2928.2	2933.7	2944.6	2917.3	2899.1	2842.7	2737.1
22.5°	2862.7	2893.7	2942.8	2971.9	2988.3	2991.9	2991.9	2937.3	2917.3	2871.8	2788.1
25°	3004.7	2971.9	3041.1	3075.6	3052.0	3046.5	3033.8	2984.6	2962.8	2922.8	2811.8
27.5°	3108.4	3106.6	3146.6	3193.9	3130.2	3143.0	3097.5	3082.9	3033.8	3011.9	2853.6
30°	3250.4	3290.4	3288.6	3303.1	3219.4	3234.0	3175.7	3148.4	3121.1	3133.9	2977.4
32.5°	3432.3	3417.8	3441.4	3430.5	3346.8	3359.6	3290.4	3248.5	3257.6	3295.9	3146.6
35°	3548.8	3534.3	3543.4	3543.4	3517.9	3503.3	3474.2	3419.6	3463.3	3534.3	3335.9
37.5°	3674.4	3692.6	3745.4	3734.5	3701.7	3701.7	3698.1	3659.8	3716.3	3891.0	3638.0
40°	3785.4	3834.5	3867.3	3889.1	3927.4	3927.4	3958.3	3936.5	4038.4	4318.6	4007.4
42.5°	3901.9	3903.7	4082.1	4098.4	4184.0	4220.4	4244.0	4262.2	4453.3	4766.3	4402.4
45°	4051.1	4060.2	4216.7	4342.3	4475.2	4487.9	4577.1	4637.1	4871.9	5255.9	4831.9
47.5°	4247.7	4236.7	4404.2	4604.4	4770.0	4857.3	4964.7	5030.2	5319.6	5787.3	5301.4
50°	4506.1	4473.3	4569.8	4884.6	5079.4	5175.8	5366.9	5476.1	5814.6	6295.1	5623.5
52.5°	4820.9	4766.3	4842.8	5186.7	5405.1	5599.9	5781.8	5903.8	6256.8	6688.2	5861.9
55°	5154.0	5041.1	5063.0	5507.0	5821.9	6005.7	6255.0	6382.4	6742.8	7041.2	6100.3
57.5°	5483.4	5412.4	5368.7	5814.6	6318.7	6495.3	6724.6	6890.2	7195.9	7354.2	6302.3
60°	5760.0	5741.8	5670.8	6291.4	6844.7	6995.7	7236.0	7337.9	7569.0	7643.6	6306.0
62.5°	5987.5	5925.6	6038.5	6675.4	7379.7	7550.8	7814.7	7823.8	7987.6	7823.8	6120.4
65°	6165.8	6169.5	6349.7	7139.5	7998.5	8251.5	8464.4	8440.7	8335.2	7716.4	5681.8
67.5°	6327.8	6397.0	6660.9	7649.1	8793.8	9032.2	9268.8	8955.8	8429.8	7214.1	4824.6
70°	6455.2	6524.4	7081.3	8269.7	9731.0	10080.5	10133.2	9159.6	7994.9	6111.3	3639.8
72.5°	6440.7	6566.2	7319.7	8764.7	10562.7	10864.9	10439.0	8586.3	6660.9	4260.4	2123.8
73°	6471.6	6533.5	7299.7	8903.0	10815.7	10966.8	10297.0	8406.2	6282.3	3821.8	1796.2
75°	5874.7	6084.0	6937.5	8677.3	10544.5	10517.2	9481.7	7004.8	4466.1	2007.4	869.9
77.5°	4345.9	4478.8	5467.0	7135.9	8655.5	8480.8	7152.2	4477.0	2120.2	744.3	469.5
80°	2123.8	2227.6	2897.3	4120.3	5659.9	5674.5	4438.8	2329.5	908.1	420.4	320.3
82.5°	1061.0	1122.9	1392.2	1810.8	2784.5	2917.3	2251.2	1324.9	562.4	238.4	182.0
85°	693.4	737.1	857.2	886.3	1181.1	1246.6	1048.3	1033.7	365.8	129.2	147.4
87.5°	460.4	467.7	526.0	447.7	473.2	455.0	505.9	651.5	107.4	54.6	40.0
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°	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5
2.5°	2886.4	2860.9	2833.6	2795.4	2768.1	2726.2	2688.0	2671.6	2668.0	2669.8	2651.6
5°	2811.8	2775.4	2720.8	2642.5	2597.0	2527.9	2469.6	2438.7	2405.9	2411.4	2396.8
7.5°	2708.0	2668.0	2584.3	2493.3	2380.4	2282.2	2227.6	2151.1	2107.5	2074.7	2092.9
10°	2675.3	2606.1	2480.5	2355.0	2180.2	2051.0	1925.5	1838.1	1778.1	1719.8	1745.3
12.5°	2658.9	2589.7	2415.0	2229.4	2003.7	1807.2	1630.6	1523.3	1437.7	1386.8	1406.8
15°	2644.3	2558.8	2353.1	2091.1	1838.1	1579.7	1381.3	1239.4	1157.5	1108.3	1113.8
17.5°	2664.3	2542.4	2262.1	1956.4	1656.1	1379.5	1159.3	1011.9	928.2	897.2	889.9
20°	2644.3	2524.2	2173.0	1821.7	1474.1	1188.4	977.3	855.4	797.1	771.6	766.2
22.5°	2651.6	2480.5	2080.2	1672.5	1304.9	1028.2	855.4	762.5	717.0	704.3	707.9
25°	2686.2	2455.1	1987.3	1508.7	1137.4	910.0	777.1	706.1	673.4	660.6	664.3
27.5°	2711.7	2476.9	1903.6	1354.0	995.5	804.4	711.6	664.3	642.4	633.3	631.5
30°	2775.4	2489.6	1821.7	1215.7	879.0	735.2	666.1	627.9	613.3	607.8	606.0
32.5°	2870.0	2513.3	1727.1	1088.3	793.5	669.7	629.7	596.9	593.3	587.8	589.7
35°	3024.7	2595.2	1621.5	979.1	711.6	626.0	591.5	569.6	569.6	569.6	575.1
37.5°	3246.7	2709.8	1526.9	875.4	658.8	587.8	558.7	551.4	547.8	553.3	556.9
40°	3532.4	2848.2	1450.5	793.5	613.3	562.4	536.9	533.2	531.4	529.6	533.2
42.5°	3845.5	3024.7	1385.0	729.8	580.6	535.1	516.9	513.2	505.9	509.6	515.0
45°	4156.7	3243.1	1326.7	678.8	558.7	520.5	495.0	493.2	489.6	487.7	496.8
47.5°	4502.5	3457.8	1308.5	647.9	542.3	498.7	480.5	478.6	467.7	465.9	473.2
50°	4771.8	3616.2	1328.5	633.3	518.7	482.3	469.5	460.4	451.3	442.2	442.2
52.5°	4957.4	3725.4	1343.1	622.4	505.9	460.4	444.1	440.4	431.3	422.2	418.6
55°	5124.9	3790.9	1346.7	624.2	493.2	435.0	424.0	422.2	416.8	402.2	398.6
57.5°	5181.3	3763.6	1273.9	607.8	485.9	418.6	404.0	407.7	400.4	387.6	385.8
60°	5175.8	3574.3	1108.3	586.0	469.5	400.4	382.2	393.1	393.1	378.5	376.7
62.5°	4861.0	3137.5	906.3	544.2	451.3	382.2	362.2	378.5	384.0	374.9	373.1
65°	4207.6	2555.2	757.1	502.3	424.0	362.2	342.1	360.3	369.4	365.8	364.0
67.5°	3481.5	1954.6	629.7	447.7	389.5	334.9	318.5	331.2	336.7	338.5	340.3
70°	2460.5	1301.2	526.0	387.6	342.1	305.7	287.5	289.4	287.5	293.0	293.0
72.5°	1337.6	749.8	427.7	329.4	294.8	265.7	253.0	243.9	243.9	242.0	242.0
73°	1144.7	673.4	407.7	320.3	282.1	258.4	243.9	236.6	236.6	234.8	232.9
75°	642.4	493.2	349.4	274.8	243.9	225.7	214.7	203.8	202.0	202.0	202.0
77.5°	422.2	384.0	278.4	220.2	196.6	180.2	176.5	165.6	165.6	165.6	163.8
80°	316.7	302.1	214.7	167.4	151.1	138.3	134.7	127.4	125.6	118.3	120.1
82.5°	211.1	238.4	156.5	118.3	101.9	94.6	94.6	92.8	87.4	78.3	78.3
85°	167.4	194.7	112.8	72.8	60.1	51.0	52.8	51.0	49.1	40.0	38.2
87.5°	30.9	78.3	32.8	20.0	14.6	9.1	9.1	5.5	3.6	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)