

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: P480906

Luminaire Tested: **IFLD-M-SA4A-740-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480906  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-740-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

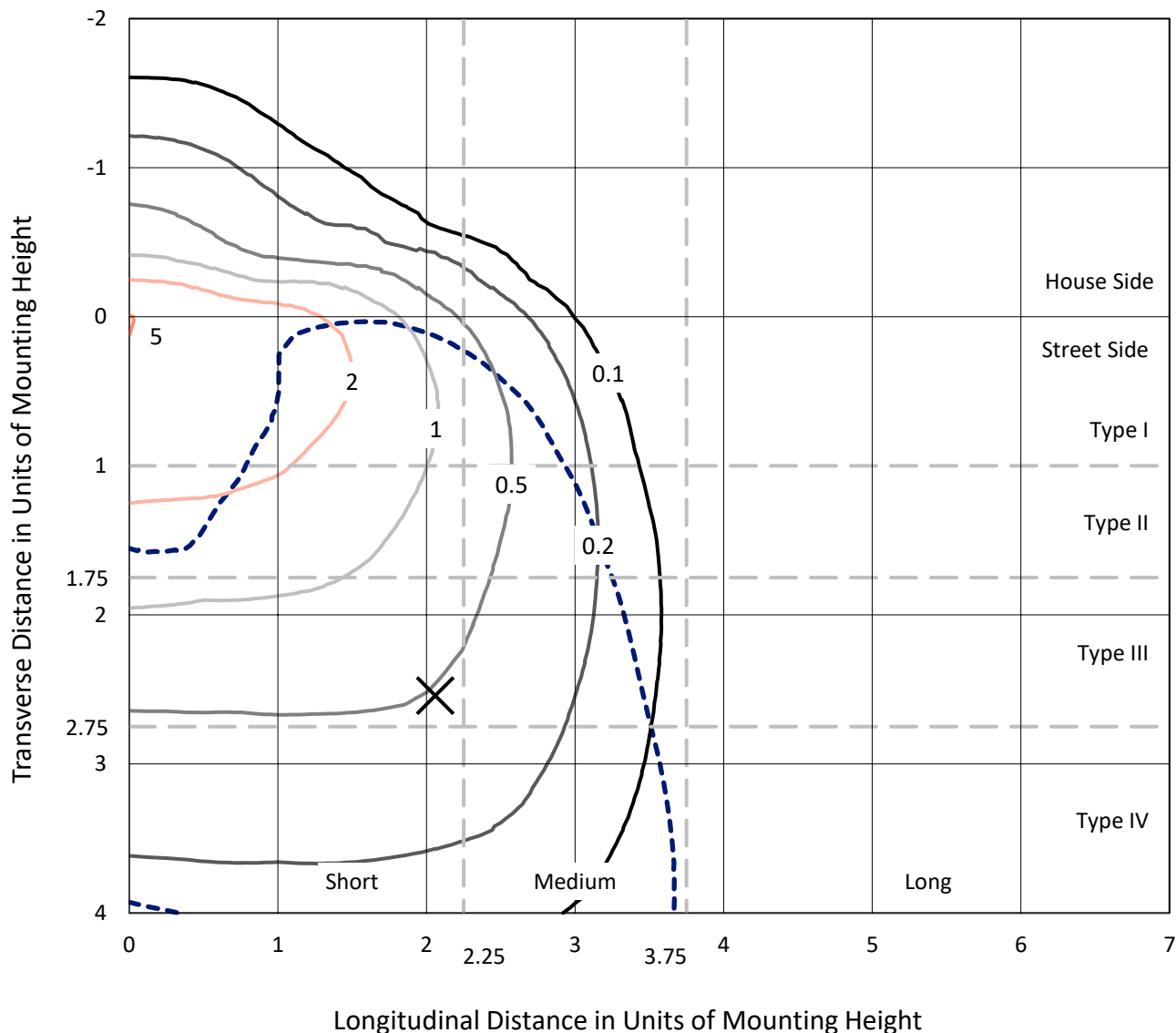
Lumens per Lamp: N/A  
Luminaire Lumens: 17863.1 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

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

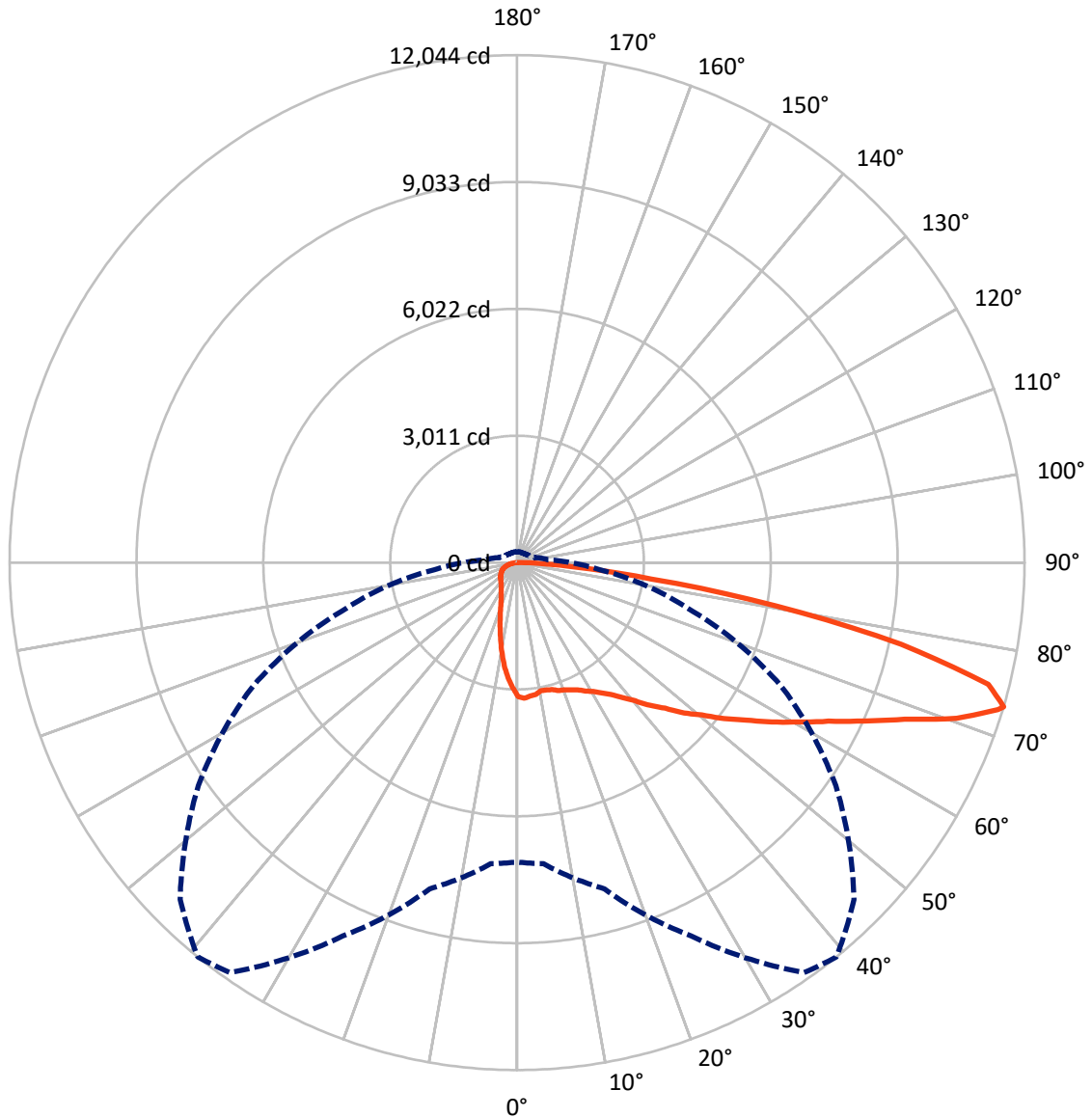
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2511.1	0.0	2511.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	15352.1	0.0	15352.1
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	17863.1	0.0	17863.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.0	1.5
10°-20°	701.7	3.9
20°-30°	1072.3	6.0
30°-40°	1563.4	8.8
40°-50°	2362.5	13.2
50°-60°	3421.0	19.2
60°-70°	4346.5	24.3
70°-80°	3523.5	19.7
80°-90°	596.2	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°	17863.1	100.0
0°-180°	17863.1	100.0

**Coefficient of Utilization**



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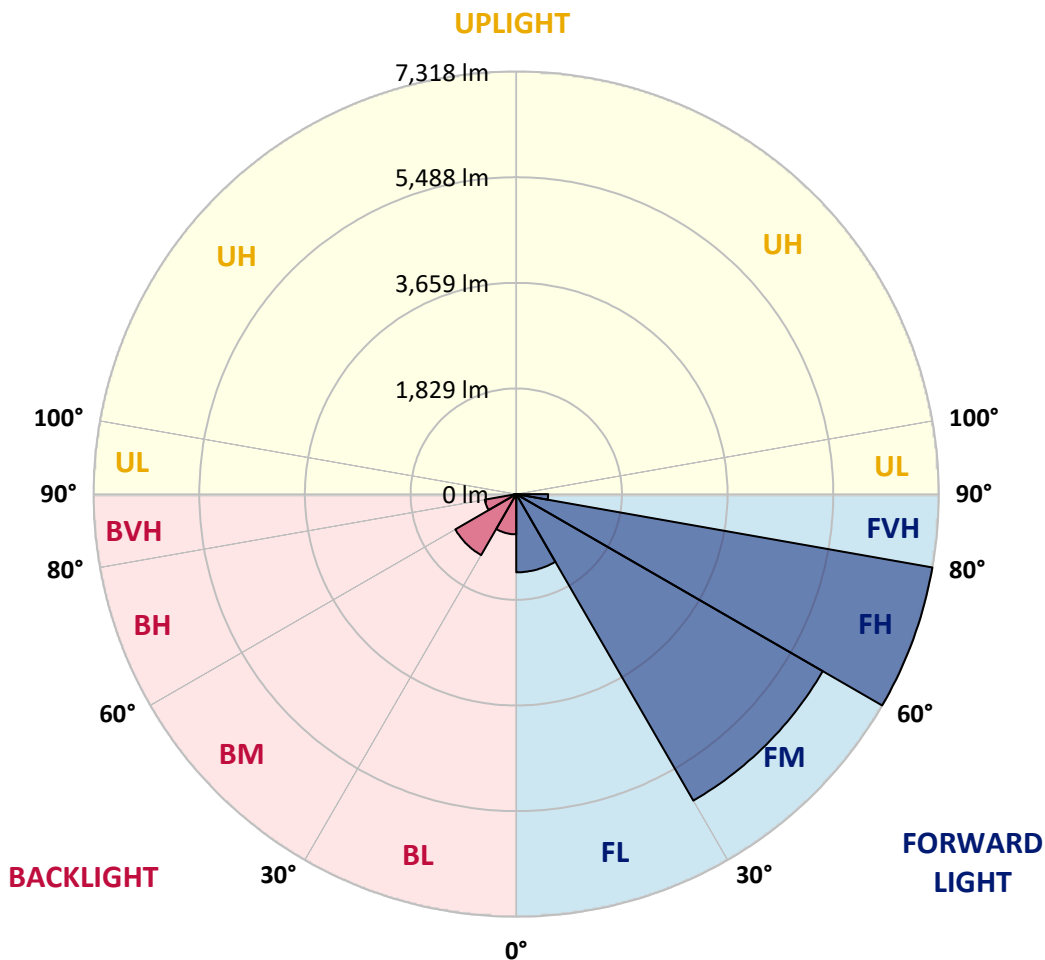
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.6	7.6			
FM (30°-60°)	6128.2	34.3			
FH (60°-80°)	7317.8	41.0			G3/7500
FVH (80°-90°)	552.4	3.1			G4/750
BL (0°-30°)	696.4	3.9	B2/1000		
BM (30°-60°)	1218.7	6.8	B2/2500		
BH (60°-80°)	552.3	3.1	B2/1000		G2/1000
BVH (80°-90°)	43.7	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°	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7
2.5°	3255.7	3221.7	3227.7	3215.7	3227.7	3223.7	3217.7	3187.7	3217.7	3187.7	3179.7
5°	3211.7	3211.7	3231.7	3201.7	3205.7	3185.7	3205.7	3183.7	3163.8	3113.8	3099.8
7.5°	3197.7	3195.7	3197.7	3155.8	3175.7	3163.8	3143.8	3119.8	3079.8	3047.8	3001.9
10°	3101.8	3121.8	3099.8	3111.8	3127.8	3091.8	3089.8	3083.8	3065.8	3023.9	2995.9
12.5°	3049.8	3083.8	3095.8	3085.8	3099.8	3103.8	3091.8	3083.8	3061.8	3033.8	2953.9
15°	3071.8	3031.8	3065.8	3131.8	3117.8	3127.8	3129.8	3121.8	3111.8	3059.8	3007.9
17.5°	3077.8	3053.8	3125.8	3139.8	3157.8	3193.7	3169.7	3167.8	3129.8	3093.8	3017.9
20°	3091.8	3081.8	3139.8	3213.7	3215.7	3221.7	3233.7	3203.7	3183.7	3121.8	3005.9
22.5°	3143.8	3177.7	3231.7	3263.7	3281.7	3285.7	3285.7	3225.7	3203.7	3153.8	3061.8
25°	3299.7	3263.7	3339.6	3377.6	3351.6	3345.6	3331.6	3277.7	3253.7	3209.7	3087.8
27.5°	3413.6	3411.6	3455.5	3507.5	3437.6	3451.5	3401.6	3385.6	3331.6	3307.7	3133.8
30°	3569.5	3613.4	3611.4	3627.4	3535.5	3551.5	3487.5	3457.5	3427.6	3441.6	3269.7
32.5°	3769.3	3753.3	3779.3	3767.3	3675.4	3689.4	3613.4	3567.5	3577.5	3619.4	3455.5
35°	3897.2	3881.2	3891.2	3891.2	3863.3	3847.3	3815.3	3755.3	3803.3	3881.2	3663.4
37.5°	4035.1	4055.1	4113.1	4101.1	4065.1	4065.1	4061.1	4019.1	4081.1	4273.0	3995.2
40°	4157.0	4211.0	4247.0	4271.0	4312.9	4312.9	4346.9	4322.9	4434.9	4742.6	4400.9
42.5°	4285.0	4287.0	4482.8	4500.8	4594.7	4634.7	4660.7	4680.7	4890.5	5234.3	4834.6
45°	4448.8	4458.8	4630.7	4768.6	4914.5	4928.5	5026.4	5092.4	5350.2	5771.9	5306.2
47.5°	4664.7	4652.7	4836.6	5056.4	5238.3	5334.2	5452.1	5524.1	5841.9	6355.5	5821.9
50°	4948.5	4912.5	5018.4	5364.2	5578.0	5684.0	5893.8	6013.7	6385.5	6913.1	6175.6
52.5°	5294.2	5234.3	5318.2	5696.0	5935.8	6149.6	6349.5	6483.4	6871.1	7344.8	6437.4
55°	5660.0	5536.1	5560.1	6047.7	6393.5	6595.3	6869.1	7009.0	7404.7	7732.5	6699.2
57.5°	6021.7	5943.8	5895.8	6385.5	6939.1	7132.9	7384.8	7566.6	7902.4	8076.3	6921.1
60°	6325.5	6305.5	6227.6	6909.1	7516.7	7682.5	7946.4	8058.3	8312.1	8394.0	6925.1
62.5°	6575.3	6507.4	6631.3	7330.8	8104.2	8292.1	8581.9	8591.9	8771.8	8591.9	6721.2
65°	6771.2	6775.2	6973.1	7840.4	8783.8	9061.6	9295.4	9269.4	9153.5	8474.0	6239.6
67.5°	6949.1	7025.0	7314.8	8400.0	9657.1	9919.0	10178.8	9835.0	9257.4	7922.4	5298.2
70°	7089.0	7164.9	7776.5	9081.6	10686.4	11070.1	11128.1	10058.9	8779.8	6711.2	3997.2
72.5°	7073.0	7210.9	8038.3	9625.2	11599.8	11931.5	11463.9	9429.3	7314.8	4678.7	2332.3
73°	7107.0	7174.9	8016.3	9777.1	11877.6	12043.5	11308.0	9231.4	6899.1	4197.0	1972.6
75°	6451.4	6681.3	7618.6	9529.2	11579.8	11549.8	10412.6	7692.5	4904.5	2204.4	955.3
77.5°	4772.6	4918.5	6003.7	7836.4	9505.3	9313.4	7854.4	4916.5	2328.3	817.4	515.6
80°	2332.3	2446.3	3181.7	4524.8	6215.6	6231.6	4874.5	2558.2	997.3	461.7	351.8
82.5°	1165.2	1233.1	1528.9	1988.6	3057.8	3203.7	2472.2	1455.0	617.6	261.8	199.9
85°	761.5	809.4	941.3	973.3	1297.1	1369.0	1151.2	1135.2	401.7	141.9	161.9
87.5°	505.6	513.6	577.6	491.7	519.6	499.6	555.6	715.5	117.9	60.0	44.0
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°	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7
2.5°	3169.7	3141.8	3111.8	3069.8	3039.8	2993.9	2951.9	2933.9	2929.9	2931.9	2911.9
5°	3087.8	3047.8	2987.9	2901.9	2852.0	2776.0	2712.1	2678.1	2642.1	2648.1	2632.1
7.5°	2973.9	2929.9	2838.0	2738.1	2614.1	2506.2	2446.3	2362.3	2314.4	2278.4	2298.4
10°	2937.9	2862.0	2724.1	2586.2	2394.3	2252.4	2114.5	2018.6	1952.6	1888.7	1916.6
12.5°	2919.9	2844.0	2652.1	2448.3	2200.4	1984.6	1790.7	1672.8	1578.9	1522.9	1544.9
15°	2903.9	2810.0	2584.2	2296.4	2018.6	1734.8	1516.9	1361.0	1271.1	1217.1	1223.1
17.5°	2925.9	2792.0	2484.2	2148.5	1818.7	1514.9	1273.1	1111.2	1019.3	985.3	977.3
20°	2903.9	2772.0	2386.3	2000.6	1618.9	1305.1	1073.2	939.3	875.4	847.4	841.4
22.5°	2911.9	2724.1	2284.4	1836.7	1433.0	1129.2	939.3	837.4	787.4	773.5	777.4
25°	2949.9	2696.1	2182.5	1656.8	1249.1	999.3	853.4	775.4	739.5	725.5	729.5
27.5°	2977.9	2720.1	2090.5	1486.9	1093.2	883.4	781.4	729.5	705.5	695.5	693.5
30°	3047.8	2734.1	2000.6	1335.1	965.3	807.4	731.5	689.5	673.5	667.5	665.5
32.5°	3151.8	2760.0	1896.7	1195.2	871.4	735.5	691.5	655.5	651.5	645.5	647.5
35°	3321.6	2850.0	1780.7	1075.2	781.4	687.5	649.5	625.6	625.6	625.6	631.6
37.5°	3565.5	2975.9	1676.8	961.3	723.5	645.5	613.6	605.6	601.6	607.6	611.6
40°	3879.2	3127.8	1592.9	871.4	673.5	617.6	589.6	585.6	583.6	581.6	585.6
42.5°	4223.0	3321.6	1520.9	801.4	637.5	587.6	567.6	563.6	555.6	559.6	565.6
45°	4564.8	3561.5	1457.0	745.5	613.6	571.6	543.6	541.6	537.6	535.6	545.6
47.5°	4944.5	3797.3	1437.0	711.5	595.6	547.6	527.6	525.6	513.6	511.6	519.6
50°	5240.3	3971.2	1459.0	695.5	569.6	529.6	515.6	505.6	495.6	485.7	485.7
52.5°	5444.1	4091.1	1475.0	683.5	555.6	505.6	487.7	483.7	473.7	463.7	459.7
55°	5628.0	4163.0	1479.0	685.5	541.6	477.7	465.7	463.7	457.7	441.7	437.7
57.5°	5690.0	4133.1	1399.0	667.5	533.6	459.7	443.7	447.7	439.7	425.7	423.7
60°	5684.0	3925.2	1217.1	643.5	515.6	439.7	419.7	431.7	431.7	415.7	413.7
62.5°	5338.2	3445.6	995.3	597.6	495.6	419.7	397.7	415.7	421.7	411.7	409.7
65°	4620.7	2806.0	831.4	551.6	465.7	397.7	375.7	395.7	405.7	401.7	399.7
67.5°	3823.3	2146.5	691.5	491.7	427.7	367.7	349.8	363.7	369.7	371.7	373.7
70°	2702.1	1429.0	577.6	425.7	375.7	335.8	315.8	317.8	315.8	321.8	321.8
72.5°	1469.0	823.4	469.7	361.7	323.8	291.8	277.8	267.8	267.8	265.8	265.8
73°	1257.1	739.5	447.7	351.8	309.8	283.8	267.8	259.8	259.8	257.8	255.8
75°	705.5	541.6	383.7	301.8	267.8	247.8	235.8	223.8	221.8	221.8	221.8
77.5°	463.7	421.7	305.8	241.8	215.8	197.9	193.9	181.9	181.9	181.9	179.9
80°	347.8	331.8	235.8	183.9	165.9	151.9	147.9	139.9	137.9	129.9	131.9
82.5°	231.8	261.8	171.9	129.9	111.9	103.9	103.9	101.9	95.9	85.9	85.9
85°	183.9	213.8	123.9	79.9	66.0	56.0	58.0	56.0	54.0	44.0	42.0
87.5°	34.0	85.9	36.0	22.0	16.0	10.0	10.0	6.0	4.0	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)