

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: P636885

Luminaire Tested: **IFLD-S-SA2D-930-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636885  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-930-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7377.2 lumens  
Efficiency: N/A  
Efficacy: 59.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

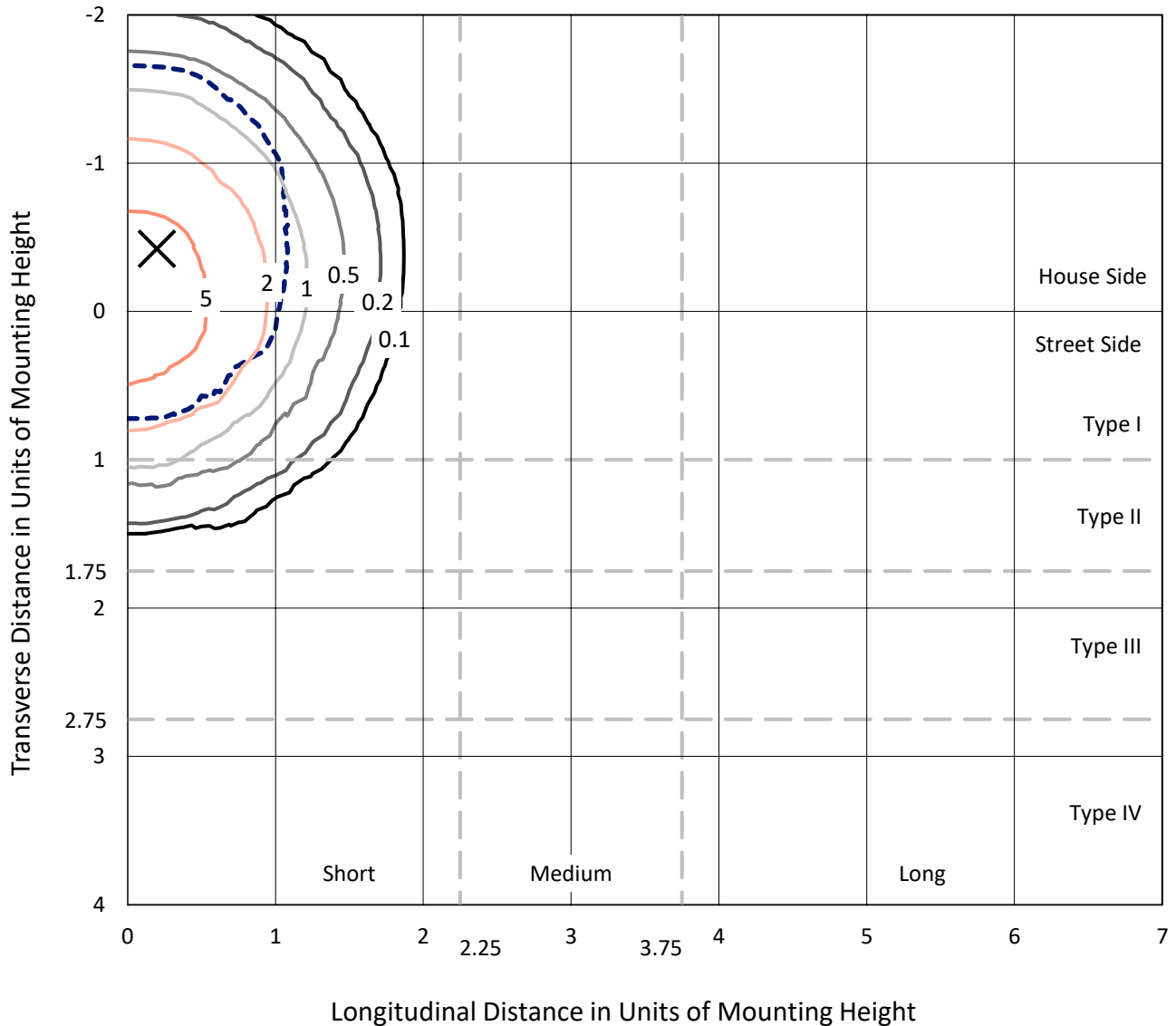
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P636885  
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### Iso-Footcandle Lines of Horizontal Illumination

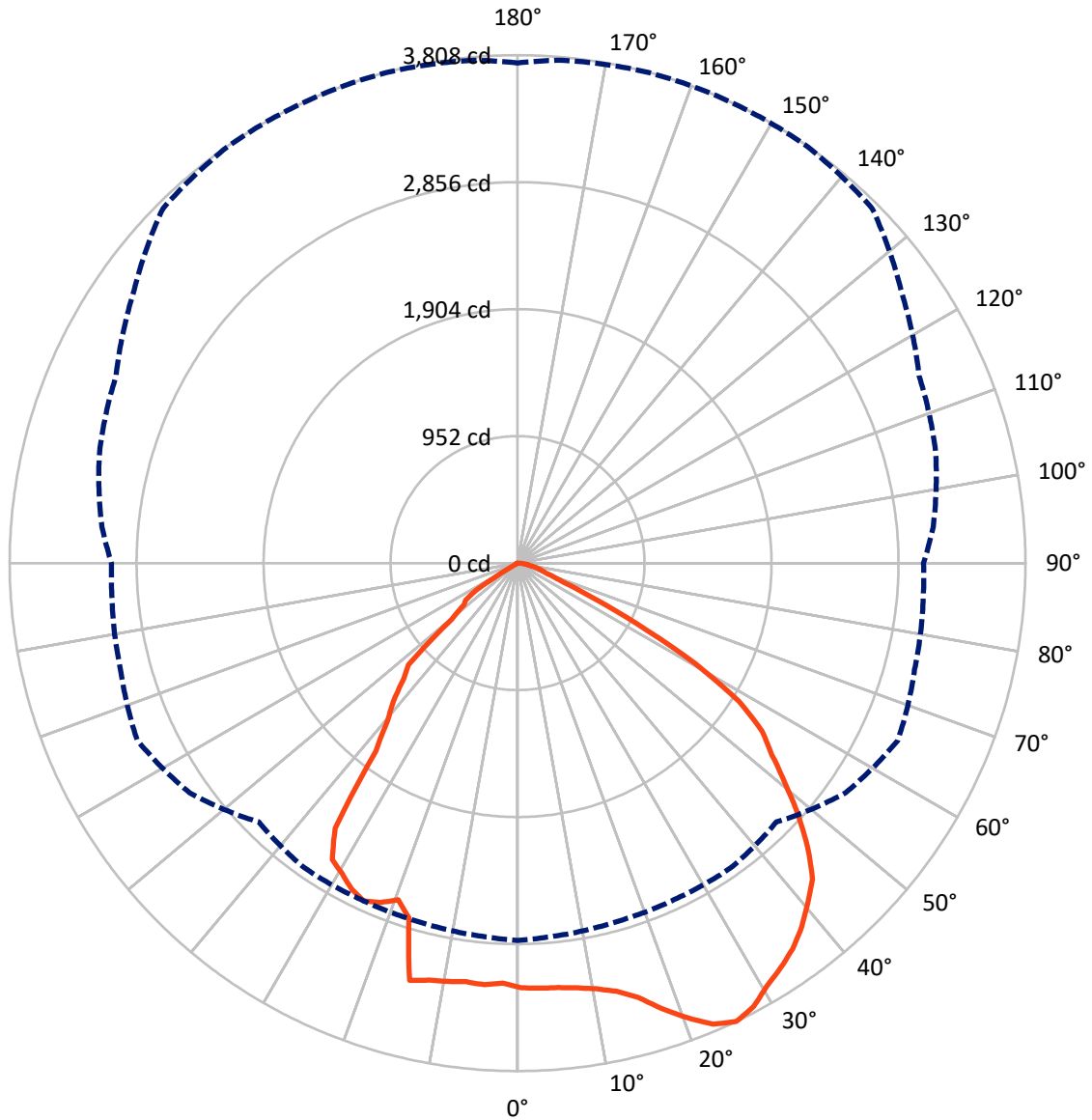
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 fc  
 Type I - Short - N/A

REPORT NUMBER: P636885  
CATALOG NUMBER: IFLD-S-SA2D-930-U-LAM-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4567.3	0.0	4567.3
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	2810.0	0.0	2810.0
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	7377.2	0.0	7377.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.4	4.1
10°-20°	932.5	12.6
20°-30°	1474.2	20.0
30°-40°	1665.2	22.6
40°-50°	1559.5	21.1
50°-60°	1075.2	14.6
60°-70°	288.9	3.9
70°-80°	60.2	0.8
80°-90°	16.3	0.2
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°	7377.2	100.0
0°-180°	7377.2	100.0



REPORT NUMBER: P636885

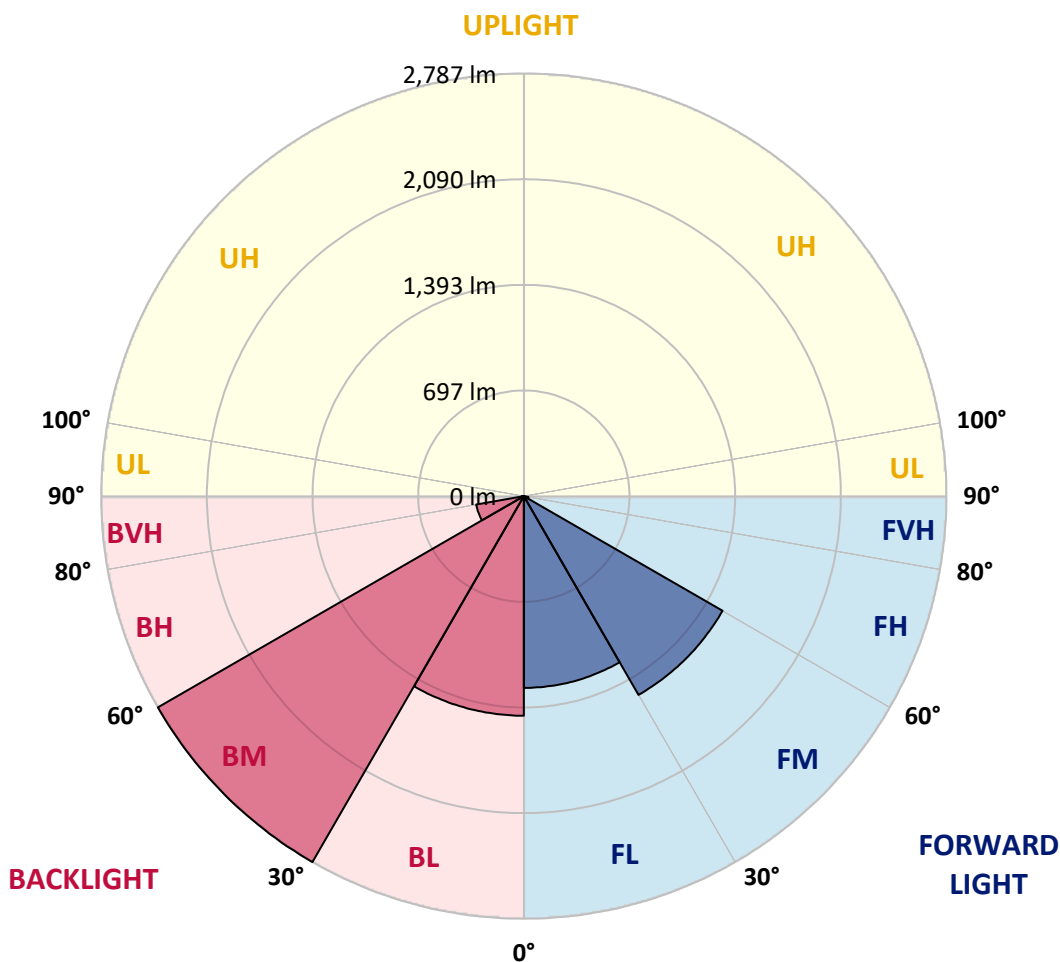
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1264.2	17.1			
FM (30°-60°)	1513.2	20.5			
FH (60°-80°)	30.3	0.4			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1447.8	19.6	B3/2500		
BM (30°-60°)	2786.6	37.8	B3/5000		
BH (60°-80°)	318.7	4.3	B1/500		G1/500
BVH (80°-90°)	14.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





REPORT NUMBER: P636885  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3183.1	3183.1	3183.1	3183.1	3183.1	3183.1	3183.1	3183.1	3183.1	3183.1
2.5°	3197.2	3176.6	3157.1	3150.6	3177.7	3207.0	3188.6	3189.6	3183.1	3195.1
5°	3221.1	3192.9	3179.9	3170.1	3174.5	3204.8	3178.8	3188.6	3177.7	3191.8
7.5°	3212.4	3192.9	3179.9	3161.5	3175.5	3211.3	3186.4	3187.5	3182.1	3195.1
10°	3207.0	3192.9	3176.6	3178.8	3195.1	3225.4	3205.9	3216.7	3209.2	3216.7
12.5°	3220.0	3204.8	3196.1	3196.1	3210.2	3244.9	3235.2	3244.9	3241.7	3248.2
15°	3097.5	3111.6	3194.0	3230.8	3259.0	3293.7	3289.4	3299.1	3301.3	3311.1
17.5°	2612.9	2598.8	2592.3	2782.0	3286.1	3393.5	3390.2	3389.1	3378.3	3370.7
20°	2676.8	2671.4	2663.8	2677.9	2734.3	3445.5	3467.2	3333.8	3294.8	3291.6
22.5°	2778.7	2770.1	2741.9	2743.0	2760.3	2995.6	3359.9	3238.4	3225.4	3217.8
25°	2828.6	2811.3	2788.5	2782.0	2787.4	2744.0	3001.0	3145.2	3081.2	3052.0
27.5°	2740.8	2741.9	2723.4	2740.8	2720.2	2525.0	2415.5	2963.1	2960.9	2947.9
30°	2674.7	2671.4	2649.7	2671.4	2529.4	2311.5	2264.8	2763.6	2740.8	2723.4
32.5°	2471.9	2474.1	2537.0	2621.5	2388.4	2216.1	2075.1	2468.7	2684.4	2674.7
35°	1768.3	1772.6	1996.0	2413.4	2174.9	2026.3	2015.5	2133.7	2595.5	2599.9
37.5°	1702.2	1702.2	1696.7	1765.0	2006.8	1949.3	1971.0	1959.1	2377.6	2388.4
40°	1654.5	1644.7	1637.1	1529.8	1395.3	1895.1	1910.3	1856.1	2247.5	2249.7
42.5°	1597.0	1586.1	1588.3	1389.9	1249.0	1760.7	1718.4	1645.8	2030.7	2032.8
45°	1491.8	1510.3	1523.3	1216.4	1205.6	1257.6	1585.1	1539.5	1884.3	1924.4
47.5°	758.9	775.2	1189.3	1118.9	1143.8	1117.8	1339.0	1340.0	1567.7	1701.1
50°	688.5	684.1	685.2	652.7	1056.0	904.2	968.2	1228.4	1255.5	1446.3
52.5°	641.8	640.7	574.6	510.6	663.5	795.8	702.5	889.0	933.5	1225.1
55°	474.9	509.6	453.2	480.3	415.2	637.5	634.2	802.3	817.5	982.3
57.5°	4.3	5.4	13.0	365.4	287.3	318.7	438.0	547.5	574.6	765.4
60°	1.1	2.2	5.4	10.8	186.5	196.2	292.7	316.6	356.7	456.4
62.5°	0.0	0.0	2.2	5.4	9.8	80.2	93.2	101.9	157.2	233.1
65°	0.0	0.0	1.1	3.3	5.4	13.0	22.8	47.7	68.3	84.6
67.5°	0.0	0.0	1.1	2.2	4.3	6.5	13.0	18.4	29.3	49.9
70°	0.0	0.0	1.1	2.2	3.3	5.4	8.7	13.0	17.3	24.9
72.5°	0.0	0.0	1.1	2.2	2.2	6.5	6.5	9.8	13.0	16.3
75°	0.0	0.0	1.1	1.1	2.2	4.3	6.5	7.6	8.7	13.0
77.5°	0.0	0.0	1.1	2.2	3.3	4.3	5.4	8.7	7.6	7.6
80°	0.0	0.0	1.1	3.3	3.3	5.4	6.5	8.7	5.4	5.4
82.5°	0.0	0.0	1.1	4.3	3.3	10.8	10.8	11.9	4.3	4.3
85°	0.0	0.0	3.3	2.2	6.5	10.8	9.8	6.5	5.4	3.3
87.5°	0.0	0.0	1.1	1.1	2.2	3.3	7.6	6.5	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636885

CATALOG NUMBER: IFLD-S-SA2D-930-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
3183.1	0°	3183.1	3183.1	3183.1	3183.1	3183.1	3183.1	3183.1	3183.1	3183.1
3163.6	2.5°	3207.0	3192.9	3222.2	3218.9	3204.8	3198.3	3190.7	3184.2	3136.5
3165.8	5°	3208.1	3186.4	3222.2	3215.7	3213.5	3202.7	3196.1	3205.9	3162.5
3174.5	7.5°	3208.1	3186.4	3225.4	3227.6	3224.3	3215.7	3214.6	3221.1	3185.3
3189.6	10°	3229.8	3221.1	3253.6	3256.9	3252.5	3250.4	3244.9	3240.6	3202.7
3241.7	12.5°	3275.3	3257.9	3294.8	3304.6	3301.3	3306.7	3293.7	3300.2	3261.2
3294.8	15°	3330.6	3331.7	3359.9	3381.5	3379.4	3396.7	3377.2	3394.6	3366.4
3355.5	17.5°	3415.2	3427.1	3467.2	3499.7	3511.6	3524.7	3511.6	3517.1	3476.9
3288.3	20°	3326.2	3370.7	3563.7	3623.3	3648.2	3660.2	3638.5	3645.0	3604.9
3205.9	22.5°	3246.0	3303.5	3474.8	3661.3	3738.2	3762.1	3754.5	3753.4	3738.2
3043.3	25°	3127.8	3243.9	3320.8	3518.1	3759.9	3803.3	3807.6	3806.5	3783.8
2943.5	27.5°	2982.6	3008.6	3208.1	3328.4	3608.1	3772.9	3766.4	3735.0	3704.6
2736.5	30°	2797.2	2915.3	3005.3	3197.2	3411.9	3679.7	3679.7	3655.8	3624.4
2662.7	32.5°	2702.8	2855.7	2939.2	3008.6	3191.8	3575.6	3619.0	3594.0	3569.1
2605.3	35°	2653.0	2675.7	2870.9	2933.8	3088.8	3375.0	3550.7	3525.7	3507.3
2452.4	37.5°	2543.5	2596.6	2687.7	2855.7	2903.4	3211.3	3459.6	3446.6	3424.9
2254.0	40°	2299.5	2441.6	2581.4	2740.8	2790.7	3001.0	3349.0	3354.4	3325.2
2042.6	42.5°	2155.3	2251.8	2470.8	2578.2	2712.6	2865.5	3241.7	3250.4	3229.8
1935.3	45°	1986.2	2093.5	2247.5	2442.6	2625.9	2679.0	3052.0	3143.0	3125.7
1721.7	47.5°	1831.2	1917.9	2106.6	2303.9	2506.6	2499.0	2834.0	3005.3	2981.5
1558.0	50°	1611.1	1762.9	1851.8	2032.8	2335.3	2355.9	2602.0	2843.8	2824.3
1323.8	52.5°	1358.5	1549.3	1719.5	1885.4	2161.8	2210.6	2386.3	2679.0	2666.0
1011.5	55°	1187.2	1325.9	1517.8	1651.2	1951.5	2081.6	2224.7	2521.8	2515.3
831.6	57.5°	844.6	1112.4	1270.7	1457.1	1615.4	1850.7	1956.9	2202.0	2141.2
460.8	60°	572.4	698.2	891.2	1091.8	1198.0	1433.3	1531.9	1728.2	1711.9
275.4	62.5°	302.5	418.5	556.2	657.0	734.0	962.7	1003.9	1215.4	1209.9
110.6	65°	133.4	176.7	301.4	353.4	432.6	538.8	574.6	650.5	632.1
54.2	67.5°	69.4	105.2	170.2	209.2	263.5	303.6	332.8	356.7	371.9
35.8	70°	42.3	77.0	105.2	145.3	181.1	213.6	236.4	268.9	288.4
18.4	72.5°	31.4	48.8	72.6	111.7	131.2	169.1	191.9	215.8	233.1
15.2	75°	17.3	32.5	58.5	87.8	105.2	137.7	158.3	174.6	180.0
8.7	77.5°	10.8	24.9	48.8	68.3	82.4	111.7	106.2	121.4	134.4
6.5	80°	7.6	18.4	37.9	56.4	57.5	71.6	84.6	97.6	106.2
4.3	82.5°	5.4	15.2	28.2	43.4	37.9	55.3	66.1	75.9	55.3
3.3	85°	4.3	10.8	14.1	26.0	21.7	39.0	33.6	32.5	21.7
2.2	87.5°	3.3	5.4	9.8	11.9	8.7	8.7	10.8	13.0	10.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
3183.1  
3104.0  
3125.7  
3144.1  
3171.2  
3226.5  
3319.7  
3442.3  
3576.7  
3689.4  
*3749.1*  
3680.8  
3612.5  
3548.5  
3481.3  
3403.2  
3318.7  
3227.6  
3127.8  
2998.8  
2827.5  
2674.7  
2522.9  
2134.7  
1713.0  
1211.0  
624.5  
371.9  
289.5  
236.4  
176.7  
136.6  
107.3  
40.1  
21.7  
10.8  
0.0

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