

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: P638074

Luminaire Tested: **IFLD-S-SA2D-727-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638074  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-727-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10060.4 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

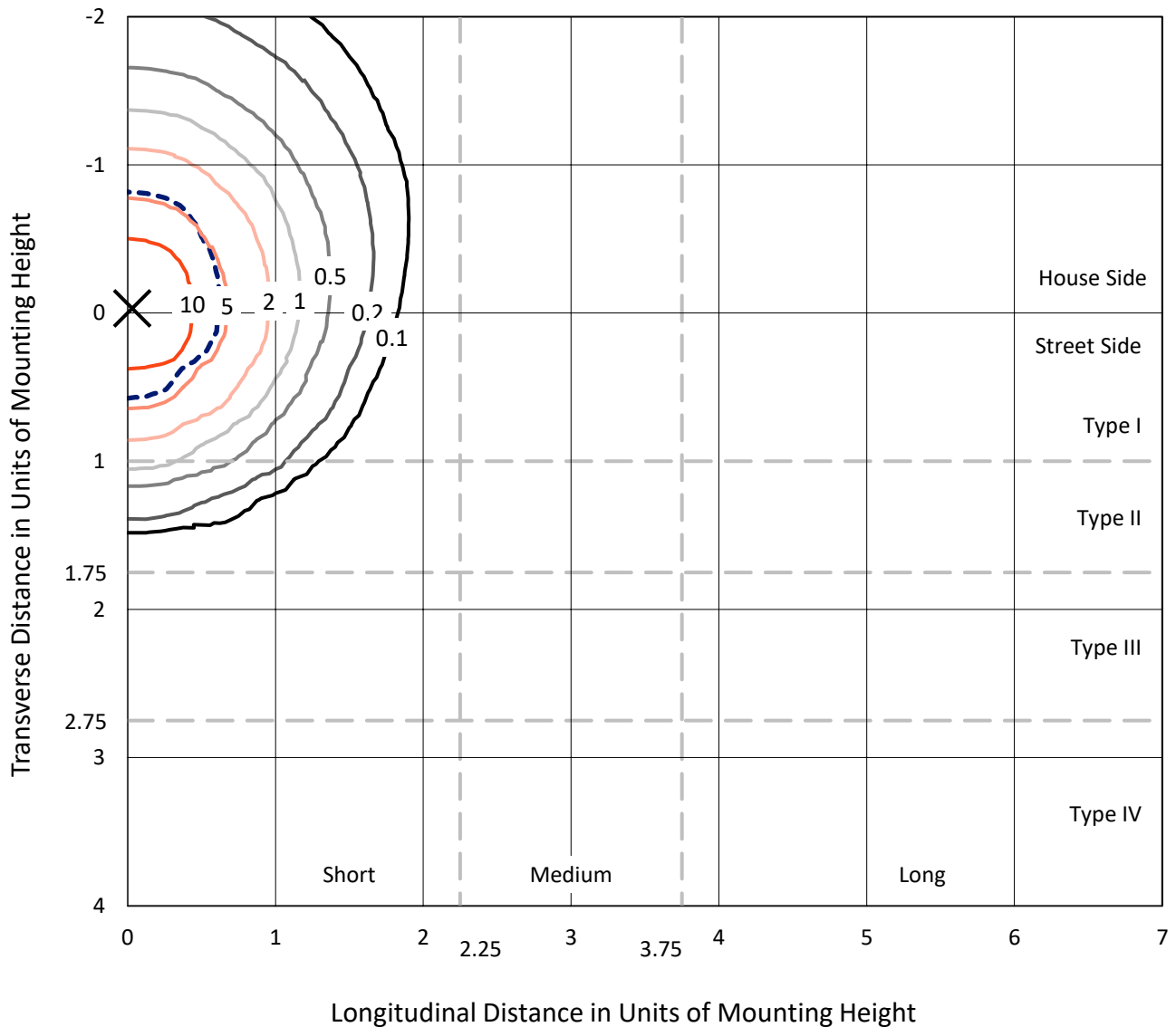
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

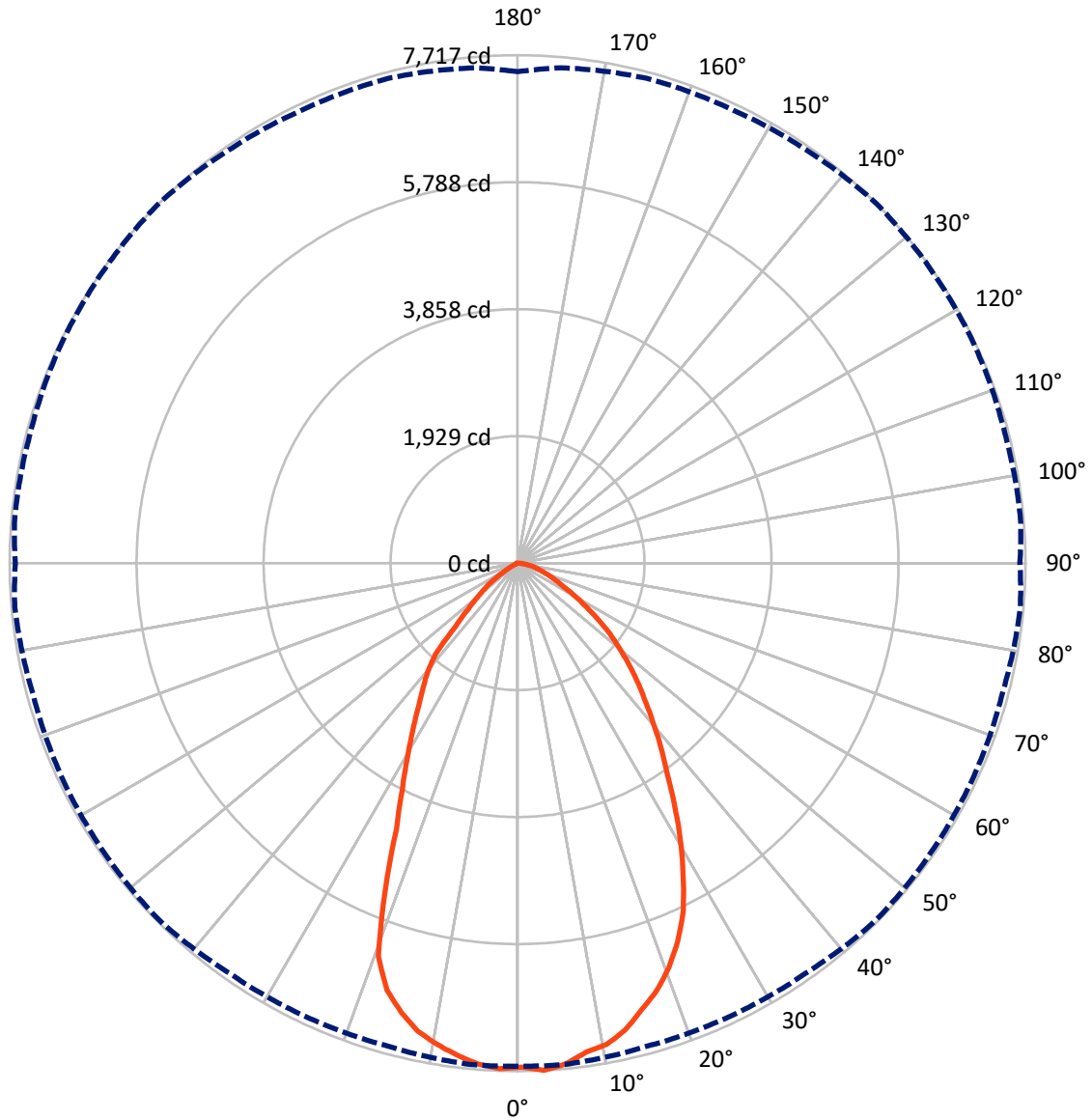
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5958.3	0.0	5958.3
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	4102.1	0.0	4102.1
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	10060.4	0.0	10060.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	718.0	7.1
10°-20°	1925.4	19.1
20°-30°	2348.1	23.3
30°-40°	2143.8	21.3
40°-50°	1549.3	15.4
50°-60°	845.9	8.4
60°-70°	349.8	3.5
70°-80°	141.7	1.4
80°-90°	38.5	0.4
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°	10060.4	100.0
0°-180°	10060.4	100.0



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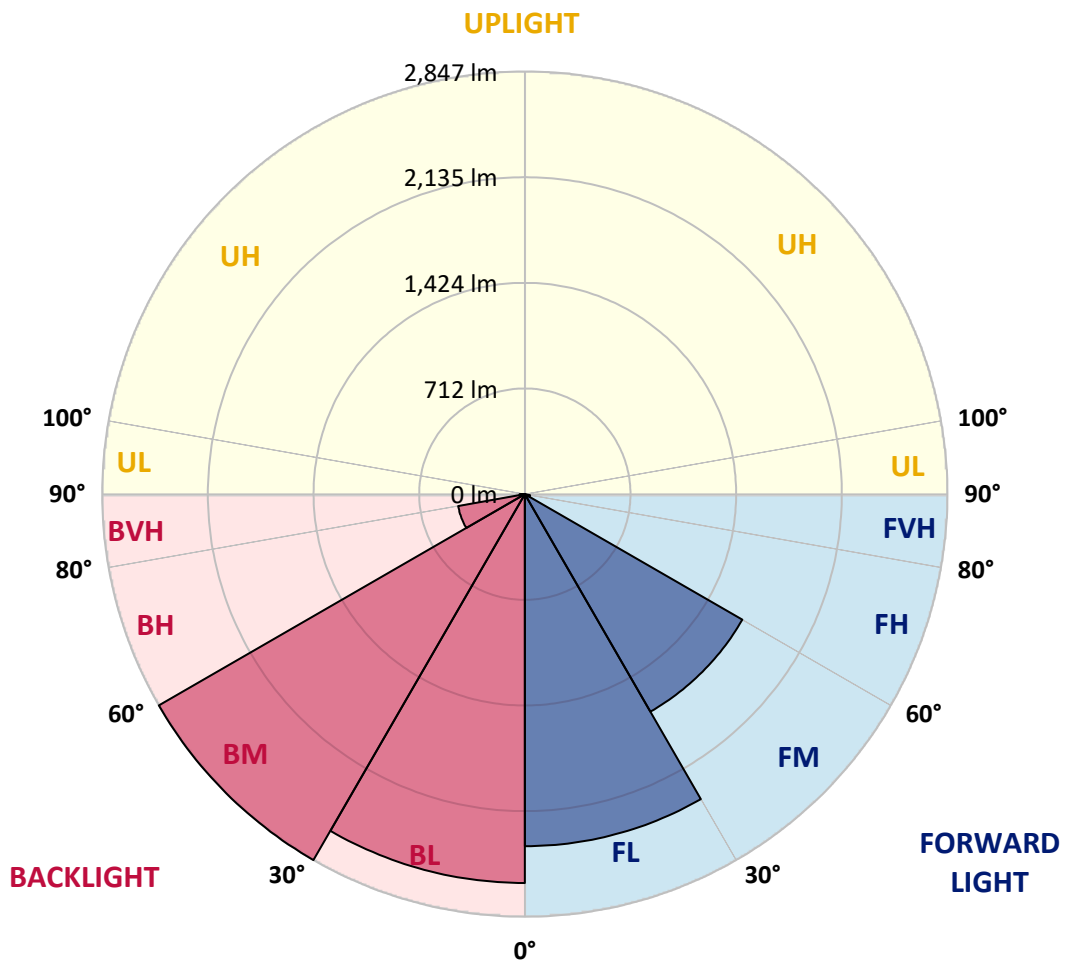
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2371.6	23.6			
FM (30°-60°)	1692.0	16.8			
FH (60°-80°)	35.5	0.4			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	2619.9	26.0	B4/5000		
BM (30°-60°)	2847.0	28.3	B3/5000		
BH (60°-80°)	456.0	4.5	B1/500		G1/500
BVH (80°-90°)	35.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9
2.5°	7641.8	7651.7	7597.9	7603.5	7613.4	7685.7	7667.3	7650.3	7626.2	7667.3
5°	7631.9	7637.5	7580.9	7561.0	7569.5	7634.7	7575.2	7575.2	7569.5	7562.4
7.5°	7555.4	7558.2	7514.3	7478.9	7501.5	7531.3	7487.4	7508.6	7477.4	7501.5
10°	7440.6	7422.2	7369.8	7359.9	7385.4	7413.7	7383.9	7403.8	7375.4	7393.9
12.5°	7272.0	7243.7	7201.2	7188.4	7232.3	7270.6	7246.5	7235.2	7198.3	7243.7
15°	6621.7	6600.5	6696.8	6865.4	7017.0	7049.6	7024.1	7035.4	6958.9	6971.7
17.5°	5450.1	5410.4	5513.9	5913.4	6482.9	6783.2	6760.6	6686.9	6573.6	6599.1
20°	4952.8	4941.5	4930.2	5025.1	5423.2	6334.1	6365.3	6178.3	6016.8	5981.4
22.5°	4672.3	4668.1	4656.8	4678.0	4782.8	5367.9	5725.0	5552.1	5444.4	5434.5
25°	4415.9	4408.8	4374.8	4401.7	4401.7	4435.7	4893.3	4998.2	4903.3	4891.9
27.5°	4155.2	4142.5	4136.8	4149.6	4084.4	3854.9	3971.1	4482.5	4432.9	4435.7
30°	3873.3	3869.1	3853.5	3880.4	3679.2	3394.5	3320.8	4015.0	4024.9	4022.1
32.5°	3454.0	3472.4	3543.2	3573.0	3241.5	3006.3	2883.0	3473.8	3676.4	3672.1
35°	2509.0	2509.0	2739.9	3169.2	2840.5	2663.4	2596.8	2945.4	3332.1	3346.3
37.5°	2062.7	2069.8	2115.2	2310.7	2450.9	2388.6	2368.8	2479.3	2890.1	2912.8
40°	1855.9	1855.9	1855.9	1775.1	1770.9	2152.0	2140.7	2105.2	2496.3	2545.8
42.5°	1667.5	1671.7	1674.6	1470.6	1357.2	1860.2	1834.7	1780.8	2143.5	2201.6
45°	1473.4	1480.5	1489.0	1229.7	1180.1	1338.8	1552.7	1493.2	1795.0	1870.1
47.5°	899.6	911.0	1103.6	1042.7	1048.4	1032.8	1266.5	1256.6	1472.0	1578.2
50°	607.8	612.0	630.4	661.6	899.6	811.8	896.8	1039.9	1117.8	1279.3
52.5°	510.0	517.1	471.8	429.3	590.8	634.7	626.2	772.1	803.3	1003.0
55°	358.4	381.1	359.8	355.6	335.8	493.0	474.6	593.6	613.4	762.2
57.5°	36.8	42.5	73.7	264.9	219.6	279.1	338.6	434.9	454.8	562.4
60°	2.8	2.8	7.1	36.8	160.1	167.2	233.8	267.8	306.0	392.4
62.5°	0.0	1.4	2.8	5.7	25.5	89.3	117.6	140.3	184.2	253.6
65°	0.0	0.0	1.4	4.3	5.7	34.0	45.3	73.7	100.6	157.3
67.5°	0.0	0.0	1.4	2.8	4.3	8.5	15.6	26.9	53.8	89.3
70°	0.0	0.0	1.4	2.8	4.3	7.1	11.3	17.0	24.1	48.2
72.5°	0.0	0.0	1.4	1.4	2.8	7.1	8.5	11.3	17.0	24.1
75°	0.0	0.0	1.4	1.4	4.3	8.5	7.1	8.5	11.3	15.6
77.5°	0.0	0.0	1.4	2.8	4.3	8.5	7.1	8.5	8.5	9.9
80°	0.0	0.0	1.4	2.8	5.7	9.9	8.5	8.5	7.1	7.1
82.5°	0.0	0.0	1.4	4.3	5.7	12.8	12.8	11.3	5.7	4.3
85°	0.0	0.0	2.8	5.7	8.5	14.2	14.2	11.3	4.3	2.8
87.5°	0.0	0.0	2.8	4.3	7.1	9.9	14.2	11.3	4.3	1.4
90°	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°
7655.9	0°	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9
7631.9	2.5°	7670.1	7661.6	7689.9	7701.3	7716.9	7657.4	7620.5	7621.9	7553.9
7545.4	5°	7590.8	7592.2	7629.0	7626.2	7641.8	7609.2	7595.0	7570.9	7511.4
7436.4	7.5°	7490.2	7477.4	7512.9	7539.8	7500.1	7522.8	7490.2	7501.5	7466.1
7340.0	10°	7412.3	7382.5	7415.1	7433.5	7434.9	7412.3	7381.1	7351.4	7338.6
7189.8	12.5°	7239.4	7201.2	7256.4	7281.9	7277.7	7233.8	7198.3	7205.4	7164.3
6926.3	15°	7001.4	7002.8	7042.5	7066.6	7043.9	7034.0	7036.8	7019.8	6984.4
6562.2	17.5°	6637.3	6658.6	6763.4	6821.5	6834.3	6814.4	6804.5	6784.7	6749.2
5981.4	20°	6031.0	6158.5	6345.5	6525.4	6560.8	6555.2	6519.7	6511.2	6491.4
5406.2	22.5°	5498.3	5593.2	5810.0	6090.5	6235.0	6249.1	6206.6	6193.9	6172.6
4891.9	25°	4947.2	5049.2	5244.7	5549.3	5848.2	5909.1	5902.0	5863.8	5841.1
4435.7	27.5°	4482.5	4584.5	4761.6	5036.4	5356.6	5552.1	5570.5	5509.6	5508.2
4029.1	30°	4063.1	4203.4	4338.0	4561.8	4872.1	5165.4	5196.5	5154.0	5158.3
3656.6	32.5°	3734.5	3850.6	3965.4	4115.6	4373.4	4714.8	4836.7	4797.0	4781.4
3346.3	35°	3398.7	3478.0	3595.6	3733.1	3908.7	4247.3	4458.4	4428.7	4413.1
2926.9	37.5°	3016.2	3152.2	3237.2	3391.6	3529.0	3798.2	4095.7	4091.5	4058.9
2569.9	40°	2623.8	2766.9	2895.8	3051.6	3157.9	3371.8	3701.9	3700.5	3704.7
2200.2	42.5°	2268.2	2399.9	2555.8	2725.8	2827.8	2983.6	3337.8	3357.6	3381.7
1895.6	45°	1946.6	2065.6	2210.1	2416.9	2540.2	2629.4	2943.9	3034.6	3033.2
1623.6	47.5°	1657.6	1769.5	1891.3	2092.5	2249.7	2330.5	2591.2	2720.1	2711.6
1331.7	50°	1391.2	1490.4	1617.9	1763.8	1974.9	2045.7	2239.8	2409.8	2397.1
1061.1	52.5°	1119.2	1256.6	1364.3	1497.5	1719.9	1789.3	1939.5	2105.2	2095.3
796.2	55°	872.7	1005.9	1136.2	1251.0	1438.0	1541.4	1649.1	1819.1	1816.2
623.4	57.5°	660.2	806.1	929.4	1038.5	1187.2	1314.7	1401.1	1555.6	1575.4
426.4	60°	488.8	600.7	733.9	855.7	973.3	1105.0	1163.1	1314.7	1323.2
291.8	62.5°	332.9	456.2	586.5	697.0	784.9	920.9	973.3	1098.0	1113.5
187.0	65°	230.9	310.3	459.0	538.4	646.0	762.2	814.6	913.8	945.0
107.7	67.5°	153.0	221.0	358.4	430.7	536.9	616.3	682.9	763.6	797.6
68.0	70°	83.6	162.9	256.4	340.0	432.1	508.6	573.8	638.9	668.7
31.2	72.5°	56.7	109.1	178.5	269.2	348.5	423.6	481.7	529.9	531.3
18.4	75°	28.3	73.7	136.0	208.3	272.0	345.7	398.1	426.4	392.4
11.3	77.5°	17.0	53.8	110.5	167.2	221.0	279.1	308.8	324.4	269.2
8.5	80°	9.9	38.3	86.4	133.2	153.0	205.4	233.8	238.0	179.9
5.7	82.5°	7.1	28.3	68.0	97.8	93.5	144.5	175.7	170.0	114.8
4.3	85°	4.3	19.8	42.5	60.9	56.7	94.9	102.0	104.8	66.6
2.8	87.5°	2.8	11.3	22.7	32.6	26.9	41.1	41.1	49.6	32.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
7655.9  
7466.1  
7497.3  
7406.6  
7281.9  
7128.9  
6949.0  
6733.7  
6446.1  
6167.0  
5817.0  
5505.4  
5137.0  
4782.8  
4391.8  
4085.8  
3704.7  
3369.0  
3036.0  
2714.4  
2408.4  
2116.6  
1823.3  
1566.9  
1336.0  
1116.4  
937.9  
793.4  
657.4  
518.5  
366.9  
259.3  
168.6  
106.3  
60.9  
28.3  
0.0

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