

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: P636774

Luminaire Tested: **IFLD-S-SA3D-935-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636774  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-935-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11903.8 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

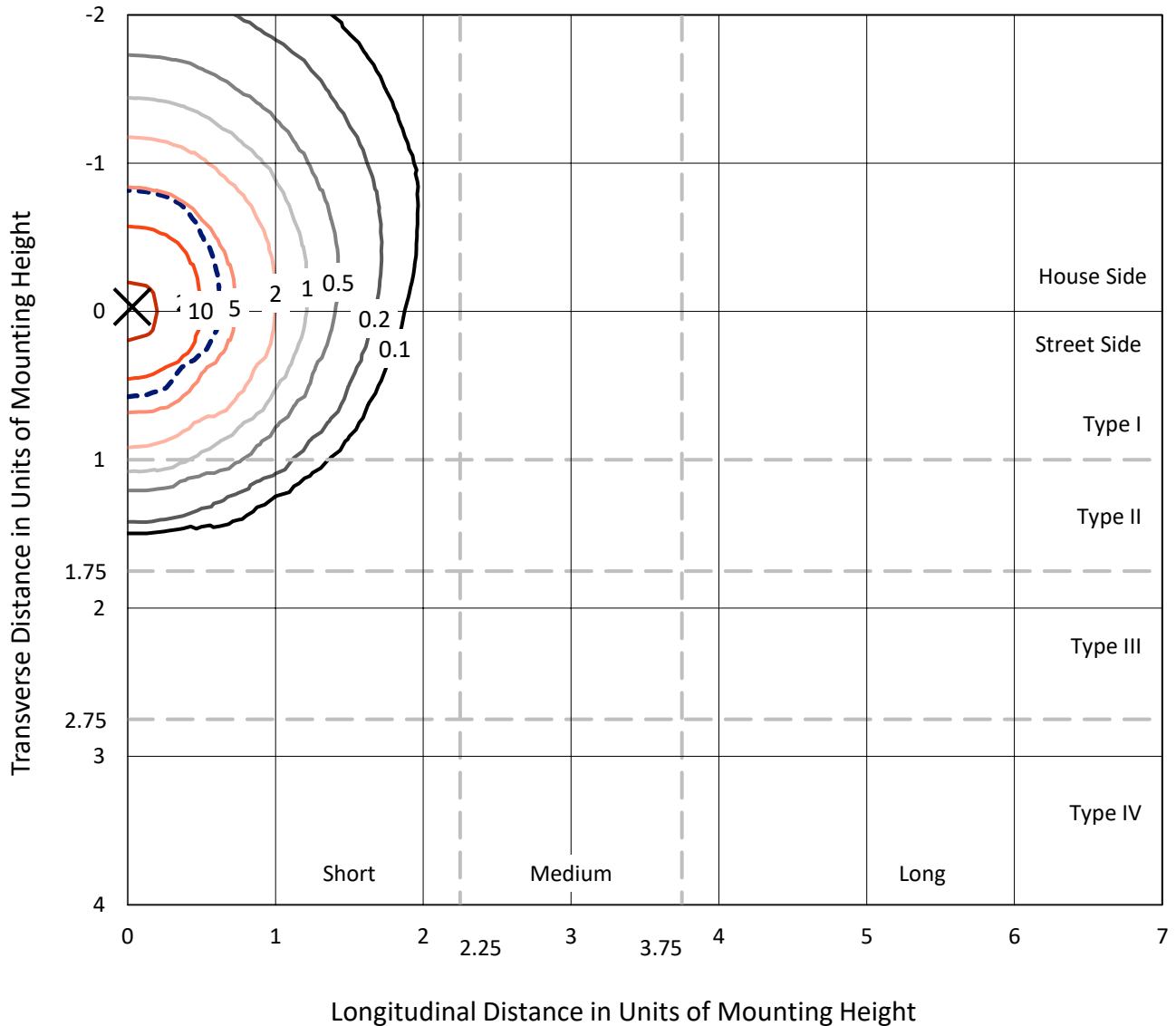
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P636774  
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### Iso-Footcandle Lines of Horizontal Illumination

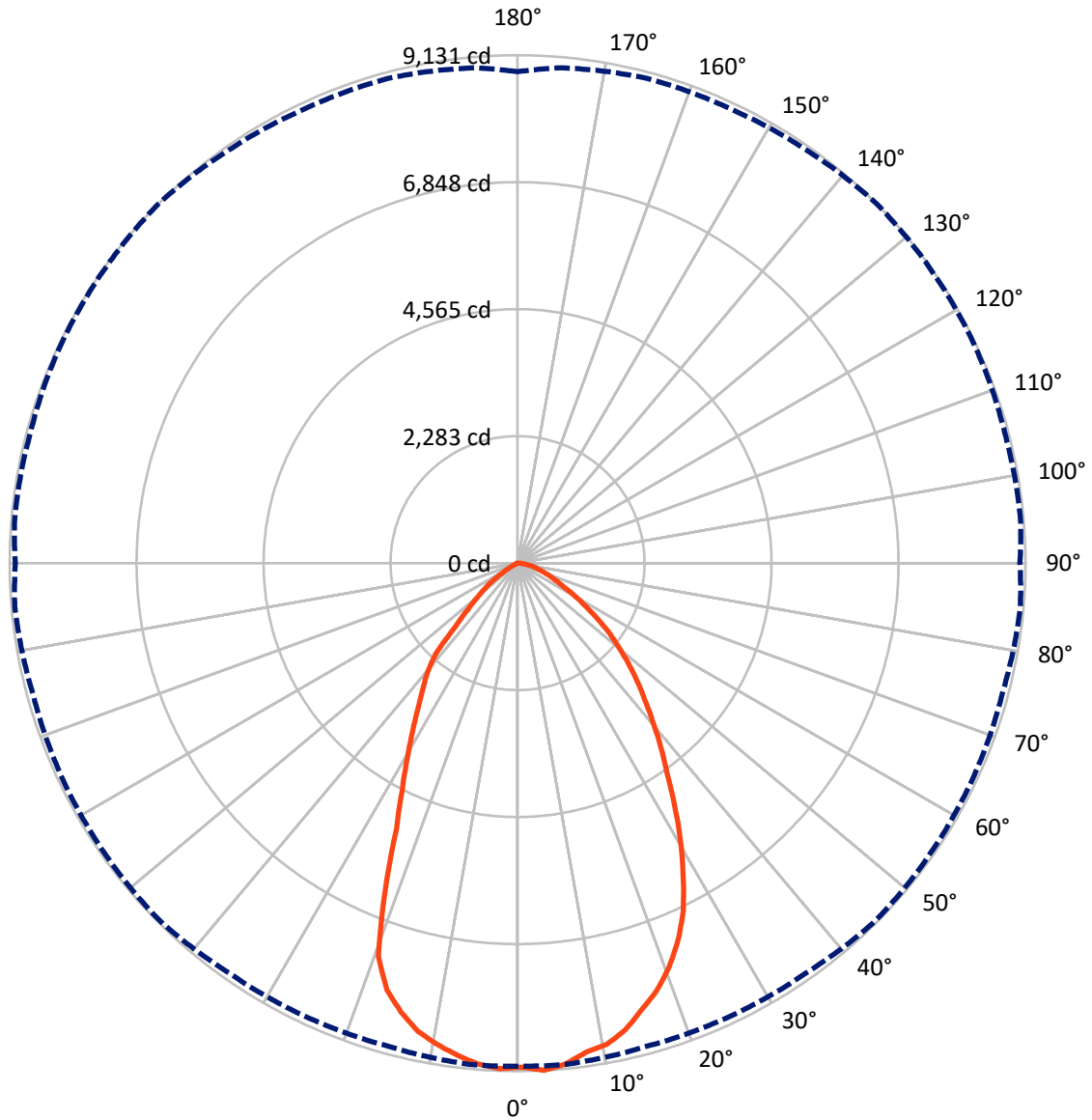
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.6 fc  
 Type I - Short - N/A

REPORT NUMBER: P636774  
CATALOG NUMBER: IFLD-S-SA3D-935-U-77-VI

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P636774

CATALOG NUMBER: IFLD-S-SA3D-935-U-77-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7050.0	0.0	7050.0
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	4853.8	0.0	4853.8
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	11903.8	0.0	11903.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	849.6	7.1
10°-20°	2278.2	19.1
20°-30°	2778.3	23.3
30°-40°	2536.6	21.3
40°-50°	1833.1	15.4
50°-60°	1000.9	8.4
60°-70°	413.8	3.5
70°-80°	167.6	1.4
80°-90°	45.6	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°	11903.8	100.0
0°-180°	11903.8	100.0



REPORT NUMBER: P636774

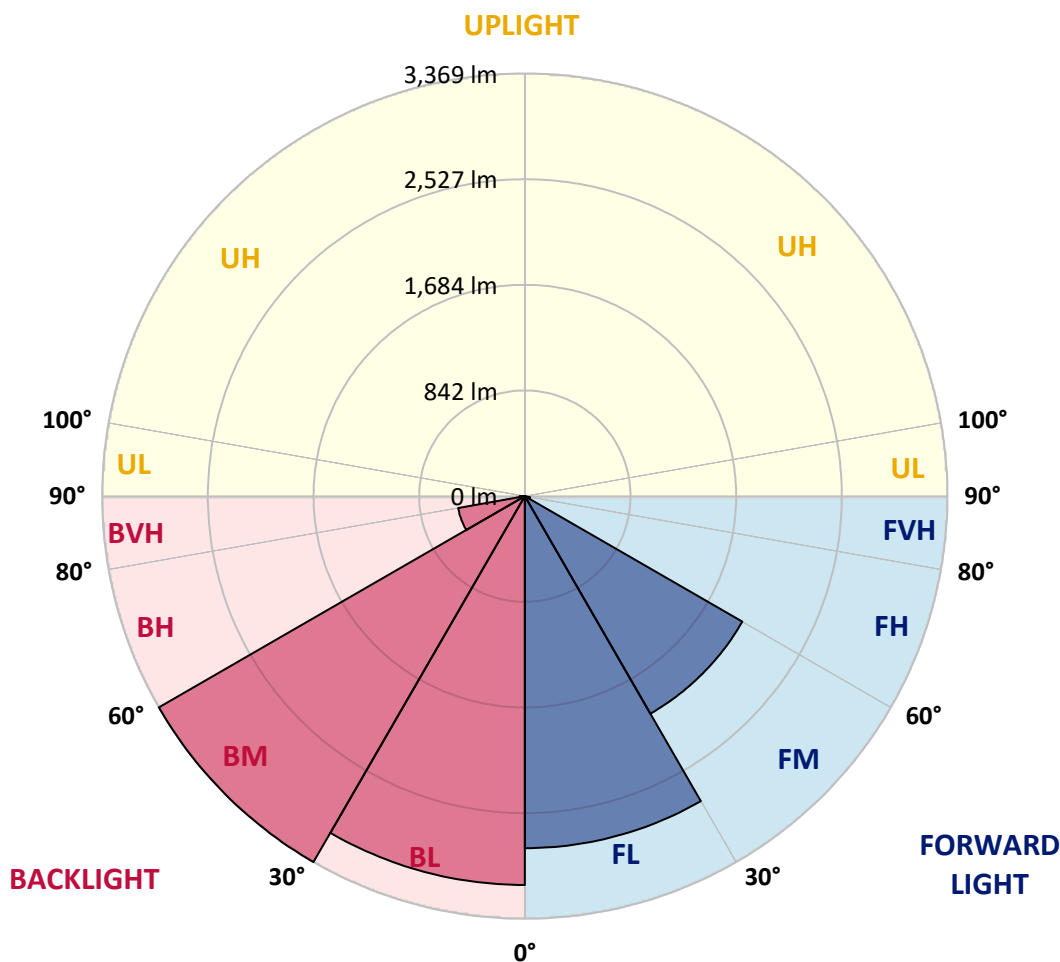
CATALOG NUMBER: IFLD-S-SA3D-935-U-77-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2806.2	23.6			
FM (30°-60°)	2002.0	16.8			
FH (60°-80°)	42.0	0.4			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	3099.9	26.0	B4/5000		
BM (30°-60°)	3368.7	28.3	B3/5000		
BH (60°-80°)	539.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	41.9	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-G2**

Type I Short





REPORT NUMBER: P636774  
 CATALOG NUMBER: IFLD-S-SA3D-935-U-77-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7
2.5°	9042.0	9053.7	8990.0	8996.7	9008.5	9093.9	9072.2	9052.0	9023.5	9072.2
5°	9030.2	9037.0	8969.9	8946.4	8956.5	9033.6	8963.2	8963.2	8956.5	8948.1
7.5°	8939.7	8943.1	8891.1	8849.2	8876.0	8911.2	8859.3	8884.4	8847.5	8876.0
10°	8803.9	8782.2	8720.1	8708.4	8738.6	8772.1	8736.9	8760.4	8726.8	8748.6
12.5°	8604.5	8570.9	8520.6	8505.6	8557.5	8602.8	8574.3	8560.9	8517.3	8570.9
15°	7835.0	7809.9	7923.9	8123.4	8302.7	8341.3	8311.1	8324.5	8234.0	8249.1
17.5°	6448.7	6401.8	6524.2	6996.9	7670.8	8026.1	7999.3	7912.2	7778.0	7808.2
20°	5860.4	5846.9	5833.5	5945.8	6416.9	7494.8	7531.6	7310.4	7119.3	7077.4
22.5°	5528.4	5523.4	5510.0	5535.2	5659.2	6351.5	6773.9	6569.4	6442.0	6430.3
25°	5225.0	5216.7	5176.4	5208.3	5208.3	5248.5	5790.0	5914.0	5801.7	5788.3
27.5°	4916.6	4901.5	4894.8	4909.9	4832.8	4561.2	4698.7	5303.8	5245.2	5248.5
30°	4583.0	4578.0	4559.5	4591.4	4353.4	4016.4	3929.3	4750.6	4762.4	4759.0
32.5°	4086.8	4108.6	4192.4	4227.6	3835.4	3557.1	3411.3	4110.3	4350.0	4345.0
35°	2968.7	2968.7	3242.0	3749.9	3361.0	3151.5	3072.7	3485.0	3942.7	3959.4
37.5°	2440.7	2449.1	2502.7	2734.1	2900.0	2826.2	2802.8	2933.5	3419.7	3446.5
40°	2196.0	2196.0	2196.0	2100.4	2095.4	2546.3	2532.9	2491.0	2953.6	3012.3
42.5°	1973.0	1978.0	1981.4	1740.0	1605.9	2201.0	2170.8	2107.1	2536.2	2605.0
45°	1743.4	1751.7	1761.8	1455.0	1396.4	1584.1	1837.2	1766.8	2123.9	2212.7
47.5°	1064.5	1077.9	1305.8	1233.8	1240.5	1222.0	1498.6	1486.9	1741.7	1867.4
50°	719.1	724.2	746.0	782.8	1064.5	960.5	1061.1	1230.4	1322.6	1513.7
52.5°	603.5	611.9	558.2	507.9	699.0	751.0	740.9	913.6	950.5	1186.8
55°	424.1	450.9	425.8	420.8	397.3	583.4	561.6	702.4	725.8	901.9
57.5°	43.6	50.3	87.2	313.5	259.8	330.2	400.6	514.6	538.1	665.5
60°	3.4	3.4	8.4	43.6	189.4	197.8	276.6	316.8	362.1	464.3
62.5°	0.0	1.7	3.4	6.7	30.2	105.6	139.1	166.0	217.9	300.1
65°	0.0	0.0	1.7	5.0	6.7	40.2	53.6	87.2	119.0	186.1
67.5°	0.0	0.0	1.7	3.4	5.0	10.1	18.4	31.8	63.7	105.6
70°	0.0	0.0	1.7	3.4	5.0	8.4	13.4	20.1	28.5	57.0
72.5°	0.0	0.0	1.7	1.7	3.4	8.4	10.1	13.4	20.1	28.5
75°	0.0	0.0	1.7	1.7	5.0	10.1	8.4	10.1	13.4	18.4
77.5°	0.0	0.0	1.7	3.4	5.0	10.1	8.4	10.1	10.1	11.7
80°	0.0	0.0	1.7	3.4	6.7	11.7	10.1	10.1	8.4	8.4
82.5°	0.0	0.0	1.7	5.0	6.7	15.1	15.1	13.4	6.7	5.0
85°	0.0	0.0	3.4	6.7	10.1	16.8	16.8	13.4	5.0	3.4
87.5°	0.0	0.0	3.4	5.0	8.4	11.7	16.8	13.4	5.0	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636774

CATALOG NUMBER: IFLD-S-SA3D-935-U-77-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
9058.7	0°	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7
9030.2	2.5°	9075.5	9065.4	9099.0	9112.4	9130.8	9060.4	9016.8	9018.5	8938.0
8928.0	5°	8981.6	8983.3	9026.9	9023.5	9042.0	9003.4	8986.7	8958.2	8887.8
8798.9	7.5°	8862.6	8847.5	8889.4	8921.3	8874.3	8901.2	8862.6	8876.0	8834.1
8684.9	10°	8770.4	8735.2	8773.8	8795.6	8797.2	8770.4	8733.5	8698.3	8683.3
8507.2	12.5°	8565.9	8520.6	8586.0	8616.2	8611.2	8559.2	8517.3	8525.7	8477.1
8195.4	15°	8284.3	8286.0	8332.9	8361.4	8334.6	8322.8	8326.2	8306.1	8264.2
7764.6	17.5°	7853.5	7878.6	8002.7	8071.4	8086.5	8063.0	8051.3	8027.8	7985.9
7077.4	20°	7136.0	7286.9	7508.2	7721.1	7763.0	7756.3	7714.3	7704.3	7680.8
6396.8	22.5°	6505.7	6618.0	6874.5	7206.4	7377.4	7394.2	7343.9	7328.8	7303.7
5788.3	25°	5853.7	5974.3	6205.7	6566.1	6919.8	6991.9	6983.5	6938.2	6911.4
5248.5	27.5°	5303.8	5424.5	5634.1	5959.3	6338.1	6569.4	6591.2	6519.1	6517.5
4767.4	30°	4807.6	4973.6	5132.8	5397.7	5764.8	6111.8	6148.7	6098.4	6103.4
4326.5	32.5°	4418.7	4556.2	4692.0	4869.7	5174.7	5578.7	5722.9	5676.0	5657.5
3959.4	35°	4021.5	4115.3	4254.5	4417.1	4624.9	5025.6	5275.3	5240.1	5221.7
3463.2	37.5°	3568.8	3729.8	3830.4	4013.1	4175.7	4494.2	4846.2	4841.2	4802.6
3040.8	40°	3104.5	3273.8	3426.4	3610.8	3736.5	3989.6	4380.2	4378.5	4383.5
2603.3	42.5°	2683.8	2839.7	3024.1	3225.2	3345.9	3530.3	3949.4	3972.8	4001.3
2242.9	45°	2303.2	2444.1	2615.0	2859.8	3005.6	3111.2	3483.4	3590.6	3589.0
1921.0	47.5°	1961.3	2093.7	2237.9	2475.9	2662.0	2757.5	3066.0	3218.5	3208.4
1575.7	50°	1646.1	1763.5	1914.3	2087.0	2336.8	2420.6	2650.2	2851.4	2836.3
1255.6	52.5°	1324.3	1486.9	1614.3	1771.9	2035.0	2117.2	2294.9	2491.0	2479.3
942.1	55°	1032.6	1190.2	1344.4	1480.2	1701.4	1823.8	1951.2	2152.4	2149.0
737.6	57.5°	781.2	953.8	1099.7	1228.7	1404.7	1555.6	1657.9	1840.6	1864.0
504.6	60°	578.3	710.8	868.3	1012.5	1151.6	1307.5	1376.2	1555.6	1565.7
345.3	62.5°	393.9	539.8	694.0	824.7	928.7	1089.6	1151.6	1299.1	1317.6
221.3	65°	273.2	367.1	543.1	637.0	764.4	901.9	963.9	1081.2	1118.1
127.4	67.5°	181.0	261.5	424.1	509.6	635.3	729.2	808.0	903.5	943.8
80.5	70°	98.9	192.8	303.4	402.3	511.3	601.8	678.9	756.0	791.2
36.9	72.5°	67.1	129.1	211.2	318.5	412.4	501.2	569.9	626.9	628.6
21.8	75°	33.5	87.2	160.9	246.4	321.9	409.0	471.0	504.6	464.3
13.4	77.5°	20.1	63.7	130.8	197.8	261.5	330.2	365.4	383.9	318.5
10.1	80°	11.7	45.3	102.3	157.6	181.0	243.1	276.6	281.6	212.9
6.7	82.5°	8.4	33.5	80.5	115.7	110.6	171.0	207.9	201.2	135.8
5.0	85°	5.0	23.5	50.3	72.1	67.1	112.3	120.7	124.0	78.8
3.4	87.5°	3.4	13.4	26.8	38.6	31.8	48.6	48.6	58.7	38.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
9058.7
8834.1
8871.0
8763.7
8616.2
8435.2
8222.3
7967.5
7627.2
7296.9
6882.9
6514.1
6078.3
5659.2
5196.5
4834.5
4383.5
3986.2
3592.3
3211.8
2849.7
2504.4
2157.4
1854.0
1580.8
1320.9
1109.7
938.7
777.8
613.5
434.2
306.8
199.5
125.7
72.1
33.5
0.0

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