

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: P637844

Luminaire Tested: **IFLD-S-SA3A-730-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637844
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10564.2 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

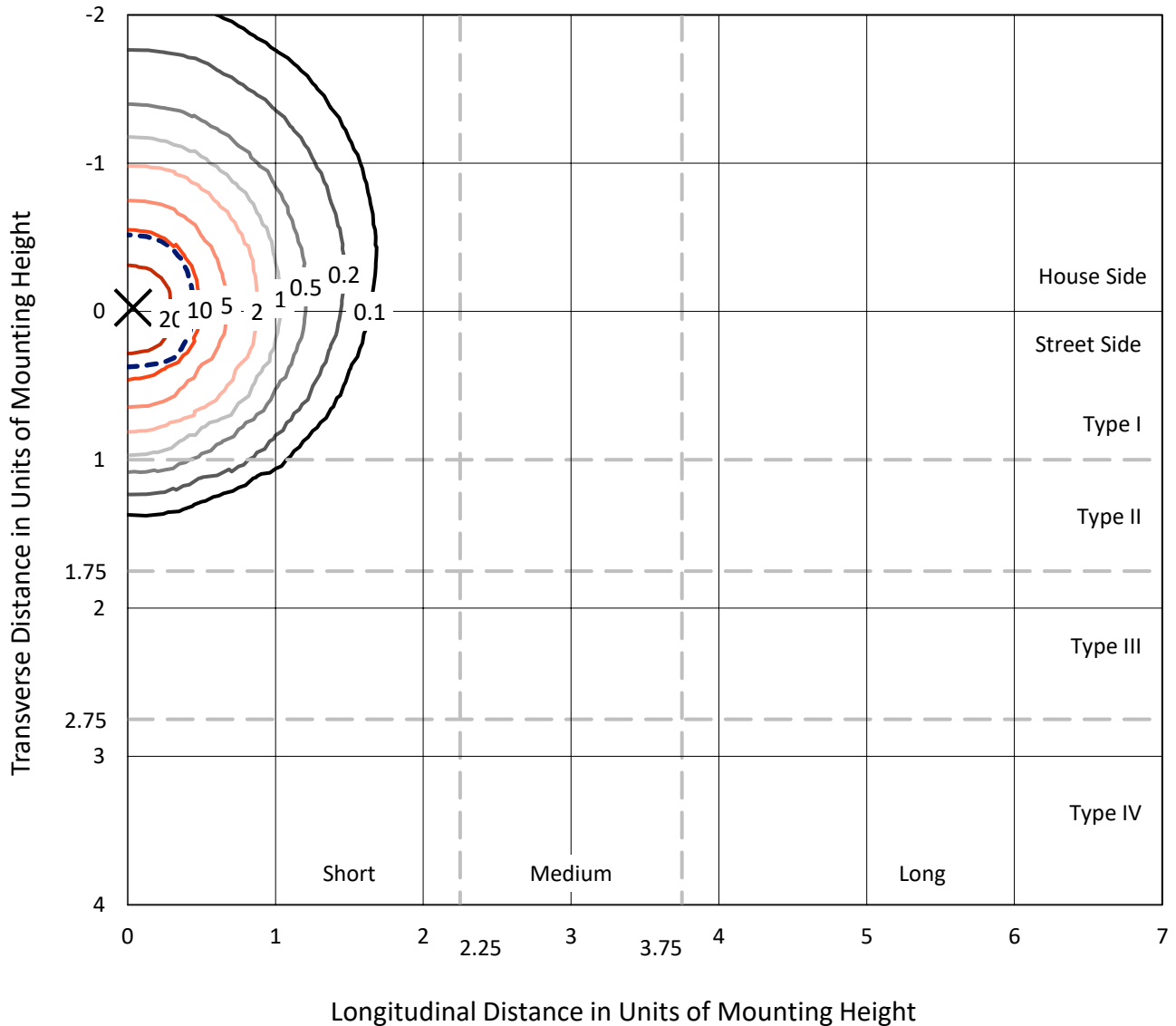
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637844
 CATALOG NUMBER: IFLD-S-SA3A-730-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

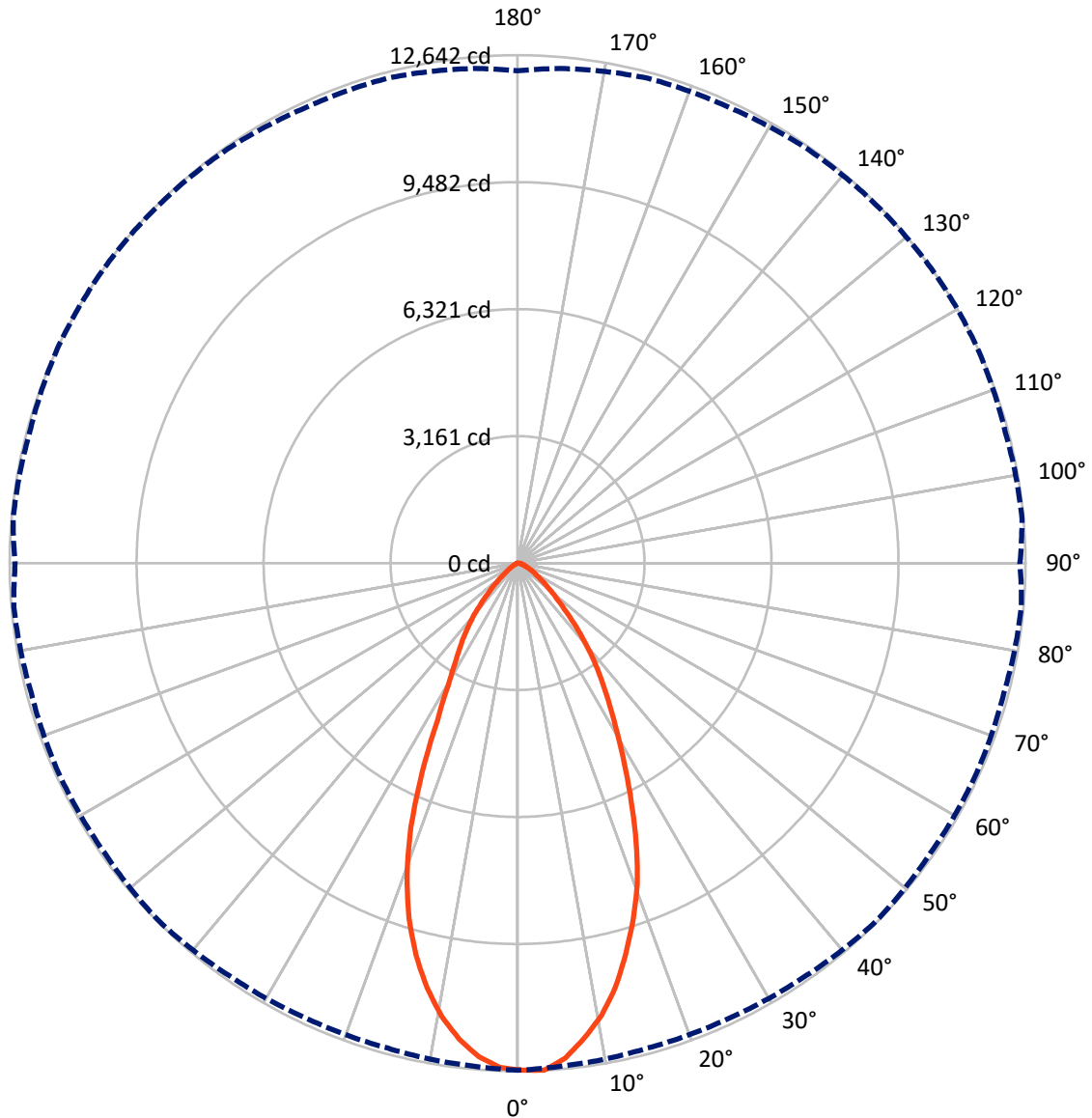
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31.6 fc
 Type I - Short - N/A

REPORT NUMBER: P637844
CATALOG NUMBER: IFLD-S-SA3A-730-U-66-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P637844

CATALOG NUMBER: IFLD-S-SA3A-730-U-66-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5994.5	0.0	5994.5
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	4569.7	0.0	4569.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	10564.2	0.0	10564.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1146.1	10.8
10°-20°	2732.0	25.9
20°-30°	2782.5	26.3
30°-40°	2074.9	19.6
40°-50°	1084.0	10.3
50°-60°	455.9	4.3
60°-70°	186.2	1.8
70°-80°	78.4	0.7
80°-90°	24.1	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°	10564.2	100.0
0°-180°	10564.2	100.0



REPORT NUMBER: P637844

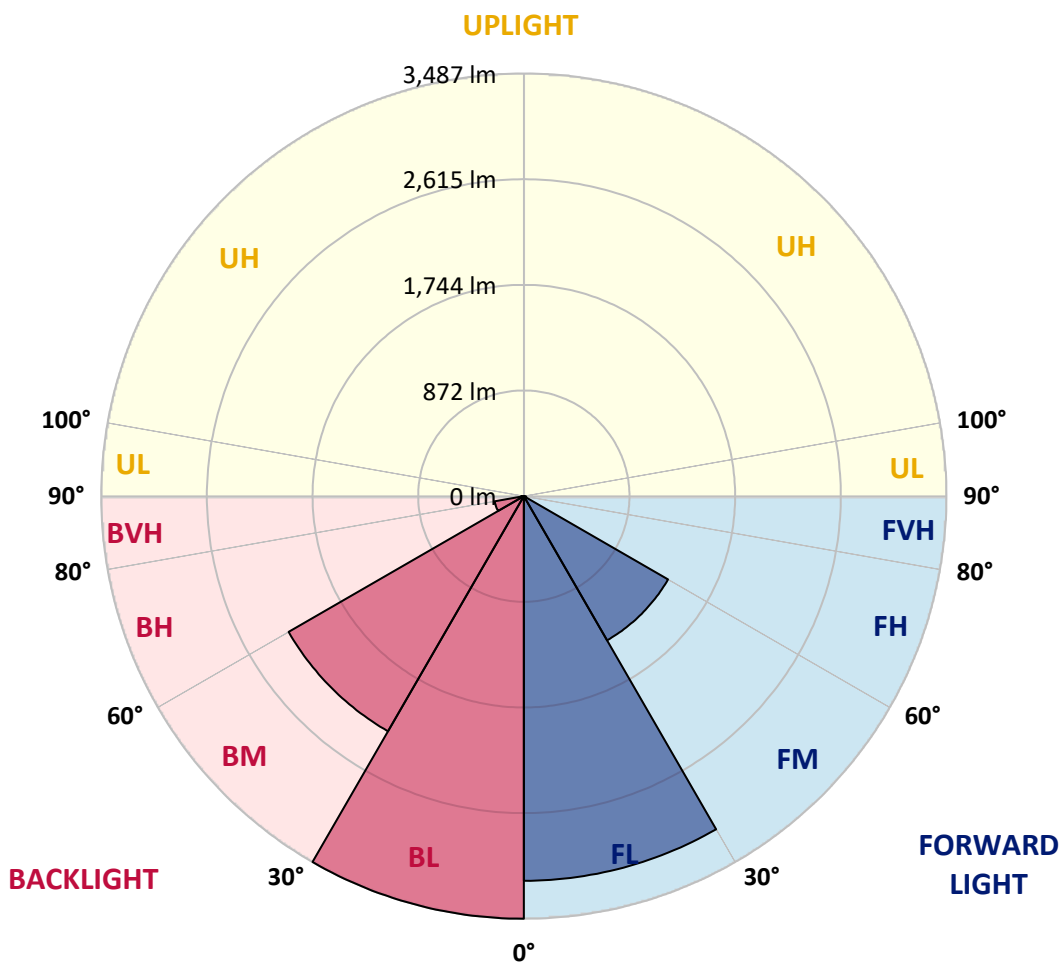
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3173.6	30.0			
FM (30°-60°)	1373.9	13.0			
FH (60°-80°)	19.9	0.2			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	3487.0	33.0	B4/5000		
BM (30°-60°)	2240.9	21.2	B2/2500		
BH (60°-80°)	244.7	2.3	B1/500		G1/500
BVH (80°-90°)	21.9	0.2			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





REPORT NUMBER: P637844
 CATALOG NUMBER: IFLD-S-SA3A-730-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12621.7	12621.7	12621.7	12621.7	12621.7	12621.7	12621.7	12621.7	12621.7	12621.7
2.5°	12623.0	12571.4	12498.2	12491.4	12529.4	12612.2	12559.2	12561.9	12529.4	12585.0
5°	12424.9	12376.0	12325.8	12259.3	12315.0	12350.3	12323.1	12293.3	12251.2	12305.5
7.5°	12050.4	12023.2	11948.6	11918.7	11952.6	11992.0	11933.6	11925.5	11867.2	11937.7
10°	11477.7	11466.8	11393.6	11375.9	11405.8	11465.5	11439.7	11434.3	11397.6	11390.8
12.5°	10883.3	10841.2	10750.3	10744.9	10789.7	10879.2	10810.0	10743.5	10763.9	10781.5
15°	9352.6	9307.8	9533.1	9887.3	10073.2	10066.4	10086.7	10006.7	9982.2	9990.4
17.5°	7435.1	7359.1	7440.5	7988.8	8872.2	9385.2	9244.0	9071.7	8979.4	8918.3
20°	6417.4	6421.4	6406.5	6547.6	7098.6	8268.3	8234.4	7901.9	7781.2	7731.0
22.5°	5798.6	5775.5	5742.9	5787.7	5935.6	6622.3	7082.3	6777.0	6734.9	6679.3
25°	5192.0	5192.0	5152.6	5197.4	5239.5	5249.0	5710.3	5835.2	5753.8	5753.8
27.5°	4666.8	4639.7	4622.0	4642.4	4586.7	4319.4	4377.8	5016.9	4961.3	4927.3
30°	4145.7	4137.6	4107.7	4134.8	3928.6	3627.3	3505.2	4233.9	4292.3	4280.0
32.5°	3422.4	3455.0	3588.0	3630.0	3277.2	3034.3	2917.6	3514.7	3748.1	3738.6
35°	2325.9	2353.1	2505.1	3007.2	2716.8	2543.1	2509.1	2795.5	3179.5	3216.1
37.5°	1852.3	1848.3	1891.7	1981.3	2183.4	2141.4	2131.9	2206.5	2593.3	2609.6
40°	1526.6	1521.2	1519.9	1446.6	1396.4	1780.4	1754.6	1709.8	2045.0	2077.6
42.5°	1230.8	1236.2	1240.3	1080.2	1006.9	1373.3	1358.4	1312.2	1604.0	1642.0
45°	966.2	964.8	973.0	804.7	784.4	878.0	1015.1	978.4	1210.5	1251.2
47.5°	500.7	518.4	628.3	622.9	632.4	622.9	768.1	758.6	910.6	975.7
50°	336.5	342.0	351.5	352.8	498.0	458.7	521.1	590.3	637.8	738.2
52.5°	260.5	264.6	240.2	225.3	305.3	339.3	342.0	408.5	445.1	546.9
55°	145.2	162.8	175.1	176.4	168.3	251.0	249.7	302.6	331.1	399.0
57.5°	19.0	23.1	35.3	114.0	112.6	139.8	175.1	219.8	236.1	291.8
60°	1.4	2.7	4.1	17.6	74.6	81.4	119.4	137.1	164.2	204.9
62.5°	0.0	0.0	1.4	4.1	14.9	47.5	62.4	71.9	96.3	134.3
65°	0.0	0.0	1.4	2.7	5.4	17.6	24.4	39.4	57.0	82.8
67.5°	0.0	0.0	1.4	2.7	4.1	6.8	10.9	17.6	29.9	50.2
70°	0.0	0.0	1.4	2.7	4.1	5.4	8.1	10.9	16.3	27.1
72.5°	0.0	0.0	1.4	1.4	2.7	6.8	6.8	8.1	10.9	14.9
75°	0.0	0.0	1.4	2.7	4.1	6.8	6.8	6.8	8.1	9.5
77.5°	0.0	0.0	1.4	2.7	4.1	6.8	5.4	6.8	6.8	6.8
80°	0.0	0.0	1.4	2.7	4.1	6.8	8.1	6.8	5.4	5.4
82.5°	0.0	0.0	1.4	4.1	4.1	9.5	9.5	9.5	4.1	4.1
85°	0.0	0.0	2.7	4.1	6.8	10.9	10.9	8.1	4.1	2.7
87.5°	0.0	0.0	1.4	2.7	2.7	5.4	8.1	6.8	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637844

CATALOG NUMBER: IFLD-S-SA3A-730-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
12621.7	0°	12621.7	12621.7	12621.7	12621.7	12621.7	12621.7	12621.7	12621.7	12621.7
12503.6	2.5°	12604.0	12570.1	12633.9	12642.0	12614.9	12580.9	12502.2	12495.5	12358.4
12226.8	5°	12365.2	12309.5	12350.3	12377.4	12367.9	12331.3	12298.7	12268.8	12145.3
11777.6	7.5°	11920.1	11899.7	11918.7	11939.1	11978.4	11939.1	11925.5	11894.3	11772.2
11335.2	10°	11426.1	11388.1	11460.0	11450.5	11439.7	11428.8	11371.8	11377.3	11233.4
10732.7	12.5°	10819.5	10755.8	10825.0	10833.1	10825.0	10787.0	10723.2	10750.3	10618.7
9918.5	15°	10004.0	9997.2	10047.4	10080.0	10103.0	10062.3	10040.6	10054.2	9975.5
8870.8	17.5°	9002.5	9090.7	9254.9	9310.5	9311.9	9353.9	9341.7	9325.5	9267.1
7710.6	20°	7824.6	7994.2	8246.6	8505.8	8580.4	8545.2	8528.9	8558.7	8471.9
6620.9	22.5°	6737.6	6882.8	7175.9	7554.5	7773.0	7794.7	7790.7	7764.9	7731.0
5748.3	25°	5814.8	5943.8	6224.7	6570.7	6990.0	7052.4	7055.2	7047.0	7017.2
4957.2	27.5°	5035.9	5192.0	5346.7	5656.1	6102.5	6360.4	6327.8	6318.3	6307.4
4289.5	30°	4330.3	4527.0	4672.2	4864.9	5265.2	5614.0	5647.9	5631.6	5605.9
3737.2	32.5°	3771.2	3887.9	4072.4	4202.7	4490.4	4885.3	5015.6	5003.3	4980.3
3239.2	35°	3285.3	3331.5	3476.7	3621.9	3813.2	4195.9	4388.6	4361.5	4357.4
2639.4	37.5°	2705.9	2860.6	2940.7	3087.2	3221.6	3518.8	3784.7	3772.5	3773.9
2122.4	40°	2184.8	2274.4	2433.1	2556.6	2680.1	2897.2	3193.1	3201.2	3198.5
1643.4	42.5°	1677.3	1764.1	1931.0	2065.4	2175.3	2309.7	2591.9	2601.4	2613.6
1279.7	45°	1309.5	1365.2	1487.3	1627.1	1743.8	1825.2	2039.6	2100.7	2102.0
992.0	47.5°	1016.4	1080.2	1167.0	1301.4	1415.4	1473.7	1629.8	1712.6	1708.5
761.3	50°	797.9	856.3	926.8	1032.7	1156.2	1202.3	1317.7	1399.1	1395.0
574.0	52.5°	610.7	685.3	747.7	829.1	949.9	989.3	1072.0	1165.7	1152.1
420.7	55°	462.7	538.7	597.1	664.9	774.9	825.1	882.1	956.7	959.4
325.7	57.5°	348.8	427.5	480.4	549.6	632.4	688.0	731.4	811.5	810.1
222.6	60°	249.7	317.5	381.3	453.2	517.0	580.8	610.7	686.7	689.4
157.4	62.5°	180.5	244.3	305.3	367.8	424.7	487.2	514.3	574.0	582.2
103.1	65°	126.2	171.0	241.5	289.0	352.8	399.0	434.2	485.8	495.3
61.1	67.5°	81.4	123.5	191.3	233.4	291.8	331.1	367.8	408.5	420.7
39.4	70°	48.9	93.6	142.5	187.3	240.2	275.5	310.8	346.0	352.8
19.0	72.5°	31.2	65.1	103.1	152.0	192.7	230.7	261.9	287.7	267.3
12.2	75°	17.6	44.8	81.4	119.4	156.1	192.7	218.5	232.1	185.9
8.1	77.5°	10.9	32.6	66.5	96.3	120.8	154.7	171.0	179.1	133.0
5.4	80°	6.8	24.4	55.6	78.7	78.7	114.0	133.0	139.8	96.3
4.1	82.5°	5.4	17.6	43.4	59.7	52.9	85.5	104.5	105.8	67.9
2.7	85°	4.1	13.6	27.1	39.4	36.6	59.7	61.1	67.9	44.8
2.7	87.5°	2.7	8.1	16.3	23.1	20.4	28.5	32.6	36.6	24.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12621.7
12251.2
12046.3
11746.4
11184.6
10580.7
9880.5
9180.3
8409.5
7665.8
6916.7
6243.7
5573.3
4919.2
4312.6
3730.5
3151.0
2572.9
2066.7
1693.6
1395.0
1153.5
959.4
807.4
682.6
579.4
492.6
419.3
347.4
248.3
176.4
124.8
89.6
62.4
40.7
21.7
0.0

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