

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: P637504

Luminaire Tested: **IFLD-S-SA6D-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637504
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35040.2 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

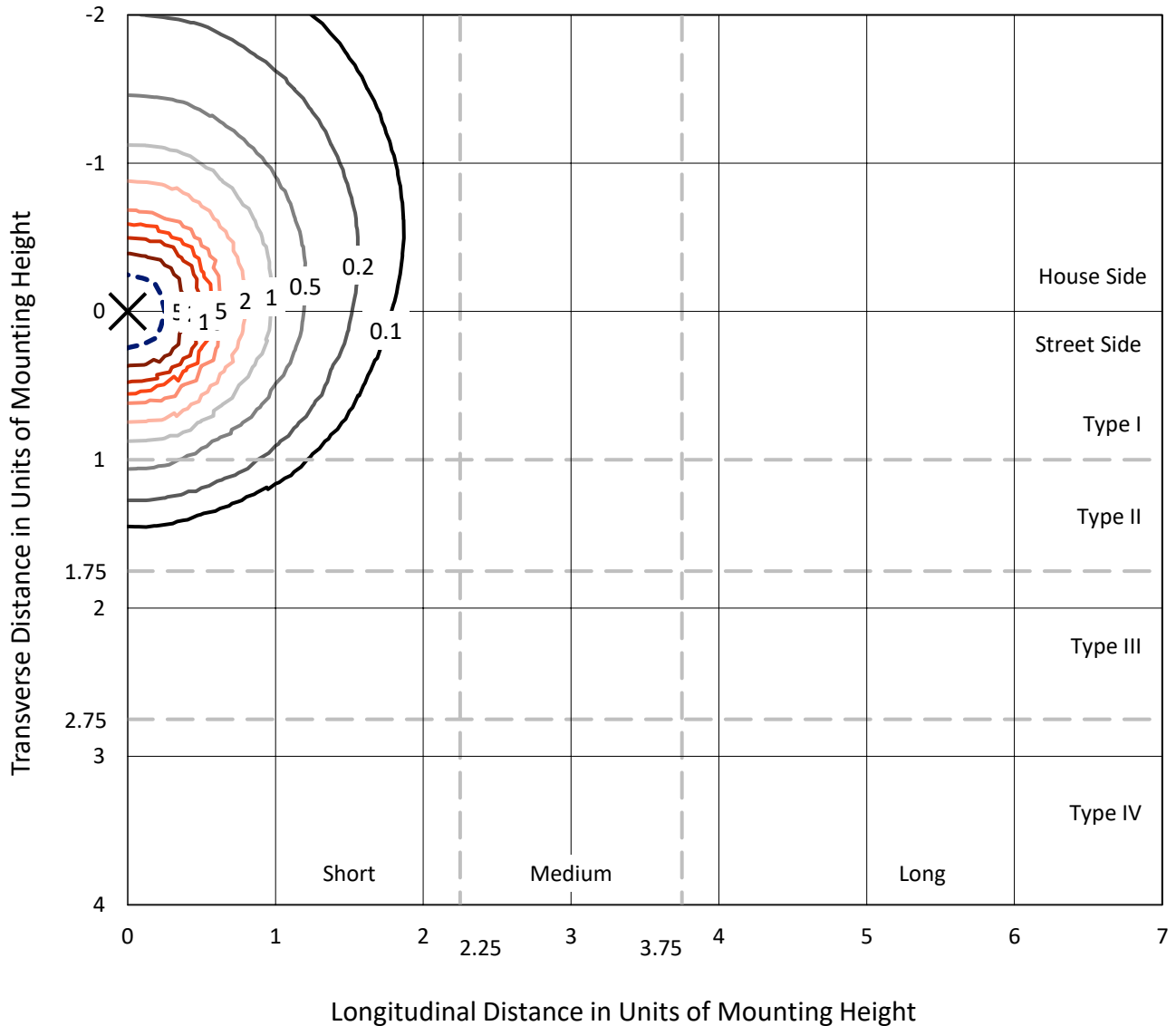
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

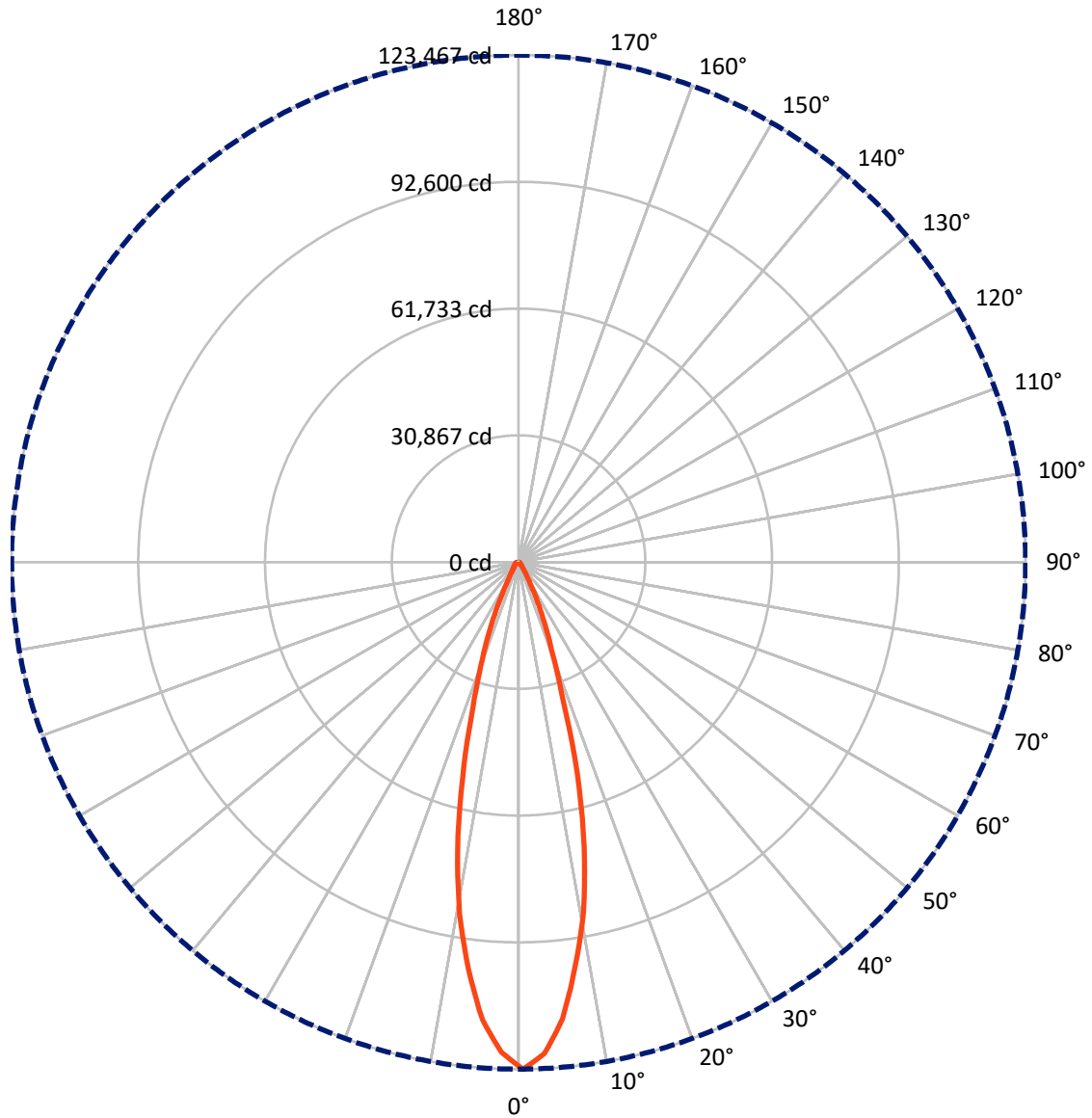
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 308.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18475.6	0.0	18475.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	16564.6	0.0	16564.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	35040.2	0.0	35040.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9964.9	28.4
10°-20°	15091.7	43.1
20°-30°	6368.8	18.2
30°-40°	1661.0	4.7
40°-50°	840.1	2.4
50°-60°	549.1	1.6
60°-70°	329.0	0.9
70°-80°	173.1	0.5
80°-90°	62.5	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°	35040.2	100.0
0°-180°	35040.2	100.0



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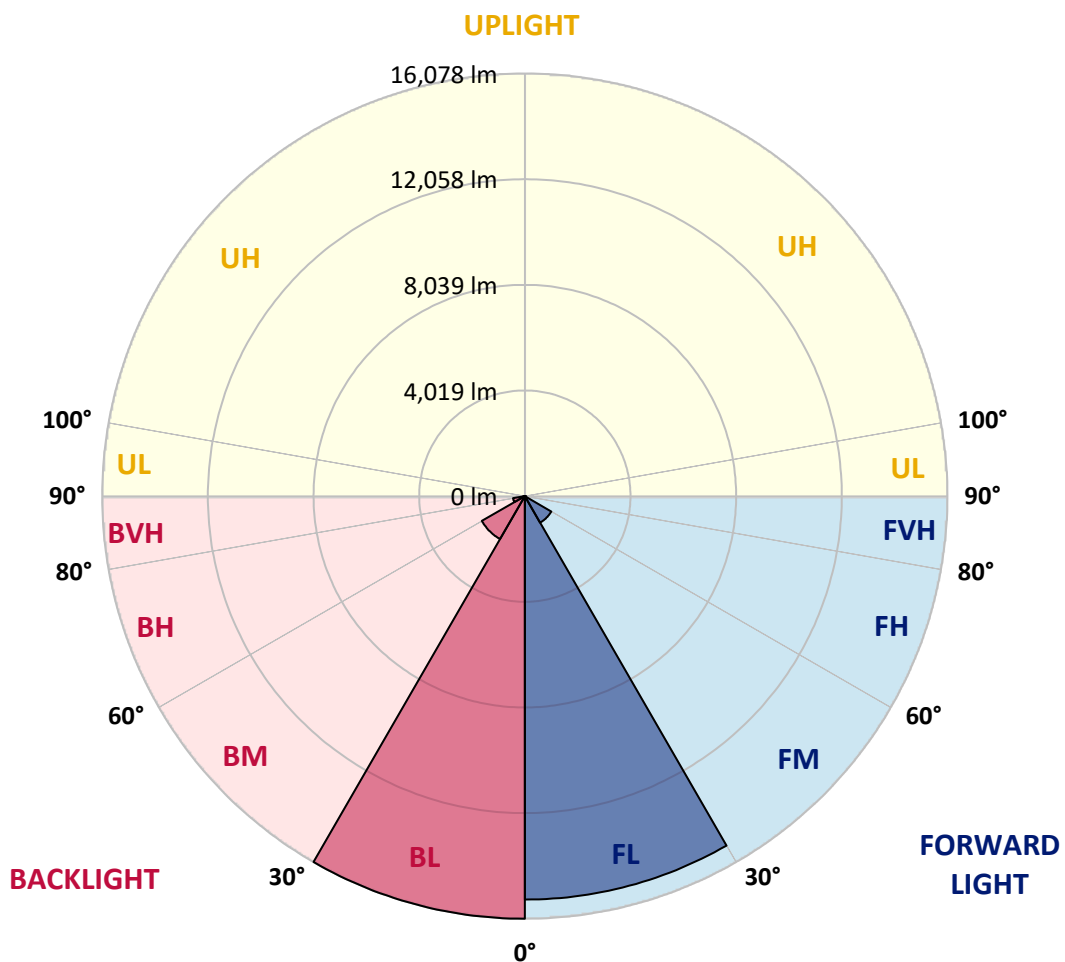
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15347.4	43.8			
FM (30°-60°)	1162.3	3.3			
FH (60°-80°)	47.4	0.1			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	16077.9	45.9	B5		
BM (30°-60°)	1888.0	5.4	B2/2500		
BH (60°-80°)	454.7	1.3	B1/500		G0/660
BVH (80°-90°)	54.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	123466.6	123466.6	123466.6	123466.6	123466.6	123466.6	123466.6	123466.6	123466.6	123466.6
2.5°	119869.9	119936.8	119688.9	120224.1	119807.0	120924.5	120369.7	121235.4	120944.2	121428.2
5°	111685.0	111574.8	111504.0	112334.3	112094.2	113294.4	112527.1	112275.3	113054.4	112912.7
7.5°	99325.0	99616.2	99450.9	99667.3	99789.3	101158.7	101591.6	101253.1	101264.9	101461.7
10°	86654.1	86225.1	85615.2	86020.5	86878.4	87476.5	87236.4	87732.3	87622.1	88090.4
12.5°	71063.3	71401.7	71059.4	70697.4	72196.6	72031.4	72448.5	72720.0	72039.2	73554.2
15°	53528.7	53705.8	54122.9	54095.3	55248.3	55480.5	55425.4	55712.6	55181.4	55433.3
17.5°	34388.5	34986.7	36108.2	38004.9	40137.7	40385.6	40322.6	40086.5	39830.7	39547.4
20°	23098.8	23035.9	23441.2	23996.0	28411.2	29579.9	29544.5	28804.7	27734.3	27529.7
22.5°	16181.0	16299.0	16243.9	16794.9	17707.8	20930.6	20533.2	19781.6	19431.3	19203.1
25°	10644.3	10601.1	10876.5	11041.8	11824.9	12218.4	13611.4	13332.0	12792.9	12851.9
27.5°	6488.9	6544.0	6646.3	6788.0	7342.8	7216.9	8011.8	8118.0	7944.9	7759.9
30°	3982.3	4021.6	4104.3	4206.6	4399.4	4261.7	4482.0	4863.7	4800.8	4670.9
32.5°	2703.4	2707.3	2766.4	2805.7	2782.1	2652.2	2723.1	3085.1	3093.0	3081.2
35°	1943.9	1943.9	1999.0	2030.5	1963.6	1857.4	1869.2	2093.5	2191.8	2211.5
37.5°	1341.9	1345.8	1440.2	1534.7	1459.9	1432.4	1385.1	1534.7	1692.1	1715.7
40°	1019.2	1015.2	1062.5	1133.3	1141.2	1090.0	1105.8	1200.2	1361.5	1381.2
42.5°	826.4	830.3	853.9	846.0	850.0	916.9	940.5	983.8	1133.3	1168.7
45°	696.5	700.4	712.2	672.9	657.2	759.5	790.9	814.6	940.5	983.8
47.5°	574.5	582.4	594.2	550.9	543.0	609.9	665.0	688.6	798.8	846.0
50°	413.2	421.1	464.3	440.7	464.3	480.1	554.8	590.3	665.0	728.0
52.5°	299.1	306.9	318.7	322.7	381.7	389.6	444.7	499.8	535.2	606.0
55°	236.1	244.0	236.1	228.2	279.4	322.7	342.4	401.4	428.9	511.6
57.5°	133.8	141.7	153.5	177.1	184.9	247.9	267.6	318.7	342.4	421.1
60°	23.6	27.5	43.3	106.2	129.9	157.4	200.7	244.0	275.5	330.5
62.5°	3.9	3.9	7.9	23.6	74.8	110.2	145.6	173.1	200.7	251.8
65°	0.0	0.0	3.9	7.9	19.7	63.0	78.7	102.3	137.7	181.0
67.5°	0.0	0.0	3.9	7.9	11.8	23.6	35.4	63.0	78.7	122.0
70°	0.0	0.0	3.9	7.9	11.8	15.7	19.7	27.5	47.2	74.8
72.5°	0.0	0.0	3.9	7.9	11.8	15.7	19.7	23.6	23.6	47.2
75°	0.0	0.0	3.9	7.9	11.8	19.7	23.6	23.6	19.7	19.7
77.5°	0.0	0.0	3.9	7.9	15.7	23.6	27.5	23.6	15.7	15.7
80°	0.0	0.0	7.9	11.8	19.7	27.5	35.4	27.5	15.7	7.9
82.5°	0.0	0.0	7.9	15.7	19.7	31.5	43.3	35.4	15.7	7.9
85°	0.0	0.0	3.9	11.8	23.6	31.5	43.3	31.5	15.7	3.9
87.5°	0.0	0.0	3.9	3.9	7.9	11.8	23.6	19.7	7.9	3.9
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°
123466.6	0°	123466.6	123466.6	123466.6	123466.6	123466.6	123466.6	123466.6	123466.6	123466.6
120511.3	2.5°	121203.9	121833.5	121963.4	121790.2	122042.1	121589.6	121243.3	120346.1	119807.0
112869.5	5°	113597.4	113503.0	114160.2	114376.6	114349.0	114002.8	113518.7	112975.7	112448.4
101080.0	7.5°	101709.6	101831.6	102429.7	102811.4	102618.6	102185.8	101851.3	101442.0	101087.9
88259.6	10°	89066.2	88228.1	88971.8	88971.8	89487.3	88263.5	88377.6	87346.6	87393.8
73526.7	12.5°	73778.5	74081.5	74203.5	74553.7	73951.7	73302.4	72507.5	72350.1	71858.2
54953.2	15°	55744.1	56609.8	55866.1	57137.1	56523.3	55846.4	55724.4	54504.6	54890.2
39858.3	17.5°	39661.5	40617.7	40916.8	41644.8	41086.0	40684.6	40177.0	39807.1	39779.6
27903.5	20°	28123.9	29084.1	29304.4	30178.0	30115.0	29989.1	29560.2	29091.9	28584.3
18994.6	22.5°	19281.8	20064.9	20796.8	21973.4	21953.7	21583.8	21540.5	20879.5	20891.3
12832.2	25°	12966.0	13536.6	13709.8	14913.9	15047.7	15008.3	14784.0	14170.2	14402.3
7838.6	27.5°	7846.5	8346.3	8932.6	9357.6	9759.0	9696.0	9471.7	9129.3	8979.8
4710.3	30°	4836.2	5060.5	5276.9	5788.5	6028.5	6154.4	6048.2	5729.5	5753.1
3100.8	32.5°	3167.7	3356.6	3514.0	3836.7	3962.6	4194.8	4151.5	4084.6	4005.9
2231.2	35°	2309.9	2447.6	2553.9	2703.4	2864.7	3061.5	3093.0	3065.4	3033.9
1723.6	37.5°	1762.9	1904.6	2026.6	2089.5	2215.4	2368.9	2455.5	2451.5	2427.9
1404.8	40°	1432.4	1538.6	1648.8	1731.4	1818.0	1932.1	2038.4	2050.2	2050.2
1180.5	42.5°	1196.3	1286.8	1396.9	1483.5	1546.5	1652.7	1762.9	1770.8	1762.9
999.5	45°	1023.1	1101.8	1208.1	1310.4	1361.5	1440.2	1546.5	1570.1	1554.4
857.8	47.5°	889.3	960.2	1050.7	1160.8	1215.9	1286.8	1385.1	1412.7	1408.8
739.8	50°	763.4	846.0	936.5	1027.1	1097.9	1164.8	1259.2	1290.7	1278.9
629.6	52.5°	672.9	747.7	826.4	924.7	1007.4	1066.4	1141.2	1196.3	1180.5
531.2	55°	562.7	653.2	735.9	818.5	920.8	983.8	1054.6	1121.5	1105.8
448.6	57.5°	487.9	562.7	657.2	731.9	834.2	909.0	979.8	1050.7	1046.7
366.0	60°	409.2	487.9	578.5	657.2	751.6	834.2	905.1	983.8	991.6
275.5	62.5°	322.7	417.1	495.8	586.3	680.8	771.3	834.2	912.9	924.7
208.6	65°	244.0	342.4	428.9	515.5	609.9	708.3	763.4	830.3	842.1
153.5	67.5°	181.0	263.6	366.0	444.7	543.0	637.5	688.6	743.7	763.4
94.4	70°	137.7	200.7	306.9	381.7	484.0	558.8	613.9	661.1	676.8
63.0	72.5°	86.6	157.4	247.9	326.6	417.1	484.0	523.4	550.9	574.5
35.4	75°	59.0	122.0	200.7	279.4	346.3	397.4	432.9	456.5	476.1
15.7	77.5°	35.4	94.4	165.3	232.2	275.5	314.8	350.2	366.0	377.8
11.8	80°	19.7	70.8	137.7	188.9	216.4	244.0	271.5	291.2	299.1
7.9	82.5°	11.8	55.1	110.2	145.6	157.4	184.9	212.5	224.3	224.3
3.9	85°	7.9	39.4	74.8	106.2	114.1	133.8	141.7	149.5	157.4
3.9	87.5°	7.9	23.6	47.2	59.0	63.0	70.8	74.8	82.6	90.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
123466.6
119409.5
111858.1
99887.7
86933.4
71409.6
54504.6
39047.6
28363.9
20663.0
14036.4
8850.0
5650.8
3978.4
3022.1
2416.1
2026.6
1755.0
1554.4
1400.9
1271.0
1176.6
1113.6
1050.7
995.6
932.6
853.9
771.3
684.7
570.6
472.2
373.8
291.2
220.4
153.5
86.6
0.0

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