

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: P637244

Luminaire Tested: **IFLD-S-SA6E-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637244
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41812.6 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

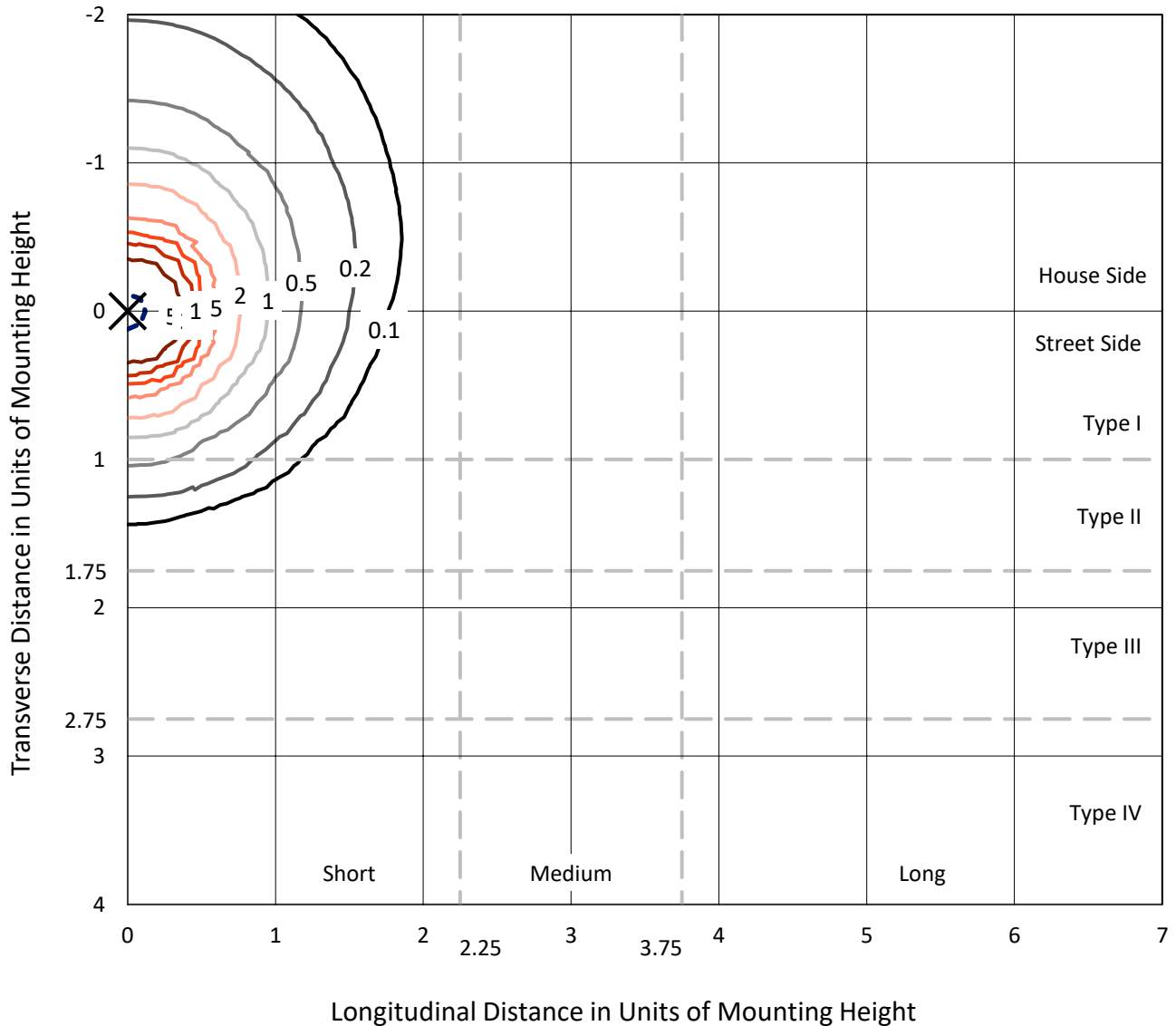
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637244
 CATALOG NUMBER: IFLD-S-SA6E-830-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

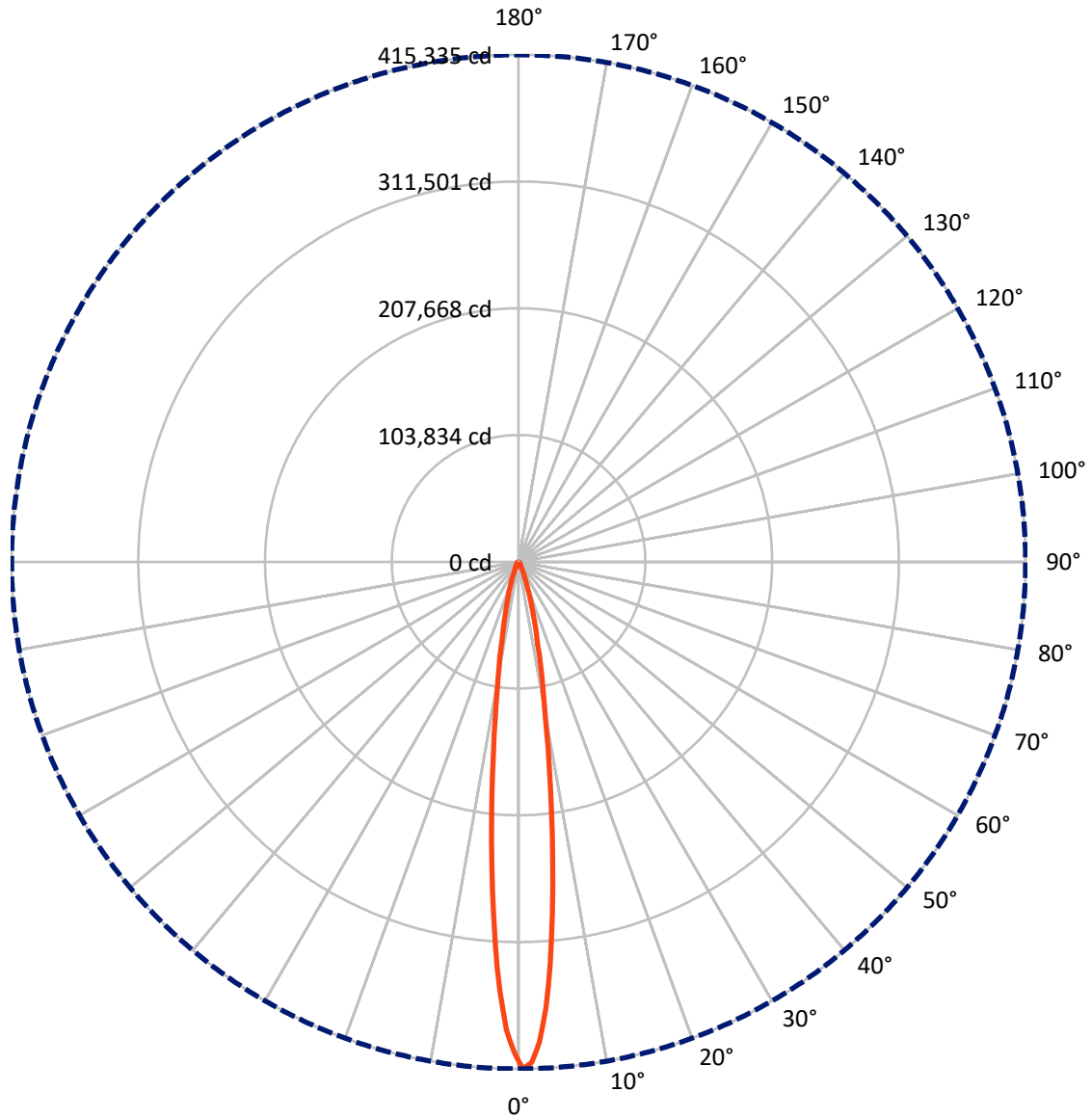
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1038.3 fc
 Type V - Short - N/A

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CATALOG NUMBER: IFLD-S-SA6E-830-U-33-VI

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	21415.7	0.0	21415.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	20397.0	0.0	20397.0
	% Fixture	48.8	0.0	48.8
Total	Lumens	41812.6	0.0	41812.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21108.3	50.5
10°-20°	13513.4	32.3
20°-30°	4061.9	9.7
30°-40°	1322.6	3.2
40°-50°	769.5	1.8
50°-60°	511.1	1.2
60°-70°	307.7	0.7
70°-80°	158.2	0.4
80°-90°	60.1	0.1
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°	41812.6	100.0
0°-180°	41812.6	100.0

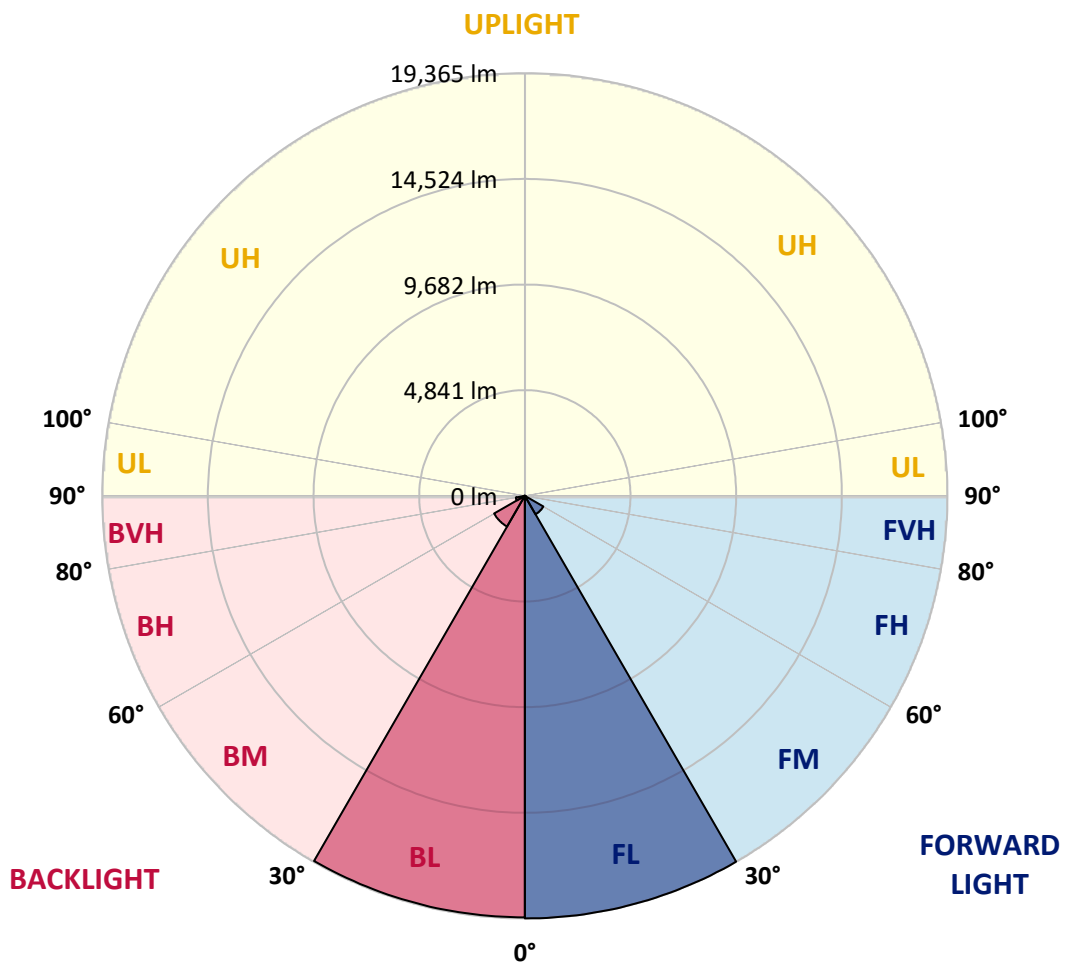


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19364.7	46.3			
FM (30°-60°)	977.2	2.3			
FH (60°-80°)	46.0	0.1			G0/660
FVH (80°-90°)	9.1	0.0			G0/10
BL (0°-30°)	19318.8	46.2	B5		
BM (30°-60°)	1626.0	3.9	B2/2500		
BH (60°-80°)	419.8	1.0	B1/500		G0/660
BVH (80°-90°)	51.0	0.1			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°	415335.0	415335.0	415335.0	415335.0	415335.0	415335.0	415335.0	415335.0	415335.0	415335.0
1°	410362.0	409109.6	405876.3	408176.1	410198.1	409610.6	409569.6	409351.0	409045.9	411441.3
2°	393958.3	393147.7	388365.9	390337.8	393211.4	391116.5	392428.1	391275.9	391298.7	394158.7
3°	366306.0	366747.8	359119.7	362703.7	366697.7	361619.9	363195.6	366155.7	363054.4	362120.8
4°	330365.3	326530.8	322363.9	326007.1	327040.9	324085.3	326990.8	330615.8	326307.7	326498.9
5°	289333.2	286500.6	281568.6	283818.3	281254.3	282187.9	286541.6	288035.3	285029.7	281245.2
6°	247144.4	245131.5	238965.3	242207.8	241297.0	240768.7	246265.5	241711.4	243350.9	241060.2
7°	205574.9	201813.3	198784.8	201890.7	202091.1	200501.7	207637.9	206809.1	203826.2	203134.0
8°	170321.9	166569.4	164005.4	166318.9	167830.9	165335.2	168691.6	170895.7	168564.1	168773.6
9°	137373.3	136713.0	133147.1	136171.0	137815.0	135141.8	138857.9	139654.9	137473.5	138534.6
10°	112795.0	112025.4	109179.1	110404.1	113127.5	109939.6	113505.5	113765.0	112025.4	112521.8
12.5°	69704.5	69394.8	69317.4	69495.0	69458.6	70023.3	70934.1	69895.7	69759.1	68042.2
15°	45053.3	45513.3	45039.7	45950.5	46082.6	46615.4	46059.8	45221.8	43623.4	42831.0
17.5°	28116.8	28704.3	29514.9	30849.2	32183.6	32338.4	31600.6	30617.0	29842.8	28995.7
20°	16176.0	16462.9	16340.0	17938.5	21390.4	22328.6	21376.8	20343.0	19409.4	18553.3
22.5°	10050.8	9946.1	10137.3	10674.7	11799.6	14700.5	13921.8	12888.0	12209.4	11503.6
25°	6161.6	6275.5	6202.6	6498.6	7004.1	8233.7	8411.4	7965.1	7618.9	7254.6
27.5°	3966.6	3966.6	3998.5	4162.4	4508.5	4467.5	5414.8	5068.7	4882.0	4704.3
30°	2755.2	2764.3	2764.3	2860.0	2937.4	2800.7	3046.7	3493.0	3406.4	3269.8
32.5°	2044.8	2072.1	2094.9	2145.0	2081.2	1935.5	1994.7	2513.8	2463.7	2413.7
35°	1557.5	1580.3	1634.9	1662.2	1571.2	1480.1	1425.4	1848.9	1871.7	1858.1
37.5°	1134.0	1147.6	1247.8	1352.6	1247.8	1165.8	1134.0	1420.9	1530.2	1516.5
40°	869.8	874.4	892.6	1011.0	1011.0	947.2	956.4	1061.1	1252.4	1252.4
42.5°	746.9	746.9	765.1	746.9	751.4	819.7	842.5	856.2	1061.1	1061.1
45°	646.7	646.7	655.8	610.2	564.7	705.9	724.1	728.6	892.6	915.4
47.5°	541.9	541.9	560.1	500.9	478.2	560.1	610.2	623.9	769.6	787.9
50°	400.8	405.3	460.0	409.9	423.5	432.6	528.3	537.4	651.2	692.2
52.5°	268.7	268.7	277.8	318.8	368.9	355.2	428.1	460.0	519.2	573.8
55°	218.6	218.6	214.0	204.9	273.2	296.0	314.2	382.5	423.5	491.8
57.5°	150.3	159.4	145.7	168.5	177.6	223.1	236.8	300.6	323.3	414.4
60°	18.2	22.8	31.9	123.0	118.4	150.3	177.6	236.8	264.1	318.8
62.5°	4.6	4.6	9.1	22.8	82.0	100.2	141.2	163.9	191.3	245.9
65°	0.0	0.0	4.6	9.1	18.2	54.6	72.9	95.6	136.6	173.1
67.5°	0.0	0.0	4.6	9.1	9.1	22.8	36.4	59.2	72.9	127.5
70°	0.0	0.0	4.6	9.1	9.1	18.2	22.8	27.3	50.1	68.3
72.5°	0.0	0.0	4.6	9.1	13.7	18.2	22.8	22.8	22.8	45.5
75°	0.0	0.0	4.6	9.1	13.7	18.2	22.8	22.8	18.2	18.2
77.5°	0.0	0.0	4.6	9.1	18.2	22.8	27.3	22.8	13.7	13.7
80°	0.0	0.0	4.6	13.7	22.8	31.9	36.4	27.3	13.7	9.1
82.5°	0.0	0.0	9.1	18.2	27.3	36.4	50.1	41.0	18.2	9.1
85°	0.0	0.0	4.6	13.7	27.3	36.4	72.9	50.1	22.8	4.6
87.5°	0.0	0.0	0.0	4.6	4.6	9.1	27.3	18.2	9.1	4.6
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°
415335.0	0°	415335.0	415335.0	415335.0	415335.0	415335.0	415335.0	415335.0	415335.0
408677.0	1°	411532.4	411819.3	410881.2	412333.9	411823.9	408836.4	407848.2	406677.8
392478.2	2°	391275.9	392737.8	392810.7	394422.8	394400.0	390916.2	389836.8	391827.0
364015.3	3°	362913.2	364616.5	363081.7	365946.2	365085.5	360859.3	359761.8	362020.6
328010.9	4°	327031.8	326708.4	326180.2	324549.8	326558.2	323675.4	321503.1	324568.0
286263.8	5°	285690.0	284970.5	283941.2	283458.5	284952.2	283107.8	278640.3	283117.0
245204.4	6°	245504.9	242408.2	242257.9	241989.2	242139.5	236975.2	237284.9	240618.4
200752.2	7°	202874.4	203443.6	202282.3	204145.0	202724.1	199226.6	197878.6	201389.7
169693.5	8°	168509.4	167789.9	166901.8	169684.4	167220.6	164925.4	163354.2	166127.6
138707.6	9°	138448.1	137204.8	136303.1	136161.9	136544.5	132236.3	133110.7	135210.1
112795.0	10°	112836.0	110795.8	111292.2	111424.2	111005.3	108181.8	108209.1	108933.2
69180.8	12.5°	68934.8	67932.9	68183.4	68320.0	69171.7	68178.9	66776.2	65765.2
43618.8	15°	43327.3	42607.8	44078.8	45067.0	44866.6	43983.1	43322.8	42407.4
28995.7	17.5°	28727.0	29669.7	29674.3	30576.0	30667.1	29783.6	29273.5	28449.2
18858.4	20°	18790.1	19181.7	19996.9	20634.5	21003.3	20329.3	19719.1	19154.4
11758.6	22.5°	11758.6	12441.7	12951.8	13780.6	14117.6	13625.8	13193.1	12733.2
7341.1	25°	7218.2	7705.5	8129.0	8848.5	9308.5	9071.7	8675.5	8352.2
4740.8	27.5°	4813.6	5018.6	5228.1	5724.5	6202.6	6070.6	5911.2	5715.3
3342.7	30°	3392.8	3411.0	3634.1	3911.9	4230.7	4312.7	4239.8	4139.6
2454.6	32.5°	2500.2	2573.0	2677.8	2850.8	3064.9	3260.7	3224.3	3178.7
1876.3	35°	1930.9	2040.2	2126.7	2258.8	2372.7	2559.4	2591.3	2577.6
1543.8	37.5°	1575.7	1671.3	1757.9	1835.3	1930.9	2058.4	2158.6	2163.2
1275.1	40°	1307.0	1393.5	1507.4	1566.6	1634.9	1730.5	1853.5	1862.6
1079.3	42.5°	1102.1	1184.1	1297.9	1370.8	1420.9	1511.9	1634.9	1653.1
924.5	45°	947.2	997.3	1115.7	1202.3	1252.4	1311.6	1443.6	1461.9
797.0	47.5°	824.3	874.4	947.2	1070.2	1115.7	1170.4	1275.1	1307.0
705.9	50°	724.1	774.2	837.9	947.2	1015.6	1061.1	1147.6	1193.2
614.8	52.5°	642.1	692.2	760.5	847.1	924.5	965.5	1047.4	1106.6
500.9	55°	537.4	623.9	674.0	751.4	856.2	892.6	956.4	1033.8
437.2	57.5°	469.1	541.9	614.8	678.6	783.3	828.8	892.6	965.5
346.1	60°	396.2	464.5	551.0	605.7	705.9	765.1	833.4	901.7
264.1	62.5°	314.2	405.3	464.5	541.9	637.6	715.0	769.6	837.9
204.9	65°	232.3	332.4	400.8	482.7	573.8	655.8	701.3	774.2
145.7	67.5°	168.5	259.6	341.6	419.0	505.5	587.5	633.0	696.8
91.1	70°	132.1	191.3	282.4	350.7	441.7	510.1	560.1	601.1
59.2	72.5°	77.4	145.7	227.7	305.1	387.1	432.6	469.1	505.5
27.3	75°	50.1	113.9	186.7	255.0	314.2	355.2	387.1	419.0
13.7	77.5°	31.9	82.0	150.3	214.0	241.4	291.5	318.8	337.0
9.1	80°	18.2	63.8	132.1	173.1	195.8	227.7	255.0	277.8
9.1	82.5°	13.7	54.6	109.3	145.7	145.7	182.2	195.8	195.8
4.6	85°	9.1	45.5	86.5	136.6	109.3	136.6	127.5	127.5
4.6	87.5°	9.1	31.9	41.0	59.2	50.1	59.2	59.2	68.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
415335.0
402041.7
383397.4
351988.0
313474.3
271321.9
230954.7
191839.9
158208.1
128652.3
104005.7
65150.4
41938.4
28244.3
18958.6
12487.2
8165.4
5601.5
4071.3
3142.3
2532.1
2131.3
1848.9
1639.5
1457.3
1311.6
1197.7
1106.6
1038.3
970.0
919.9
869.8
787.9
701.3
614.8
514.6
419.0
327.9
250.5
182.2
123.0
68.3
0.0

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