

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: P636437

Luminaire Tested: **IFLD-M-SA4E-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636437
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18966.9 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 314.8
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



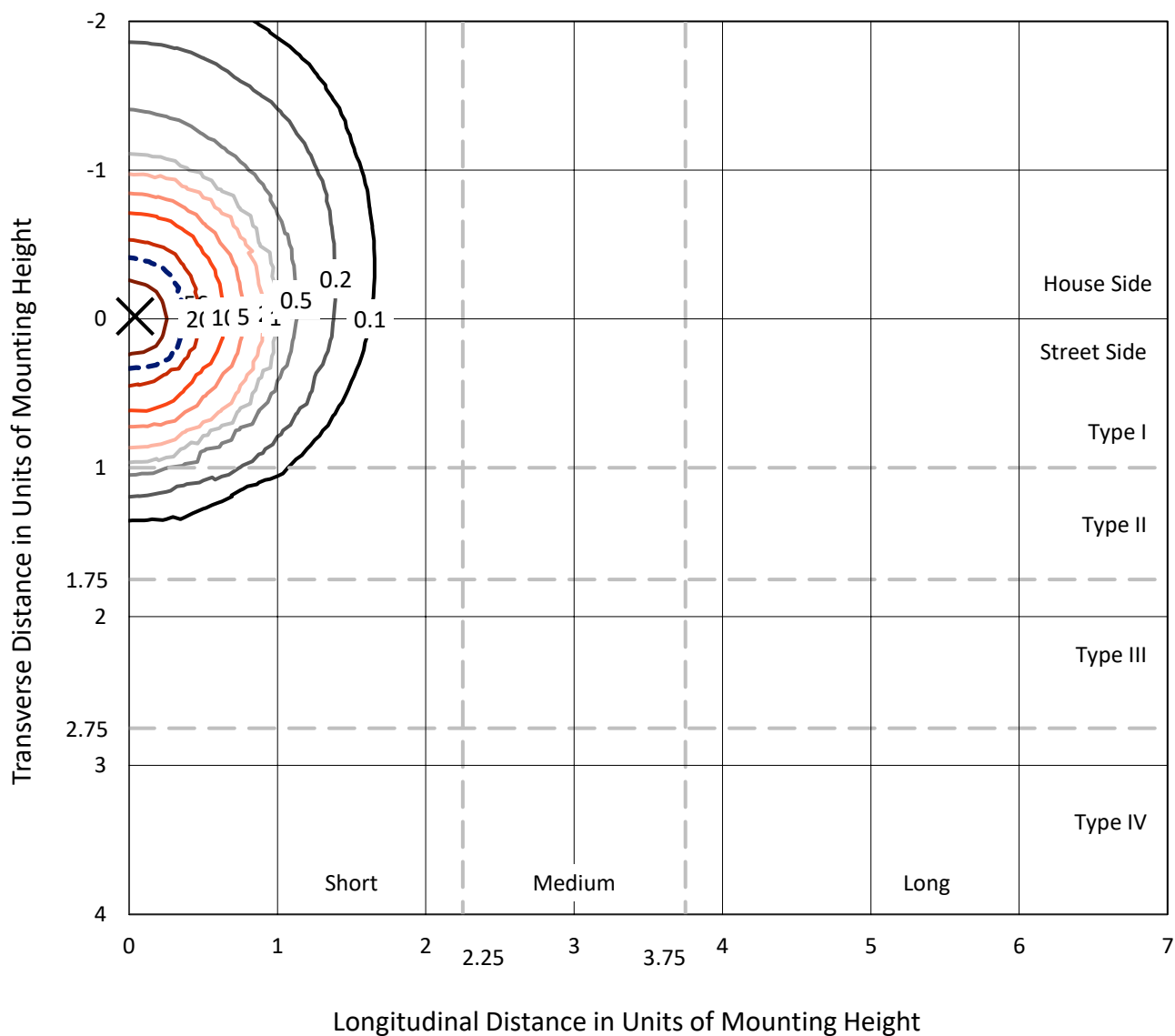
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

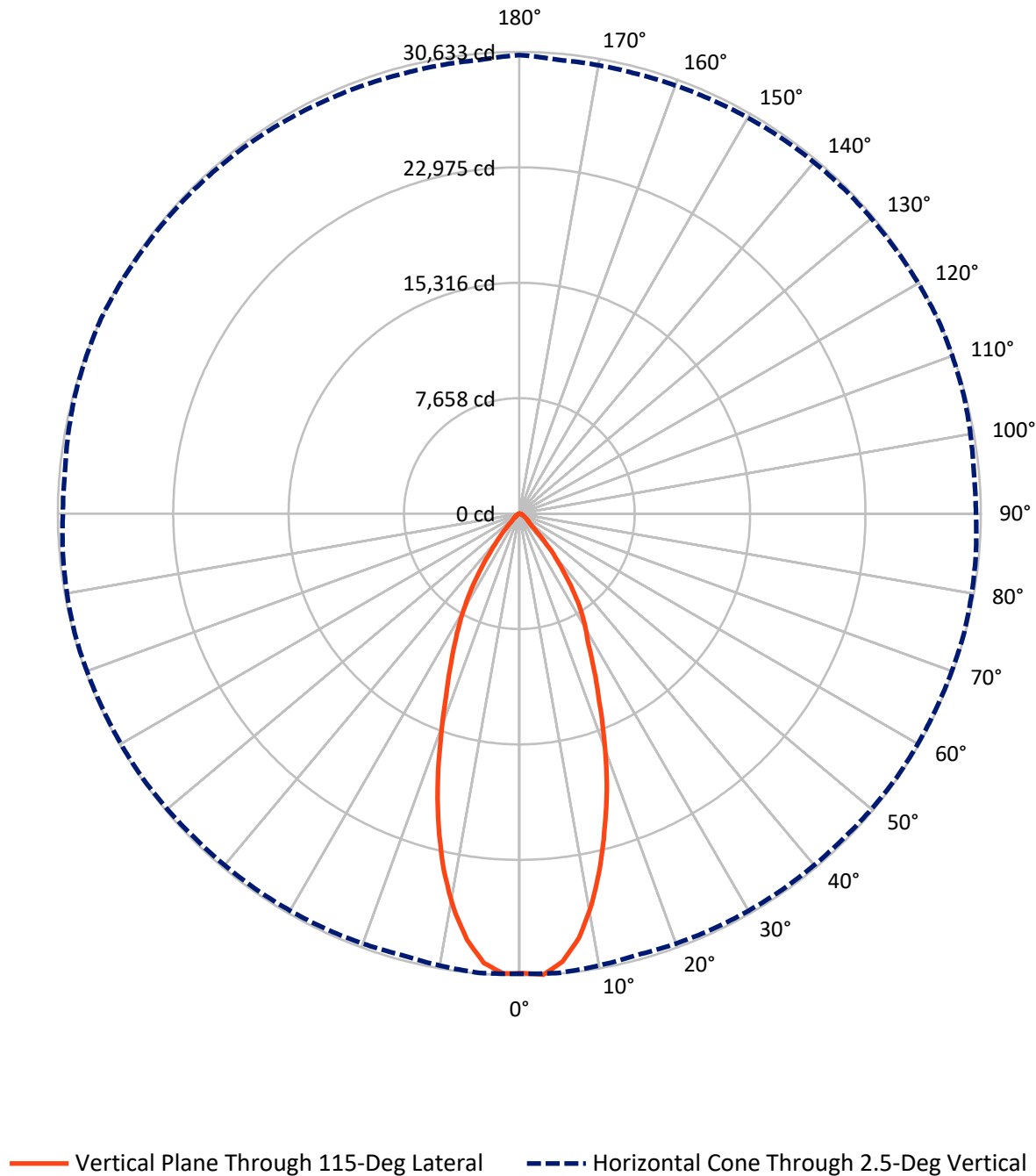


Based on 20 foot mounting height. Maximum calculated value = 76.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10467.5	0.0	10467.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8499.4	0.0	8499.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	18966.9	0.0	18966.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2734.7	14.4
10°-20°	5779.6	30.5
20°-30°	5216.5	27.5
30°-40°	3452.0	18.2
40°-50°	1034.1	5.5
50°-60°	414.8	2.2
60°-70°	214.8	1.1
70°-80°	93.3	0.5
80°-90°	27.1	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°	18966.9	100.0
0°-180°	18966.9	100.0

Coefficient of Utilization



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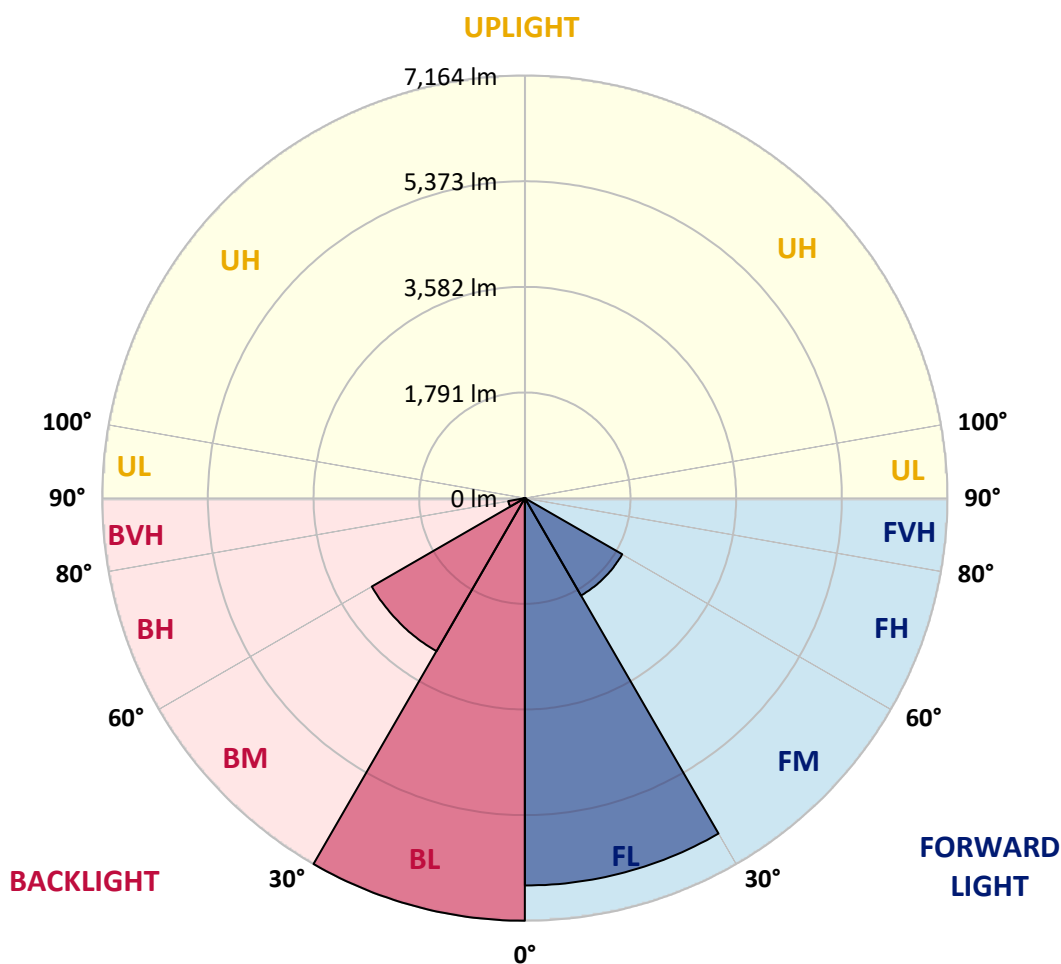
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6566.5	34.6			
FM	(30°-60°)	1905.4	10.0			
FH	(60°-80°)	23.6	0.1			G0/660
FVH	(80°-90°)	3.9	0.0			G0/10
BL	(0°-30°)	7164.3	37.8	B5		
BM	(30°-60°)	2995.5	15.8	B3/5000		
BH	(60°-80°)	284.5	1.5	B1/500		G1/500
BVH	(80°-90°)	23.2	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	30489.2	30489.2	30489.2	30489.2	30489.2	30489.2	30489.2	30489.2	30489.2	30489.2
2.5°	30528.0	30582.3	30310.8	30403.9	30442.7	30454.3	30551.3	30535.8	30562.9	30419.4
5°	30124.6	30019.9	29818.2	29822.1	29810.4	29701.8	29922.9	29907.4	29860.8	29690.2
7.5°	28751.4	28902.7	28522.6	28514.8	28507.1	28375.2	28666.1	28487.7	28526.5	28282.1
10°	26742.1	26761.5	26424.0	26393.0	26420.1	26249.5	26586.9	26517.1	26590.8	26334.8
12.5°	24278.9	24387.5	24015.1	23960.8	24069.4	23828.9	24100.5	24135.4	24026.8	23991.9
15°	19042.2	19329.3	20035.2	21113.6	21392.9	21191.2	21408.4	21404.5	21451.1	21187.3
17.5°	14507.6	14534.8	14368.0	14883.9	17870.7	18840.5	18887.0	18518.5	18239.2	18142.3
20°	12665.1	12758.2	12606.9	12649.5	13126.7	15970.0	16078.6	15523.9	15046.8	15008.0
22.5°	11198.8	11257.0	11148.4	11183.3	11206.5	11540.1	13429.2	12940.5	12711.6	12537.1
25°	9957.5	9957.5	9899.3	9910.9	9887.7	9395.0	10364.8	10923.4	10791.5	10729.4
27.5°	8824.8	8840.3	8766.6	8809.3	8526.1	7730.9	7614.6	9263.1	9123.5	9011.0
30°	7750.3	7800.7	7730.9	7754.2	7137.4	6485.8	6152.2	7727.0	7901.6	7870.6
32.5°	5834.1	6062.9	6625.4	6648.7	5810.8	5310.4	5163.0	6202.6	6865.9	6807.7
35°	3615.3	3603.6	3626.9	4744.1	4457.0	4115.7	4170.0	4685.9	5434.5	5407.4
37.5°	2758.0	2754.1	2796.8	2684.3	2920.9	3122.6	3165.3	3165.3	3968.3	3972.1
40°	2090.8	2075.3	2071.4	1893.0	1586.5	2342.9	2273.1	2214.9	2758.0	2816.2
42.5°	1334.4	1380.9	1346.0	1152.1	1035.7	1280.1	1427.5	1380.9	1702.9	1745.6
45°	744.8	744.8	713.7	605.1	601.3	647.8	814.6	760.3	872.8	931.0
47.5°	360.8	353.0	387.9	477.1	496.5	481.0	581.9	605.1	659.4	713.7
50°	290.9	290.9	275.4	248.3	411.2	395.7	430.6	461.6	492.6	539.2
52.5°	244.4	244.4	225.0	209.5	236.6	302.6	306.4	364.6	360.8	426.7
55°	124.1	128.0	182.3	182.3	159.0	248.3	252.1	294.8	302.6	356.9
57.5°	11.6	15.5	23.3	112.5	124.1	135.8	190.1	217.2	252.1	275.4
60°	3.9	3.9	7.8	15.5	73.7	93.1	120.3	143.5	174.6	228.9
62.5°	0.0	0.0	3.9	7.8	15.5	58.2	65.9	73.7	104.7	143.5
65°	0.0	0.0	3.9	3.9	7.8	19.4	27.2	46.5	65.9	89.2
67.5°	0.0	0.0	3.9	3.9	7.8	11.6	15.5	23.3	31.0	58.2
70°	0.0	0.0	3.9	3.9	7.8	11.6	11.6	15.5	19.4	27.2
72.5°	0.0	0.0	3.9	3.9	7.8	15.5	11.6	11.6	15.5	19.4
75°	0.0	0.0	3.9	3.9	7.8	11.6	11.6	11.6	11.6	11.6
77.5°	0.0	0.0	3.9	3.9	7.8	11.6	11.6	11.6	7.8	7.8
80°	0.0	0.0	3.9	3.9	7.8	11.6	15.5	15.5	7.8	7.8
82.5°	0.0	0.0	3.9	7.8	7.8	19.4	23.3	19.4	7.8	3.9
85°	0.0	0.0	3.9	3.9	11.6	19.4	19.4	11.6	7.8	3.9
87.5°	0.0	0.0	0.0	3.9	3.9	7.8	11.6	11.6	3.9	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°
30489.2	0°	30489.2	30489.2	30489.2	30489.2	30489.2	30489.2	30489.2	30489.2	30489.2
30303.1	2.5°	30287.5	30524.2	30632.8	30520.3	30466.0	30388.4	30275.9	30198.3	30213.8
29597.1	5°	29531.1	29779.4	29864.7	29767.7	29686.3	29643.6	29624.2	29663.0	29763.9
28177.3	7.5°	28169.6	28328.6	28421.7	28375.2	28262.7	28390.7	28425.6	28402.3	28549.7
26257.2	10°	26265.0	26439.5	26354.2	26373.6	26241.7	26307.6	26288.2	26373.6	26521.0
23964.7	12.5°	23809.5	23976.3	23910.4	23898.8	23759.1	23883.2	23805.7	23898.8	24092.7
21078.7	15°	21230.0	21334.7	21292.0	21226.1	21102.0	21144.6	21385.1	21369.6	21455.0
18084.1	17.5°	18006.5	18510.8	18786.2	18844.4	18743.5	18828.9	18999.5	18956.9	19150.8
14926.5	20°	14899.4	15407.5	16086.4	16637.2	16648.8	16660.5	16769.1	16796.2	16963.0
12540.9	22.5°	12486.6	12847.4	13576.6	14305.9	14810.2	14914.9	14903.3	14942.1	14988.6
10644.1	25°	10616.9	10880.7	11547.9	12052.2	12936.6	13231.4	13316.7	13231.4	13258.6
8972.2	27.5°	9073.1	9476.5	9697.6	10236.8	11101.8	11784.5	11757.4	11706.9	11714.7
7808.5	30°	7804.6	8239.1	8564.9	8727.8	9379.5	10364.8	10465.6	10322.1	10326.0
6780.6	32.5°	6737.9	6873.7	7354.7	7486.5	7905.5	8801.5	9146.8	9038.2	9018.8
5422.9	35°	5581.9	5655.6	5876.7	6136.6	6384.9	7063.7	7633.9	7533.1	7583.5
3987.7	37.5°	3972.1	4274.7	4488.0	4701.4	4879.8	5306.5	5993.1	5900.0	5950.4
2823.9	40°	2800.7	2936.4	3304.9	3398.0	3661.8	3859.6	4441.5	4410.5	4472.5
1753.3	42.5°	1722.3	1819.3	2005.5	2094.7	2273.1	2385.6	2727.0	2765.8	2847.2
969.8	45°	977.5	1020.2	1148.2	1245.2	1377.1	1423.6	1543.9	1598.2	1644.7
752.5	47.5°	744.8	791.3	876.7	962.0	1070.6	1109.4	1194.7	1276.2	1318.9
581.9	50°	609.0	651.7	740.9	810.7	919.3	954.2	1024.1	1113.3	1167.6
442.2	52.5°	461.6	523.7	632.3	706.0	818.5	861.1	927.1	1016.3	1066.7
364.6	55°	380.1	426.7	523.7	624.5	729.3	787.4	830.1	938.7	993.0
298.7	57.5°	325.8	360.8	422.8	543.1	632.3	717.6	752.5	853.4	907.7
236.6	60°	248.3	302.6	356.9	450.0	550.8	640.0	678.8	768.0	810.7
170.7	62.5°	205.6	240.5	310.3	360.8	473.2	566.3	605.1	686.6	717.6
112.5	65°	143.5	194.0	259.9	290.9	395.7	484.9	539.2	601.3	632.3
65.9	67.5°	85.3	143.5	205.6	248.3	322.0	411.2	469.4	527.5	554.7
38.8	70°	54.3	112.5	162.9	209.5	252.1	337.5	407.3	457.7	446.1
23.3	72.5°	31.0	69.8	120.3	170.7	209.5	283.2	349.1	387.9	275.4
15.5	75°	19.4	50.4	100.9	139.6	170.7	225.0	287.0	294.8	170.7
7.8	77.5°	15.5	38.8	77.6	112.5	116.4	166.8	201.7	228.9	128.0
7.8	80°	7.8	31.0	65.9	93.1	73.7	116.4	155.2	178.4	100.9
3.9	82.5°	7.8	19.4	50.4	65.9	54.3	89.2	112.5	128.0	85.3
3.9	85°	3.9	15.5	27.2	38.8	38.8	58.2	50.4	62.1	54.3
3.9	87.5°	3.9	7.8	15.5	19.4	15.5	23.3	27.2	27.2	23.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
30489.2
30423.3
29973.3
28697.1
26579.2
24127.6
21474.4
19119.8
16928.1
14903.3
13215.9
11726.3
10329.9
9065.3
7630.1
5993.1
4495.8
2940.3
1640.8
1338.3
1190.9
1101.6
1008.6
931.0
818.5
721.5
632.3
550.8
411.2
244.4
159.0
128.0
104.7
93.1
54.3
19.4
0.0

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