

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: P636499

Luminaire Tested: **IFLD-L-SA7D-935-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636499
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-935-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26801.6 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 422.6
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



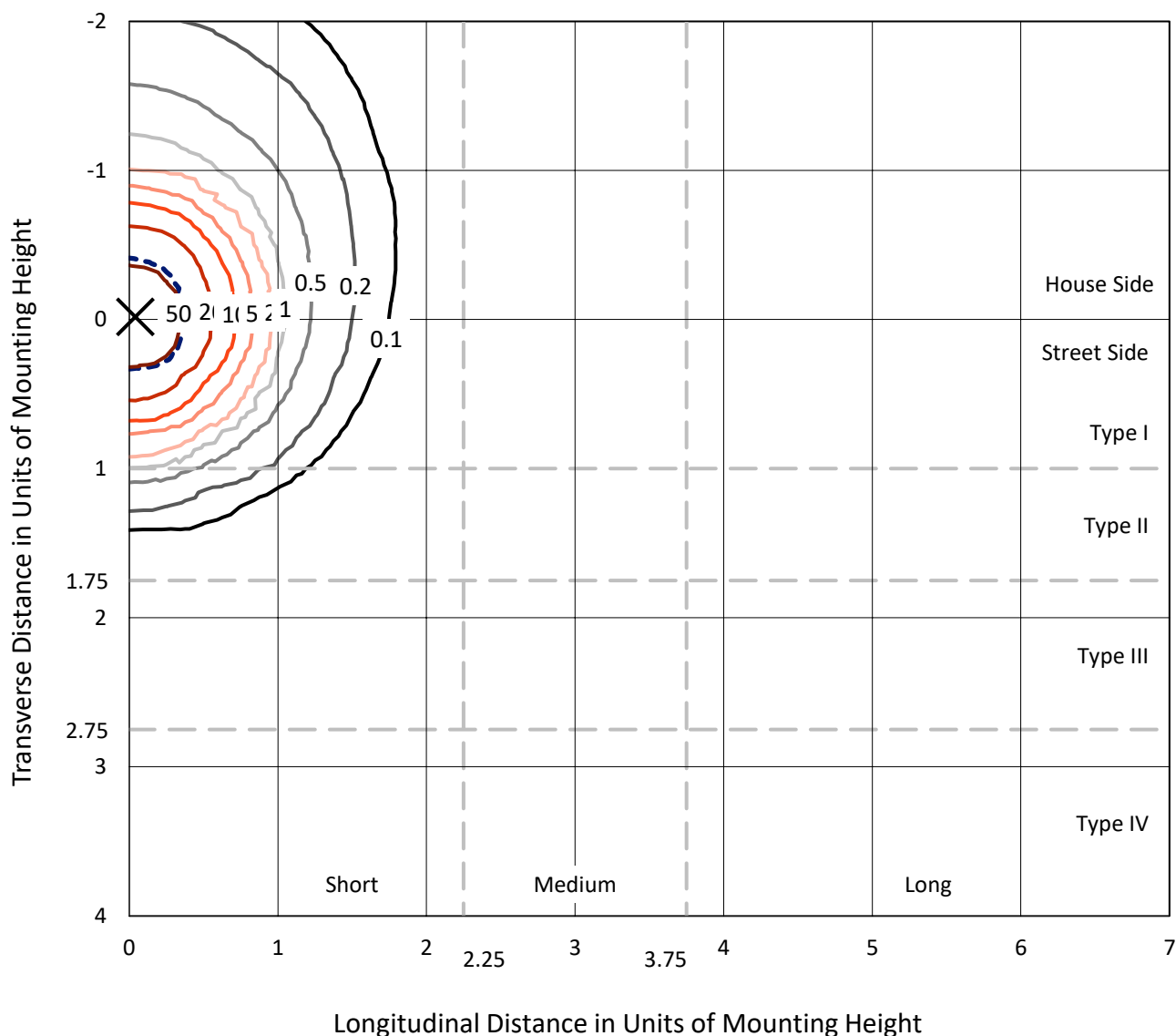
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

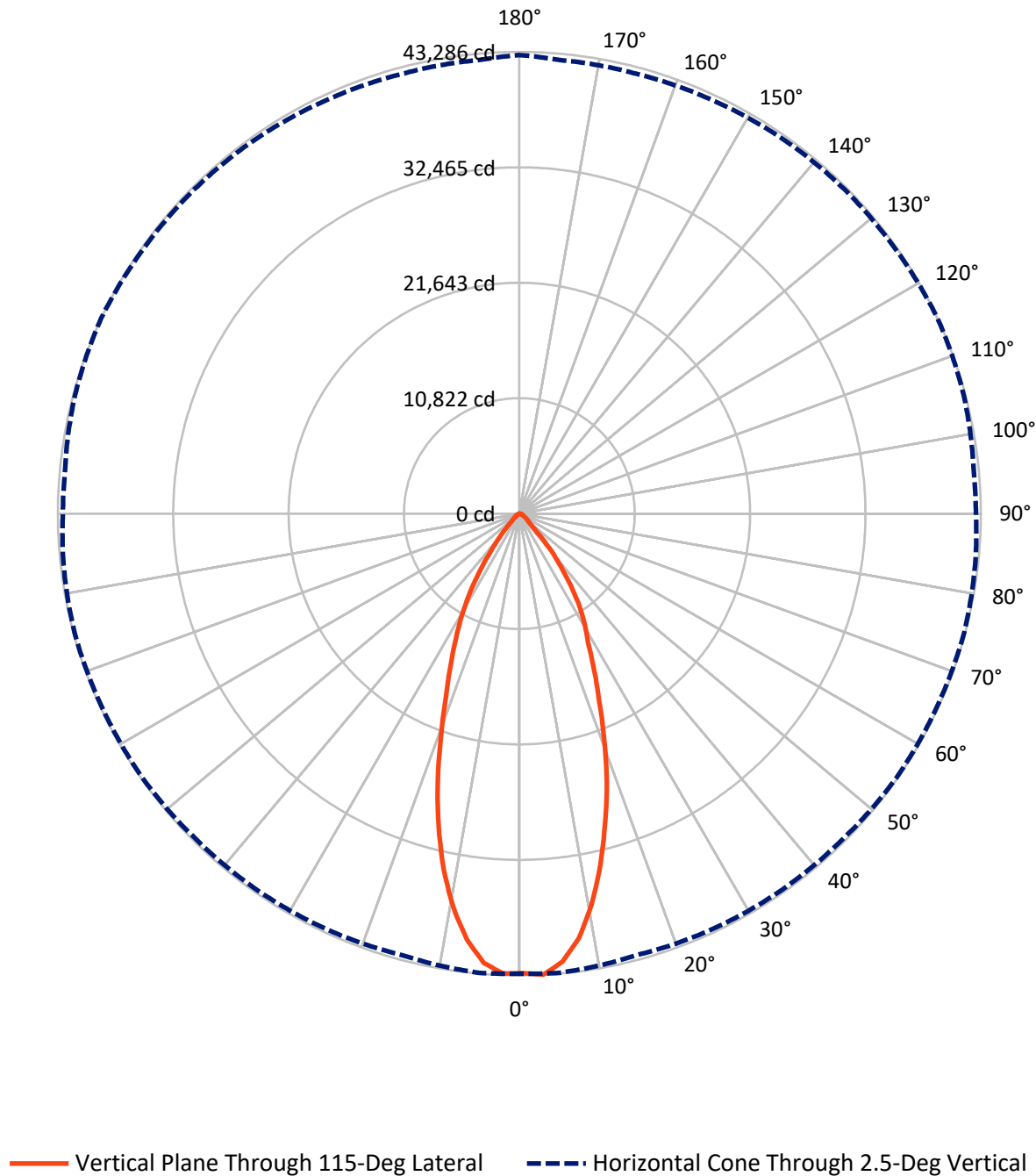


Based on 20 foot mounting height. Maximum calculated value = 107.7 fc

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	14791.4	0.0	14791.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	12010.3	0.0	12010.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	26801.6	0.0	26801.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3864.3	14.4
10°-20°	8167.0	30.5
20°-30°	7371.3	27.5
30°-40°	4878.0	18.2
40°-50°	1461.2	5.5
50°-60°	586.2	2.2
60°-70°	303.5	1.1
70°-80°	131.8	0.5
80°-90°	38.3	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°	26801.6	100.0
0°-180°	26801.6	100.0

Coefficient of Utilization



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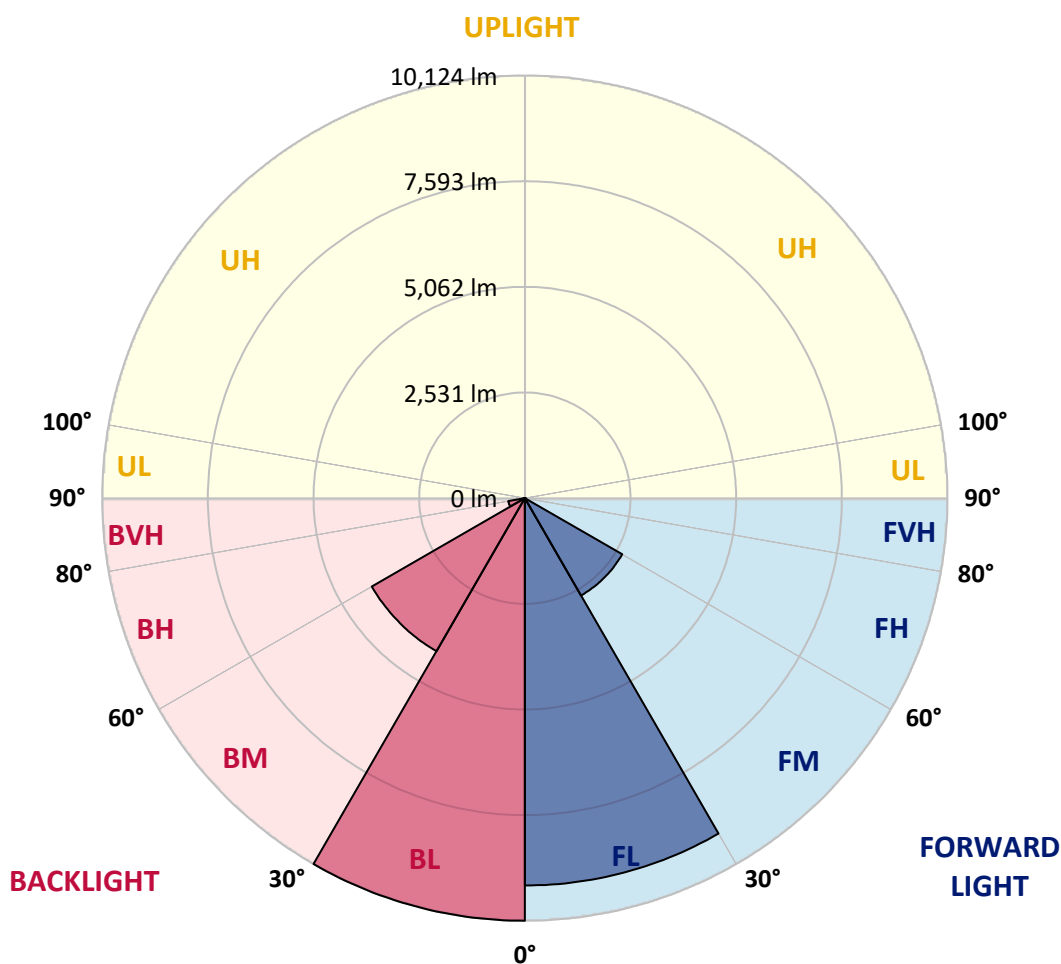
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9278.9	34.6			
FM	(30°-60°)	2692.5	10.0			
FH	(60°-80°)	33.3	0.1			G0/660
FVH	(80°-90°)	5.5	0.0			G0/10
BL	(0°-30°)	10123.7	37.8	B5		
BM	(30°-60°)	4232.9	15.8	B3/5000		
BH	(60°-80°)	402.0	1.5	B1/500		G1/500
BVH	(80°-90°)	32.8	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°	43083.6	43083.6	43083.6	43083.6	43083.6	43083.6	43083.6	43083.6	43083.6	43083.6
2.5°	43138.4	43215.2	42831.5	42963.0	43017.9	43034.3	43171.3	43149.4	43187.8	42985.0
5°	42568.4	42420.4	42135.4	42140.8	42124.4	41970.9	42283.4	42261.4	42195.7	41954.5
7.5°	40628.0	40841.8	40304.6	40293.6	40282.7	40096.3	40507.4	40255.2	40310.1	39964.7
10°	37788.6	37816.0	37339.2	37295.3	37333.7	37092.5	37569.4	37470.7	37574.9	37213.1
12.5°	34307.9	34461.4	33935.2	33858.5	34012.0	33672.1	34055.8	34105.1	33951.7	33902.3
15°	26908.1	27313.7	28311.3	29835.1	30229.8	29944.8	30251.7	30246.2	30312.0	29939.3
17.5°	20500.4	20538.7	20303.0	21032.0	25252.7	26623.1	26688.8	26168.1	25773.4	25636.4
20°	17896.7	18028.3	17814.5	17874.8	18549.0	22566.8	22720.3	21936.5	21262.3	21207.5
22.5°	15824.7	15907.0	15753.5	15802.8	15835.7	16307.1	18976.5	18285.9	17962.5	17715.8
25°	14070.7	14070.7	13988.5	14004.9	13972.0	13275.9	14646.2	15435.6	15249.2	15161.5
27.5°	12470.1	12492.1	12387.9	12448.2	12048.1	10924.4	10759.9	13089.5	12892.2	12733.2
30°	10951.8	11023.1	10924.4	10957.3	10085.7	9164.9	8693.5	10918.9	11165.6	11121.7
32.5°	8244.0	8567.4	9362.2	9395.1	8211.1	7504.0	7295.7	8764.7	9702.0	9619.8
35°	5108.6	5092.2	5125.1	6703.7	6298.1	5815.7	5892.5	6621.5	7679.4	7641.0
37.5°	3897.3	3891.8	3952.1	3793.1	4127.5	4412.5	4472.8	4472.8	5607.5	5612.9
40°	2954.5	2932.5	2927.1	2674.9	2241.9	3310.8	3212.1	3129.9	3897.3	3979.5
42.5°	1885.6	1951.4	1902.0	1628.0	1463.5	1808.9	2017.1	1951.4	2406.3	2466.6
45°	1052.4	1052.4	1008.6	855.1	849.6	915.4	1151.1	1074.4	1233.3	1315.5
47.5°	509.8	498.8	548.1	674.2	701.6	679.7	822.2	855.1	931.8	1008.6
50°	411.1	411.1	389.2	350.8	581.0	559.1	608.4	652.3	696.1	761.9
52.5°	345.3	345.3	317.9	296.0	334.4	427.5	433.0	515.2	509.8	603.0
55°	175.4	180.9	257.6	257.6	224.7	350.8	356.3	416.6	427.5	504.3
57.5°	16.4	21.9	32.9	159.0	175.4	191.8	268.6	307.0	356.3	389.2
60°	5.5	5.5	11.0	21.9	104.1	131.6	169.9	202.8	246.7	323.4
62.5°	0.0	0.0	5.5	11.0	21.9	82.2	93.2	104.1	148.0	202.8
65°	0.0	0.0	5.5	5.5	11.0	27.4	38.4	65.8	93.2	126.1
67.5°	0.0	0.0	5.5	5.5	11.0	16.4	21.9	32.9	43.9	82.2
70°	0.0	0.0	5.5	5.5	11.0	16.4	16.4	21.9	27.4	38.4
72.5°	0.0	0.0	5.5	5.5	11.0	21.9	16.4	16.4	21.9	27.4
75°	0.0	0.0	5.5	5.5	11.0	16.4	16.4	16.4	16.4	16.4
77.5°	0.0	0.0	5.5	5.5	11.0	16.4	16.4	16.4	11.0	11.0
80°	0.0	0.0	5.5	5.5	11.0	16.4	21.9	21.9	11.0	11.0
82.5°	0.0	0.0	5.5	11.0	11.0	27.4	32.9	27.4	11.0	5.5
85°	0.0	0.0	5.5	5.5	16.4	27.4	27.4	16.4	11.0	5.5
87.5°	0.0	0.0	0.0	5.5	5.5	11.0	16.4	16.4	5.5	5.5
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°
43083.6	0°	43083.6	43083.6	43083.6	43083.6	43083.6	43083.6	43083.6	43083.6	43083.6
42820.5	2.5°	42798.6	43133.0	43286.4	43127.5	43050.7	42941.1	42782.2	42672.5	42694.5
41822.9	5°	41729.7	42080.5	42201.1	42064.1	41949.0	41888.7	41861.3	41916.1	42058.6
39816.7	7.5°	39805.8	40030.5	40162.1	40096.3	39937.3	40118.2	40167.5	40134.7	40342.9
37103.5	10°	37114.4	37361.1	37240.5	37267.9	37081.5	37174.7	37147.3	37267.9	37476.2
33864.0	12.5°	33644.7	33880.4	33787.2	33770.8	33573.4	33748.8	33639.2	33770.8	34044.8
29785.8	15°	29999.6	30147.6	30087.3	29994.1	29818.7	29879.0	30218.8	30196.9	30317.5
25554.2	17.5°	25444.6	26157.1	26546.3	26628.5	26486.0	26606.6	26847.8	26787.5	27061.6
21092.3	20°	21054.0	21772.0	22731.3	23509.6	23526.1	23542.5	23696.0	23734.4	23970.1
17721.3	22.5°	17644.6	18154.3	19184.8	20215.3	20927.9	21075.9	21059.5	21114.3	21180.0
15040.9	25°	15002.5	15375.3	16318.1	17030.6	18280.4	18697.0	18817.6	18697.0	18735.4
12678.4	27.5°	12820.9	13391.0	13703.4	14465.4	15687.7	16652.4	16614.1	16542.8	16553.8
11034.0	30°	11028.5	11642.4	12102.9	12333.1	13254.0	14646.2	14788.8	14585.9	14591.4
9581.4	32.5°	9521.2	9713.0	10392.7	10579.1	11171.0	12437.2	12925.1	12771.6	12744.2
7663.0	35°	7887.7	7991.9	8304.3	8671.5	9022.3	9981.6	10787.4	10644.8	10716.1
5634.9	37.5°	5612.9	6040.5	6342.0	6643.4	6895.6	7498.5	8468.7	8337.2	8408.4
3990.4	40°	3957.6	4149.4	4670.1	4801.7	5174.4	5454.0	6276.2	6232.3	6320.0
2477.6	42.5°	2433.7	2570.8	2833.9	2959.9	3212.1	3371.0	3853.4	3908.2	4023.3
1370.3	45°	1381.3	1441.6	1622.5	1759.5	1945.9	2011.7	2181.6	2258.3	2324.1
1063.4	47.5°	1052.4	1118.2	1238.8	1359.4	1512.9	1567.7	1688.3	1803.4	1863.7
822.2	50°	860.6	920.9	1046.9	1145.6	1299.1	1348.4	1447.1	1573.2	1649.9
624.9	52.5°	652.3	740.0	893.5	997.6	1156.6	1216.9	1310.0	1436.1	1507.4
515.2	55°	537.2	603.0	740.0	882.5	1030.5	1112.7	1173.0	1326.5	1403.2
422.1	57.5°	460.4	509.8	597.5	767.4	893.5	1014.1	1063.4	1205.9	1282.6
334.4	60°	350.8	427.5	504.3	635.8	778.4	904.4	959.2	1085.3	1145.6
241.2	62.5°	290.5	339.8	438.5	509.8	668.7	800.3	855.1	970.2	1014.1
159.0	65°	202.8	274.1	367.3	411.1	559.1	685.2	761.9	849.6	893.5
93.2	67.5°	120.6	202.8	290.5	350.8	455.0	581.0	663.2	745.5	783.8
54.8	70°	76.7	159.0	230.2	296.0	356.3	476.9	575.5	646.8	630.4
32.9	72.5°	43.9	98.7	169.9	241.2	296.0	400.1	493.3	548.1	389.2
21.9	75°	27.4	71.3	142.5	197.3	241.2	317.9	405.6	416.6	241.2
11.0	77.5°	21.9	54.8	109.6	159.0	164.4	235.7	285.0	323.4	180.9
11.0	80°	11.0	43.9	93.2	131.6	104.1	164.4	219.3	252.1	142.5
5.5	82.5°	11.0	27.4	71.3	93.2	76.7	126.1	159.0	180.9	120.6
5.5	85°	5.5	21.9	38.4	54.8	54.8	82.2	71.3	87.7	76.7
5.5	87.5°	5.5	11.0	21.9	27.4	21.9	32.9	38.4	38.4	32.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
43083.6
42990.5
42354.6
40551.2
37558.4
34094.2
30344.9
27017.7
23920.7
21059.5
18675.1
16570.2
14596.9
12810.0
10781.9
8468.7
6352.9
4154.9
2318.6
1891.1
1682.8
1556.7
1425.2
1315.5
1156.6
1019.5
893.5
778.4
581.0
345.3
224.7
180.9
148.0
131.6
76.7
27.4
0.0

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