

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: P636474

Luminaire Tested: **IFLD-L-SA8C-930-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636474
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-930-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26831.1 lumens
Efficiency: N/A
Efficacy: 63.8 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): 420.3
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



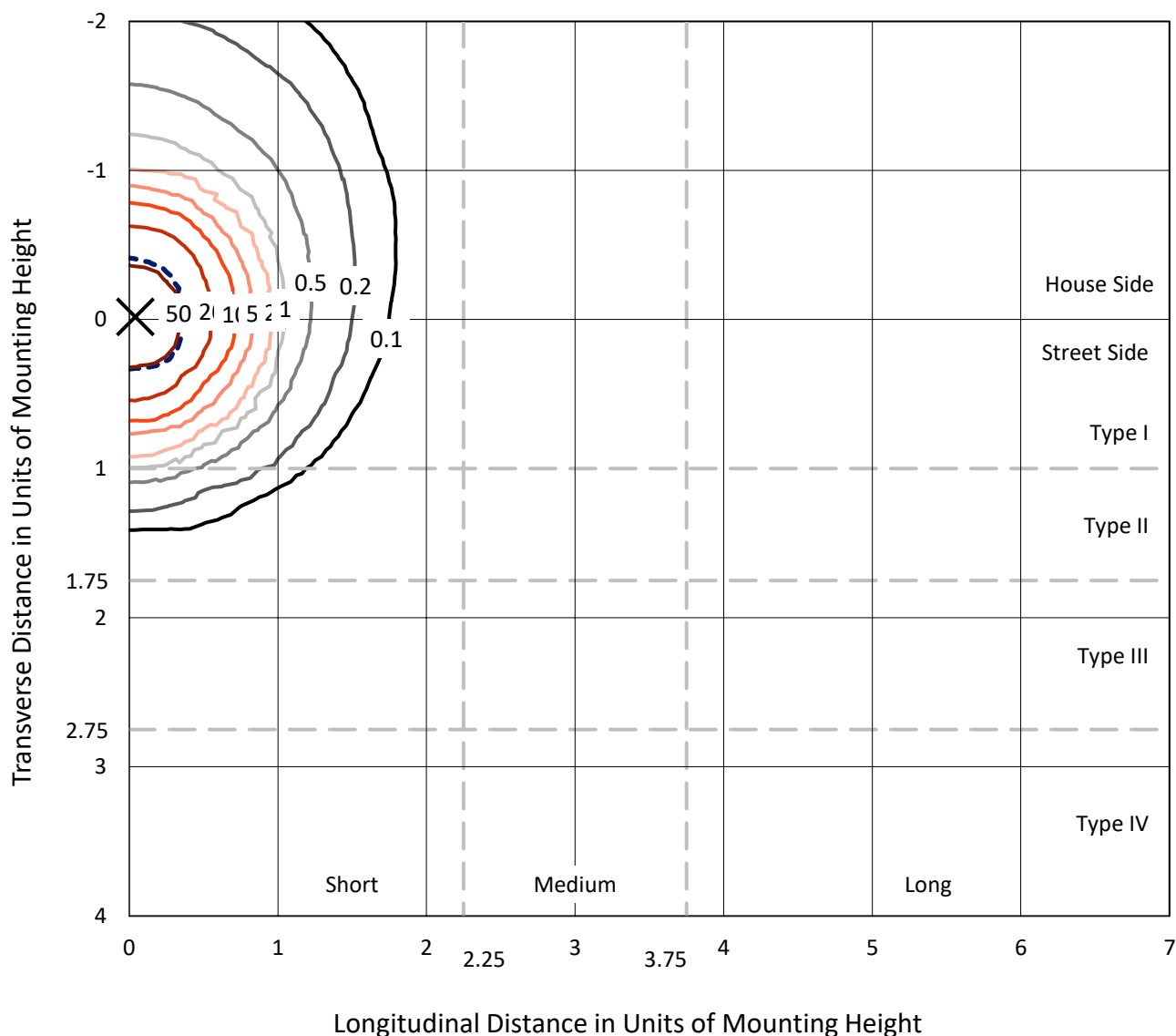
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



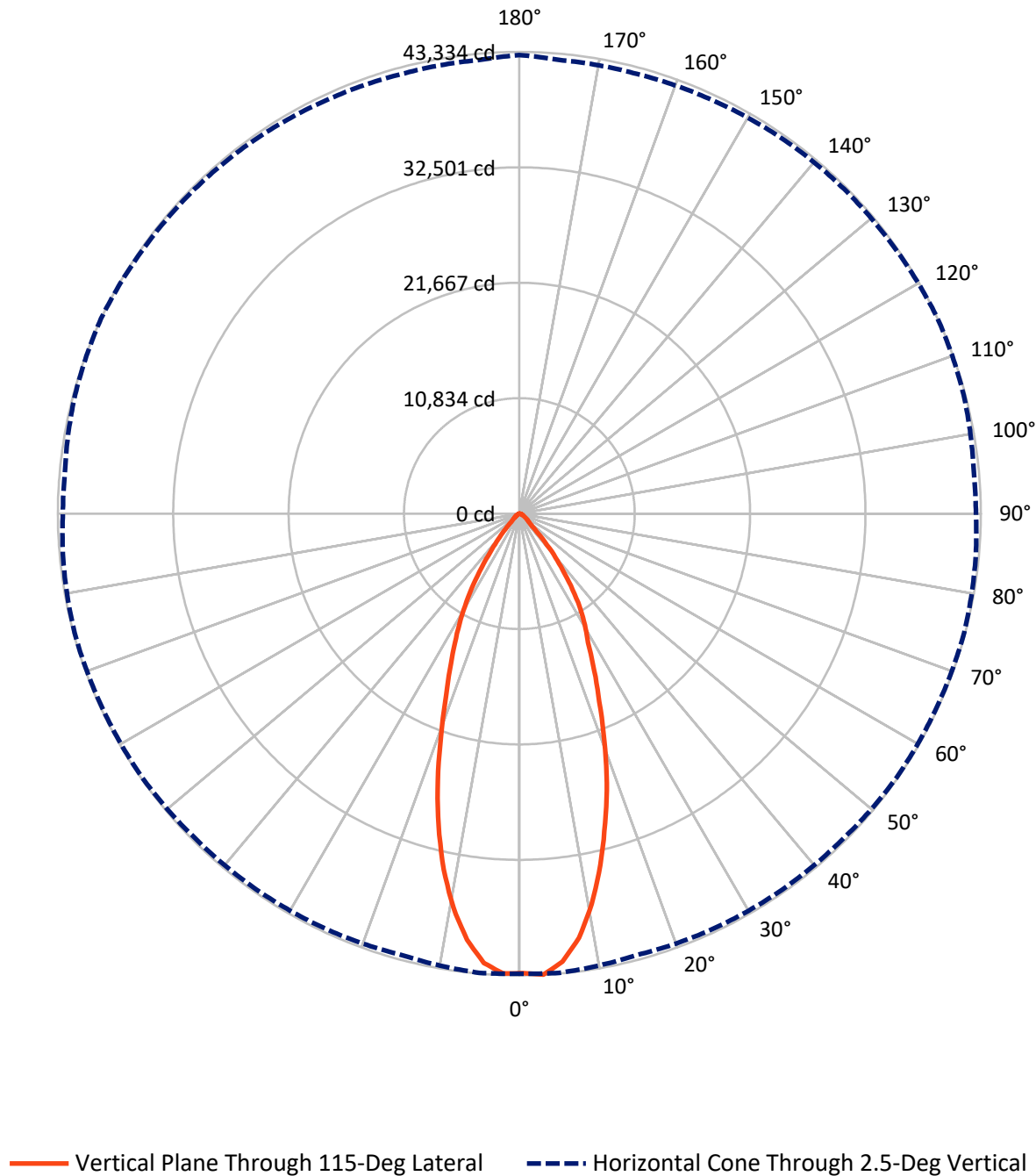
Based on 20 foot mounting height. Maximum calculated value = 107.8 fc

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	14807.6	0.0	14807.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	12023.5	0.0	12023.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	26831.1	0.0	26831.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3868.5	14.4
10°-20°	8176.0	30.5
20°-30°	7379.4	27.5
30°-40°	4883.4	18.2
40°-50°	1462.9	5.5
50°-60°	586.8	2.2
60°-70°	303.9	1.1
70°-80°	131.9	0.5
80°-90°	38.4	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°	26831.1	100.0
0°-180°	26831.1	100.0

Coefficient of Utilization



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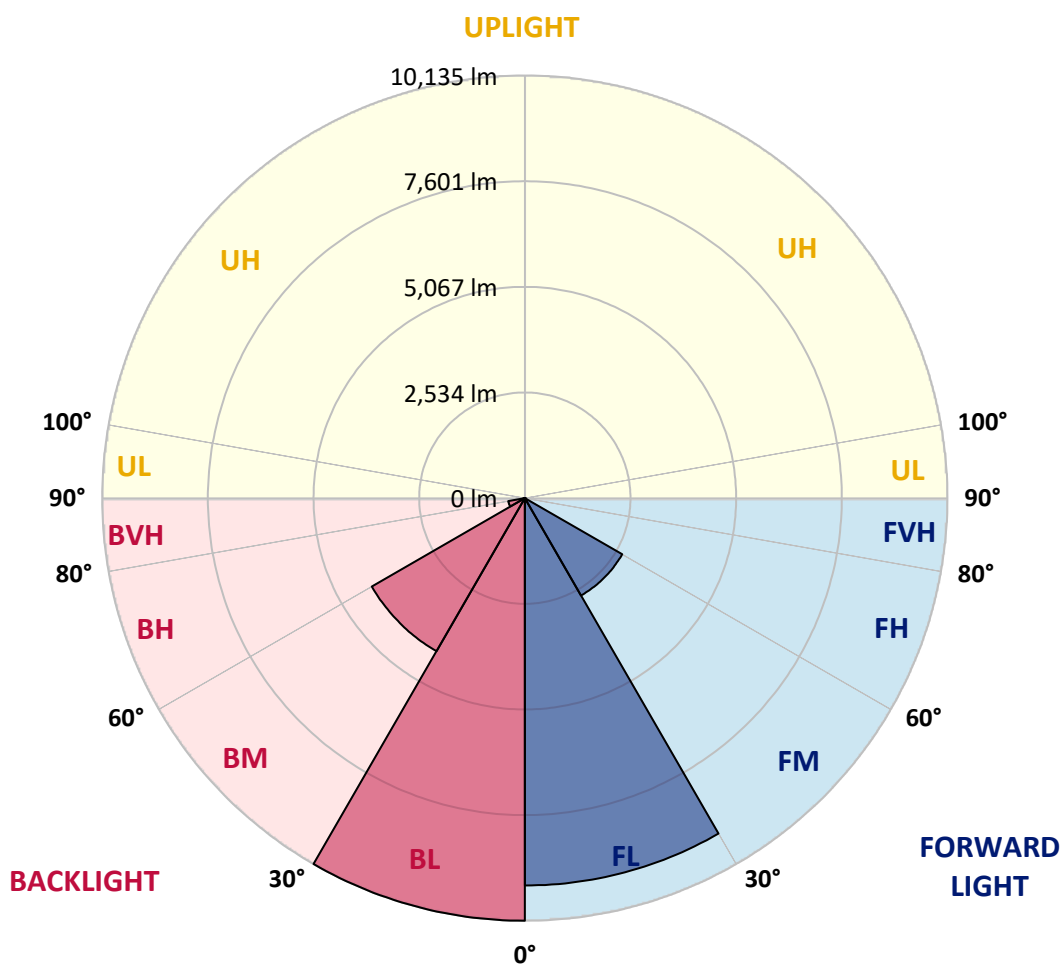
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9289.1	34.6			
FM	(30°-60°)	2695.4	10.0			
FH	(60°-80°)	33.4	0.1			G0/660
FVH	(80°-90°)	5.5	0.0			G0/10
BL	(0°-30°)	10134.8	37.8	B5		
BM	(30°-60°)	4237.6	15.8	B3/5000		
BH	(60°-80°)	402.4	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°	43131.0	43131.0	43131.0	43131.0	43131.0	43131.0	43131.0	43131.0	43131.0	43131.0
2.5°	43185.9	43262.7	42878.6	43010.3	43065.2	43081.7	43218.8	43196.9	43235.3	43032.3
5°	42615.2	42467.1	42181.7	42187.2	42170.7	42017.1	42329.9	42307.9	42242.1	42000.6
7.5°	40672.7	40886.7	40348.9	40338.0	40327.0	40140.4	40552.0	40299.5	40354.4	40008.7
10°	37830.2	37857.6	37380.2	37336.3	37374.8	37133.3	37610.7	37511.9	37616.2	37254.0
12.5°	34345.7	34499.3	33972.6	33895.7	34049.4	33709.2	34093.3	34142.7	33989.0	33939.6
15°	26937.7	27343.8	28342.5	29868.0	30263.1	29977.7	30285.0	30279.5	30345.4	29972.2
17.5°	20522.9	20561.3	20325.4	21055.2	25280.5	26652.4	26718.2	26196.9	25801.8	25664.6
20°	17916.4	18048.1	17834.1	17894.4	18569.4	22591.7	22745.3	21960.6	21285.7	21230.8
22.5°	15842.2	15924.5	15770.8	15820.2	15853.1	16325.0	18997.4	18306.0	17982.2	17735.3
25°	14086.2	14086.2	14003.9	14020.3	13987.4	13290.5	14662.4	15452.5	15266.0	15178.2
27.5°	12483.9	12505.8	12401.5	12461.9	12061.3	10936.4	10771.8	13103.9	12906.4	12747.3
30°	10963.8	11035.2	10936.4	10969.3	10096.8	9174.9	8703.0	10930.9	11177.9	11134.0
32.5°	8253.1	8576.8	9372.5	9405.4	8220.1	7512.3	7303.7	8774.4	9712.7	9630.4
35°	5114.3	5097.8	5130.7	6711.1	6305.0	5822.1	5899.0	6628.8	7687.9	7649.4
37.5°	3901.5	3896.1	3956.4	3797.3	4132.0	4417.4	4477.7	4477.7	5613.6	5619.1
40°	2957.7	2935.8	2930.3	2677.9	2244.4	3314.4	3215.6	3133.3	3901.5	3983.9
42.5°	1887.7	1953.5	1904.1	1629.8	1465.1	1810.8	2019.4	1953.5	2409.0	2469.3
45°	1053.6	1053.6	1009.7	856.0	850.5	916.4	1152.4	1075.5	1234.7	1317.0
47.5°	510.3	499.4	548.7	675.0	702.4	680.4	823.1	856.0	932.9	1009.7
50°	411.6	411.6	389.6	351.2	581.7	559.7	609.1	653.0	696.9	762.8
52.5°	345.7	345.7	318.3	296.3	334.7	428.0	433.5	515.8	510.3	603.6
55°	175.6	181.1	257.9	257.9	225.0	351.2	356.7	417.0	428.0	504.8
57.5°	16.5	21.9	32.9	159.1	175.6	192.1	268.9	307.3	356.7	389.6
60°	5.5	5.5	11.0	21.9	104.3	131.7	170.1	203.0	246.9	323.8
62.5°	0.0	0.0	5.5	11.0	21.9	82.3	93.3	104.3	148.2	203.0
65°	0.0	0.0	5.5	5.5	11.0	27.4	38.4	65.8	93.3	126.2
67.5°	0.0	0.0	5.5	5.5	11.0	16.5	21.9	32.9	43.9	82.3
70°	0.0	0.0	5.5	5.5	11.0	16.5	16.5	21.9	27.4	38.4
72.5°	0.0	0.0	5.5	5.5	11.0	21.9	16.5	16.5	21.9	27.4
75°	0.0	0.0	5.5	5.5	11.0	16.5	16.5	16.5	16.5	16.5
77.5°	0.0	0.0	5.5	5.5	11.0	16.5	16.5	16.5	11.0	11.0
80°	0.0	0.0	5.5	5.5	11.0	16.5	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	16.5	27.4	27.4	16.5	11.0	5.5
87.5°	0.0	0.0	0.0	5.5	5.5	11.0	16.5	16.5	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°
43131.0	0°	43131.0	43131.0	43131.0	43131.0	43131.0	43131.0	43131.0	43131.0	43131.0
42867.6	2.5°	42845.7	43180.4	43334.1	43174.9	43098.1	42988.4	42829.2	42719.5	42741.4
41868.9	5°	41775.7	42126.8	42247.6	42110.4	41995.2	41934.8	41907.4	41962.2	42104.9
39860.5	7.5°	39849.6	40074.6	40206.3	40140.4	39981.3	40162.4	40211.7	40178.8	40387.3
37144.3	10°	37155.3	37402.2	37281.5	37308.9	37122.3	37215.6	37188.2	37308.9	37517.4
33901.2	12.5°	33681.7	33917.7	33824.4	33807.9	33610.4	33786.0	33676.2	33807.9	34082.3
29818.6	15°	30032.6	30180.8	30120.4	30027.1	29851.5	29911.9	30252.1	30230.1	30350.9
25582.3	17.5°	25472.6	26185.9	26575.5	26657.8	26515.2	26635.9	26877.3	26817.0	27091.3
21115.6	20°	21077.1	21796.0	22756.3	23535.5	23552.0	23568.4	23722.1	23760.5	23996.4
17740.8	22.5°	17664.0	18174.3	19205.9	20237.6	20950.9	21099.1	21082.6	21137.5	21203.4
15057.5	25°	15019.0	15392.2	16336.0	17049.4	18300.5	18717.6	18838.3	18717.6	18756.0
12692.4	27.5°	12835.1	13405.7	13718.5	14481.3	15705.0	16670.8	16632.3	16561.0	16572.0
11046.2	30°	11040.7	11655.3	12116.2	12346.7	13268.6	14662.4	14805.0	14602.0	14607.5
9592.0	32.5°	9531.6	9723.7	10404.1	10590.7	11183.3	12450.9	12939.3	12785.7	12758.2
7671.4	35°	7896.4	8000.6	8313.4	8681.1	9032.3	9992.6	10799.2	10656.6	10727.9
5641.1	37.5°	5619.1	6047.1	6348.9	6650.7	6903.2	7506.8	8478.0	8346.4	8417.7
3994.8	40°	3961.9	4154.0	4675.3	4807.0	5180.1	5460.0	6283.1	6239.2	6327.0
2480.3	42.5°	2436.4	2573.6	2837.0	2963.2	3215.6	3374.8	3857.6	3912.5	4027.8
1371.9	45°	1382.8	1443.2	1624.3	1761.5	1948.0	2013.9	2184.0	2260.8	2326.7
1064.6	47.5°	1053.6	1119.4	1240.2	1360.9	1514.5	1569.4	1690.1	1805.4	1865.7
823.1	50°	861.5	921.9	1048.1	1146.9	1300.5	1349.9	1448.7	1574.9	1651.7
625.6	52.5°	653.0	740.8	894.4	998.7	1157.8	1218.2	1311.5	1437.7	1509.0
515.8	55°	537.8	603.6	740.8	883.5	1031.6	1113.9	1174.3	1328.0	1404.8
422.5	57.5°	460.9	510.3	598.1	768.2	894.4	1015.2	1064.6	1207.2	1284.1
334.7	60°	351.2	428.0	504.8	636.5	779.2	905.4	960.3	1086.5	1146.9
241.4	62.5°	290.8	340.2	439.0	510.3	669.5	801.2	856.0	971.3	1015.2
159.1	65°	203.0	274.4	367.7	411.6	559.7	685.9	762.8	850.5	894.4
93.3	67.5°	120.7	203.0	290.8	351.2	455.5	581.7	664.0	746.3	784.7
54.9	70°	76.8	159.1	230.5	296.3	356.7	477.4	576.2	647.5	631.1
32.9	72.5°	43.9	98.8	170.1	241.4	296.3	400.6	493.9	548.7	389.6
21.9	75°	27.4	71.3	142.7	197.5	241.4	318.3	406.1	417.0	241.4
11.0	77.5°	21.9	54.9	109.7	159.1	164.6	236.0	285.3	323.8	181.1
11.0	80°	11.0	43.9	93.3	131.7	104.3	164.6	219.5	252.4	142.7
5.5	82.5°	11.0	27.4	71.3	93.3	76.8	126.2	159.1	181.1	120.7
5.5	85°	5.5	21.9	38.4	54.9	54.9	82.3	71.3	87.8	76.8
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°
43131.0
43037.8
42401.2
40595.9
37599.7
34131.7
30378.3
27047.4
23947.1
21082.6
18695.6
16588.4
14613.0
12824.1
10793.7
8478.0
6359.9
4159.5
2321.2
1893.2
1684.6
1558.4
1426.7
1317.0
1157.8
1020.7
894.4
779.2
581.7
345.7
225.0
181.1
148.2
131.7
76.8
27.4
0.0

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