

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: P637629

Luminaire Tested: **IFLD-L-SA7C-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637629
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41071.3 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 369
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



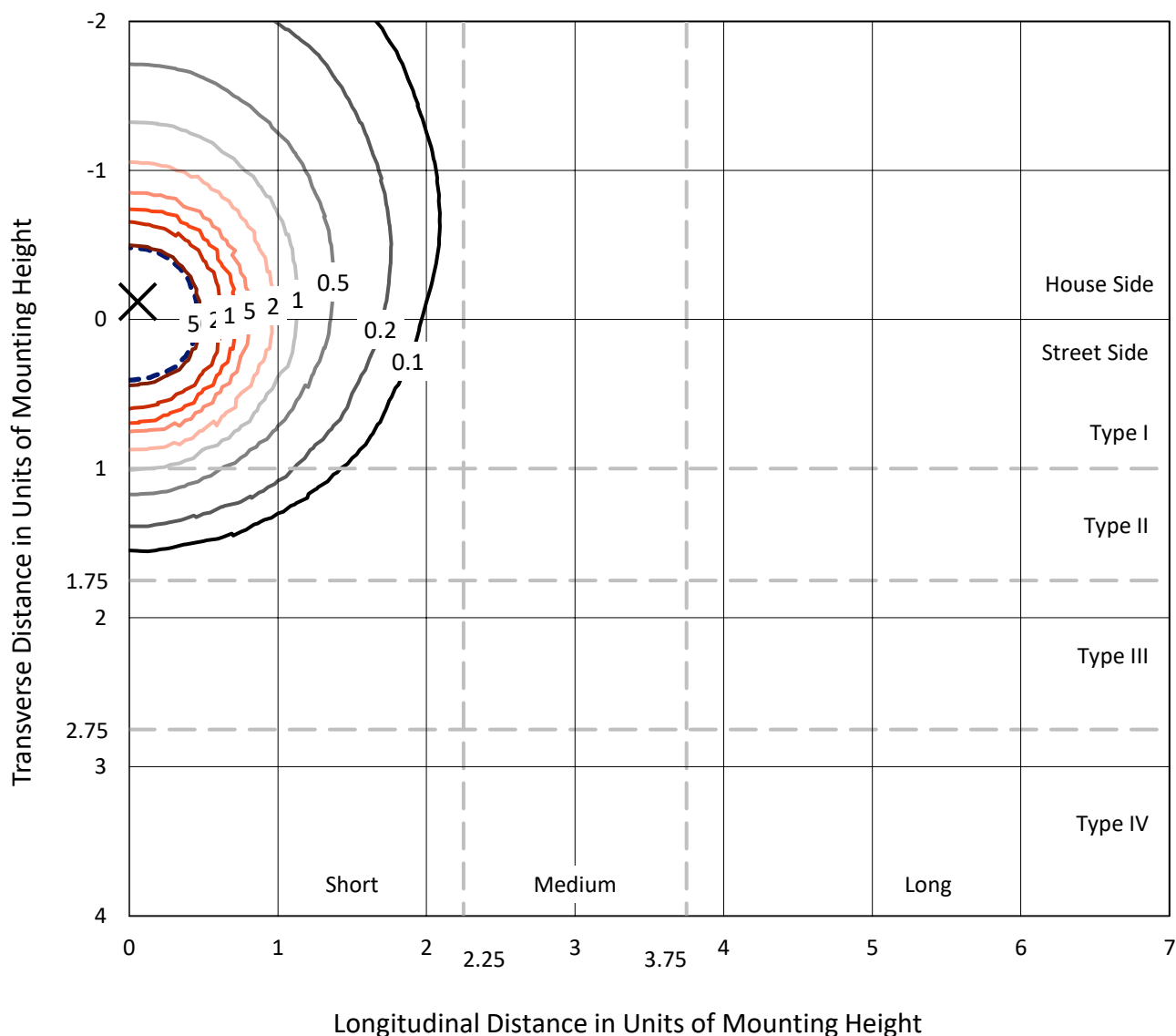
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



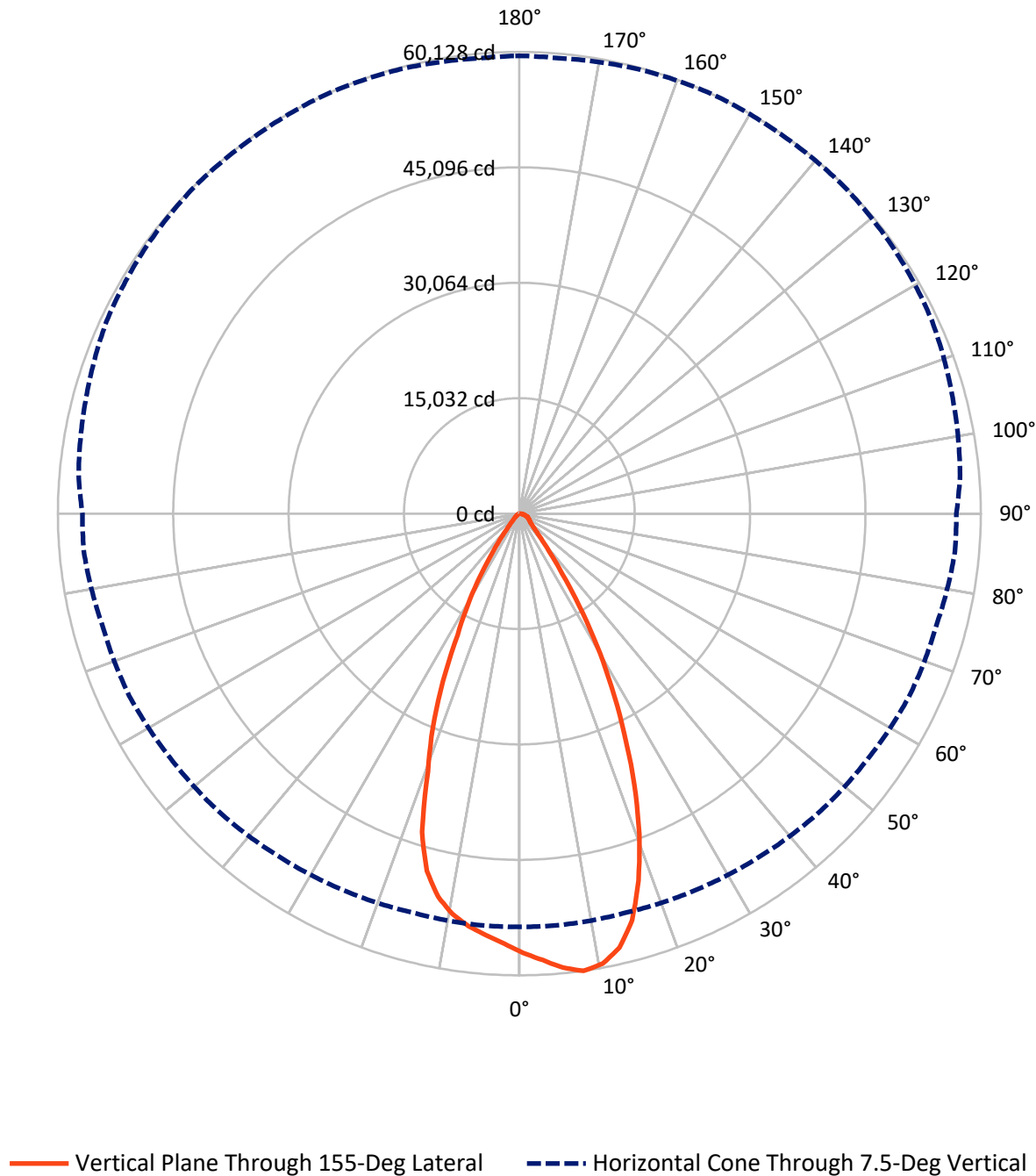
Based on 20 foot mounting height. Maximum calculated value = 145.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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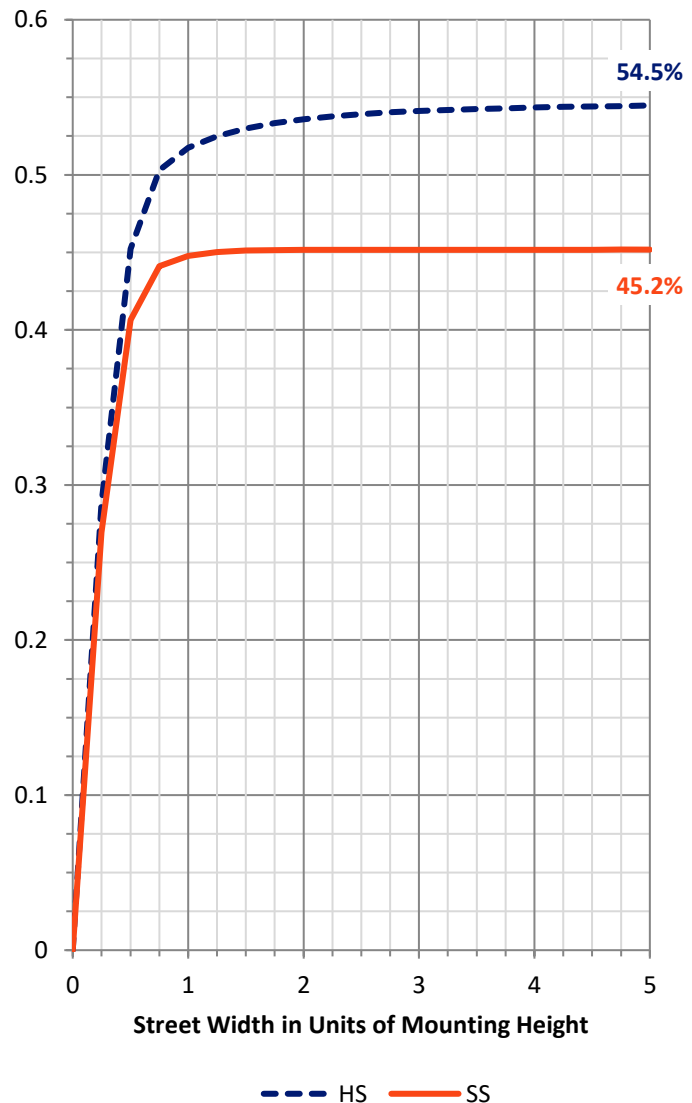
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22672.9	0.0	22672.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	18398.5	0.0	18398.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	41071.3	0.0	41071.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5455.9	13.3
10°-20°	14147.1	34.4
20°-30°	12962.7	31.6
30°-40°	5236.9	12.8
40°-50°	1536.3	3.7
50°-60°	859.0	2.1
60°-70°	521.7	1.3
70°-80°	265.1	0.6
80°-90°	86.7	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°	41071.3	100.0
0°-180°	41071.3	100.0

Coefficient of Utilization



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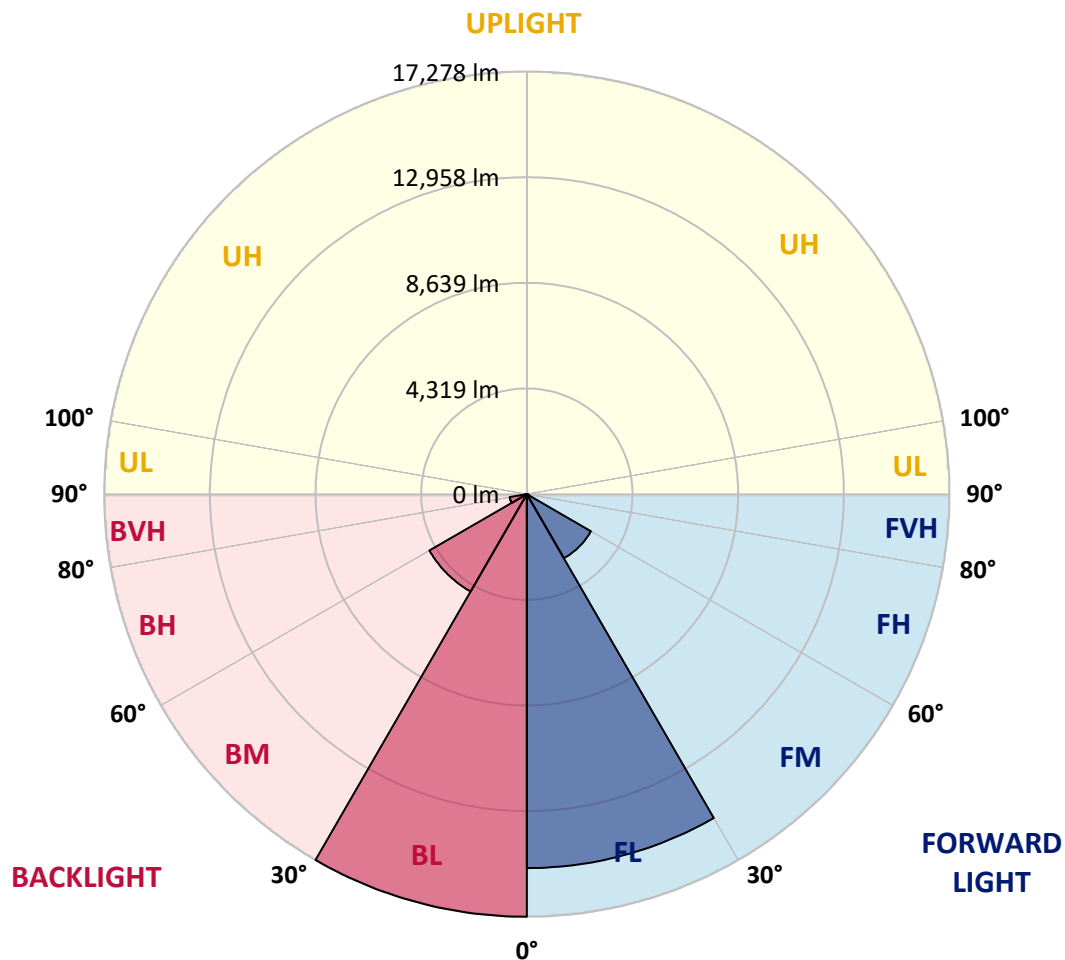
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	15287.8	37.2			
FM	(30°-60°)	3029.8	7.4			
FH	(60°-80°)	73.4	0.2			G0/660
FVH	(80°-90°)	7.5	0.0			G0/10
BL	(0°-30°)	17277.9	42.1	B5		
BM	(30°-60°)	4602.4	11.2	B3/5000		
BH	(60°-80°)	713.4	1.7	B2/1000		G2/1000
BVH	(80°-90°)	79.2	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-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	57215.5	57215.5	57215.5	57215.5	57215.5	57215.5	57215.5	57215.5	57215.5	57215.5
2.5°	55974.7	56164.1	55785.3	56036.3	56230.4	56694.6	56732.5	56893.5	56950.3	57371.8
5°	54913.8	55060.7	54752.8	55089.1	55363.8	55775.8	56093.1	56538.3	56784.6	57281.8
7.5°	53810.4	53843.5	53781.9	54137.1	54549.2	55117.5	55510.6	56093.1	56244.7	56955.1
10°	52474.8	52233.3	52351.7	52872.6	53488.3	54359.7	54629.7	55212.2	55482.2	56206.8
12.5°	50343.6	50466.7	50319.9	50983.0	51494.5	52484.3	52768.4	53355.7	53871.9	54511.3
15°	47341.0	47269.9	47568.3	48084.5	48638.6	49424.8	49884.2	50523.6	50916.7	51579.7
17.5°	40592.2	40833.7	42065.1	43358.0	44494.7	45413.4	45962.8	46493.2	46777.4	47497.3
20°	35055.8	34752.7	34918.5	35647.8	38882.5	40289.1	40866.9	40994.8	41113.2	41681.5
22.5°	28865.9	28766.4	29320.5	30139.9	30907.1	34151.2	34937.4	34639.1	34885.3	35420.5
25°	21435.1	21937.1	22429.7	24002.0	24996.6	26587.9	28079.7	28212.3	28302.3	28638.5
27.5°	17447.4	17272.2	17262.7	17703.1	19171.3	20497.4	21766.6	22060.3	22008.2	22330.2
30°	13715.4	13658.6	13459.7	13563.9	13417.1	14596.3	15193.1	16400.7	16334.4	16343.9
32.5°	9893.5	9680.4	9599.9	9756.1	9604.6	9495.7	10016.6	11380.6	11356.9	11451.6
35°	5986.3	5957.9	6024.2	6161.5	5858.4	5849.0	5957.9	7241.3	7397.6	7549.2
37.5°	3305.7	3277.3	3329.4	3836.2	3736.7	3646.7	3675.1	4352.4	4802.3	4916.0
40°	2178.6	2173.8	2211.7	2301.7	2472.2	2439.0	2453.2	2756.3	3182.6	3282.0
42.5°	1458.7	1463.4	1487.1	1591.3	1615.0	1785.5	1757.1	1828.1	2225.9	2311.2
45°	1165.1	1160.3	1174.5	1127.2	1155.6	1330.8	1349.8	1354.5	1695.5	1747.6
47.5°	918.8	918.8	933.0	871.4	857.2	966.1	1065.6	1079.8	1354.5	1425.5
50°	644.1	644.1	715.1	686.7	719.9	753.0	862.0	876.2	1108.2	1184.0
52.5°	473.6	483.1	492.5	497.3	606.2	601.5	696.2	762.5	838.3	970.9
55°	359.9	369.4	345.7	369.4	449.9	502.0	521.0	615.7	667.8	814.6
57.5°	236.8	260.5	241.5	284.2	303.1	388.4	416.8	506.8	539.9	667.8
60°	33.2	37.9	61.6	198.9	213.1	255.7	322.0	402.6	435.7	544.6
62.5°	4.7	4.7	14.2	33.2	142.1	170.5	241.5	279.4	322.0	407.3
65°	0.0	0.0	4.7	9.5	28.4	99.5	123.1	151.6	222.6	293.6
67.5°	0.0	0.0	4.7	9.5	14.2	33.2	52.1	99.5	127.9	203.6
70°	0.0	0.0	4.7	9.5	14.2	18.9	28.4	37.9	75.8	118.4
72.5°	0.0	0.0	4.7	9.5	14.2	18.9	23.7	28.4	33.2	75.8
75°	0.0	0.0	4.7	9.5	14.2	23.7	28.4	28.4	28.4	33.2
77.5°	0.0	0.0	4.7	9.5	18.9	28.4	33.2	28.4	23.7	23.7
80°	0.0	0.0	4.7	14.2	23.7	33.2	37.9	28.4	18.9	14.2
82.5°	0.0	0.0	4.7	14.2	23.7	33.2	37.9	33.2	18.9	14.2
85°	0.0	0.0	4.7	14.2	18.9	23.7	37.9	33.2	18.9	9.5
87.5°	0.0	0.0	0.0	4.7	4.7	9.5	18.9	14.2	9.5	4.7
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°
57215.5	0°	57215.5	57215.5	57215.5	57215.5	57215.5	57215.5	57215.5	57215.5	57215.5
57362.3	2.5°	57788.6	58001.7	58375.9	58480.0	58802.1	58432.7	58229.0	58248.0	57807.5
57220.3	5°	57788.6	58276.4	58930.0	59242.5	59479.3	59460.4	59408.3	59275.7	58953.6
56936.1	7.5°	57637.0	58432.7	59332.5	59749.3	60033.4	60009.8	60128.2	59915.0	59522.0
56429.4	10°	57149.2	57840.7	58948.9	59289.9	59749.3	59758.8	59611.9	59654.6	58953.6
54577.6	12.5°	55614.8	56154.7	57125.5	57513.9	58072.7	58162.7	58001.7	57940.1	57277.1
51541.8	15°	52645.3	52957.9	53933.5	54321.8	54876.0	54800.2	54961.2	54894.9	54312.4
47440.4	17.5°	48302.4	48401.8	49424.8	49751.6	50272.6	50476.2	50234.7	50542.5	50040.5
41780.9	20°	42074.6	42609.7	43760.6	44262.6	44565.7	44930.4	44613.1	44958.8	44371.5
34913.7	22.5°	35756.7	36074.1	37116.0	37840.6	38404.2	38475.2	38356.8	38598.3	37807.4
28861.1	25°	28856.4	29382.1	30206.2	31153.4	31707.5	32048.5	31740.6	31896.9	31769.0
22382.3	27.5°	22761.2	23230.0	23850.5	24556.1	25389.7	25834.8	25588.6	25853.8	25228.6
16689.6	30°	16703.8	16940.6	17641.6	18389.9	19303.9	19843.8	19867.5	20137.4	19768.0
11693.2	32.5°	11778.4	11986.8	12417.8	12915.1	13786.5	14387.9	14293.2	14331.1	14103.8
7620.2	35°	7658.1	7937.5	8245.4	8482.2	9007.9	9670.9	9618.8	9571.4	9415.2
5010.7	37.5°	5119.6	5228.5	5399.0	5612.2	5953.1	6369.9	6507.3	6336.8	6270.5
3381.5	40°	3462.0	3651.5	3765.1	3926.1	4087.2	4437.6	4532.3	4499.2	4432.9
2368.0	42.5°	2458.0	2604.8	2746.9	2903.2	2988.4	3206.3	3391.0	3338.9	3310.5
1799.7	45°	1866.0	1998.6	2164.3	2282.7	2368.0	2495.9	2671.1	2690.0	2647.4
1444.5	47.5°	1496.6	1615.0	1747.6	1894.4	1993.9	2074.4	2225.9	2282.7	2254.3
1217.2	50°	1269.2	1359.2	1487.1	1633.9	1742.8	1813.9	1946.5	2008.1	1989.1
1018.2	52.5°	1079.8	1188.7	1307.1	1430.3	1562.9	1633.9	1757.1	1847.0	1832.8
843.0	55°	895.1	1037.2	1160.3	1283.5	1435.0	1506.0	1615.0	1733.4	1709.7
715.1	57.5°	781.4	899.8	1027.7	1146.1	1307.1	1401.9	1501.3	1624.4	1619.7
587.3	60°	653.6	772.0	914.0	1013.5	1184.0	1316.6	1406.6	1534.5	1543.9
445.2	62.5°	521.0	667.8	776.7	914.0	1070.3	1226.6	1311.9	1439.7	1487.1
341.0	65°	388.4	549.4	672.5	809.9	956.7	1131.9	1207.7	1335.6	1382.9
246.3	67.5°	288.9	412.0	568.3	686.7	852.5	1004.0	1094.0	1212.4	1245.6
146.8	70°	217.9	317.3	473.6	577.8	748.3	871.4	961.4	1051.4	1094.0
99.5	72.5°	127.9	236.8	374.1	497.3	644.1	748.3	814.6	885.6	914.0
47.4	75°	90.0	180.0	293.6	412.0	521.0	606.2	667.8	729.3	757.8
23.7	77.5°	47.4	132.6	232.1	331.5	407.3	478.3	539.9	587.3	606.2
18.9	80°	28.4	94.7	189.4	260.5	312.6	374.1	435.7	468.9	464.1
14.2	82.5°	18.9	75.8	137.3	189.4	227.3	274.7	317.3	341.0	341.0
9.5	85°	14.2	52.1	94.7	146.8	151.6	189.4	198.9	222.6	227.3
9.5	87.5°	9.5	33.2	52.1	85.2	80.5	99.5	104.2	118.4	127.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
57215.5
57452.3
59057.8
59611.9
58750.0
57125.5
54497.1
49917.4
44324.2
37698.5
31688.5
25389.7
19834.3
14231.7
9277.8
6256.2
4442.4
3286.8
2642.7
2240.1
1984.4
1823.4
1709.7
1615.0
1543.9
1482.4
1378.2
1245.6
1084.5
904.6
748.3
601.5
459.4
336.3
222.6
123.1
0.0

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