

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: P637751

Luminaire Tested: **IFLD-L-SA8D-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637751
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38494.3 lumens
Efficiency: N/A
Efficacy: 78.8 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): 488.3
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



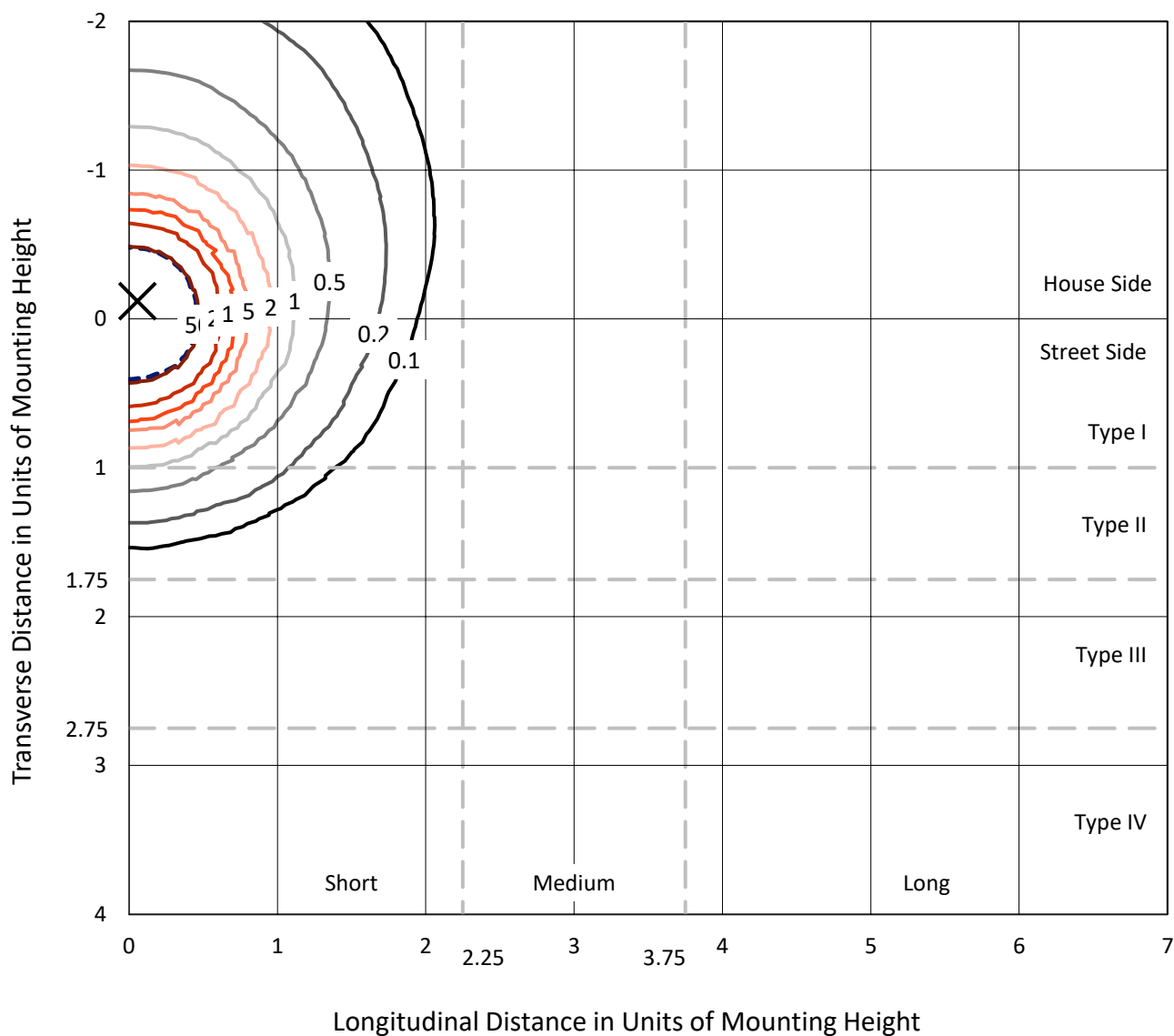
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



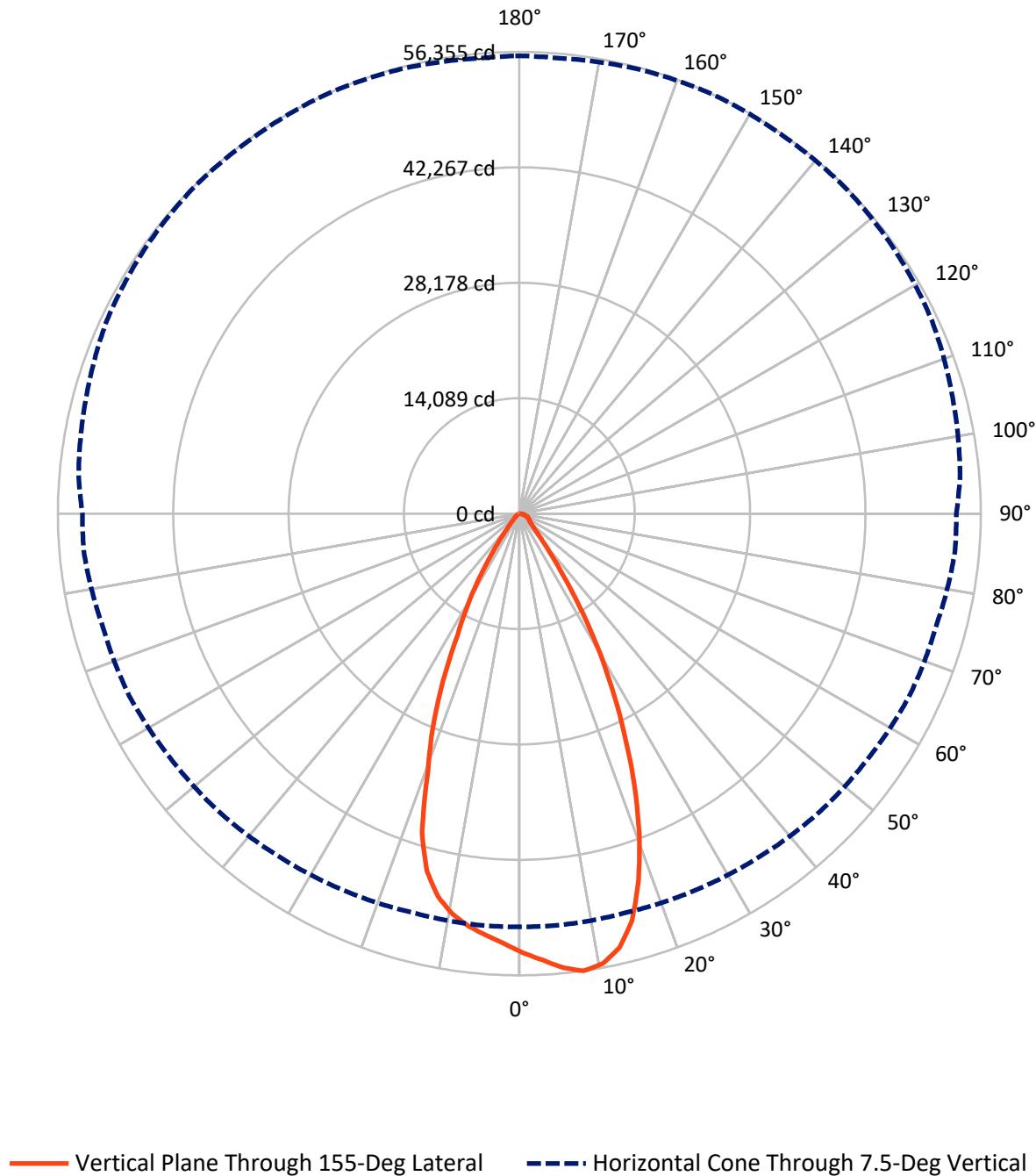
Based on 20 foot mounting height. Maximum calculated value = 136.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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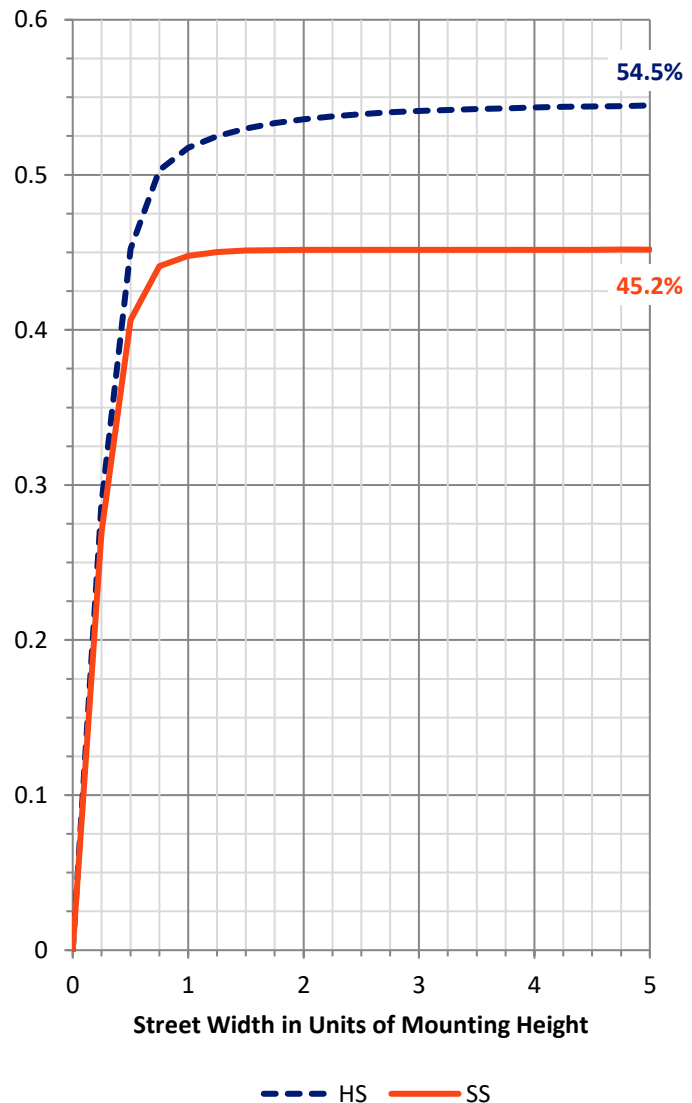
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21250.3	0.0	21250.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	17244.0	0.0	17244.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	38494.3	0.0	38494.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5113.5	13.3
10°-20°	13259.4	34.4
20°-30°	12149.3	31.6
30°-40°	4908.3	12.8
40°-50°	1439.9	3.7
50°-60°	805.1	2.1
60°-70°	489.0	1.3
70°-80°	248.4	0.6
80°-90°	81.3	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°	38494.3	100.0
0°-180°	38494.3	100.0

Coefficient of Utilization



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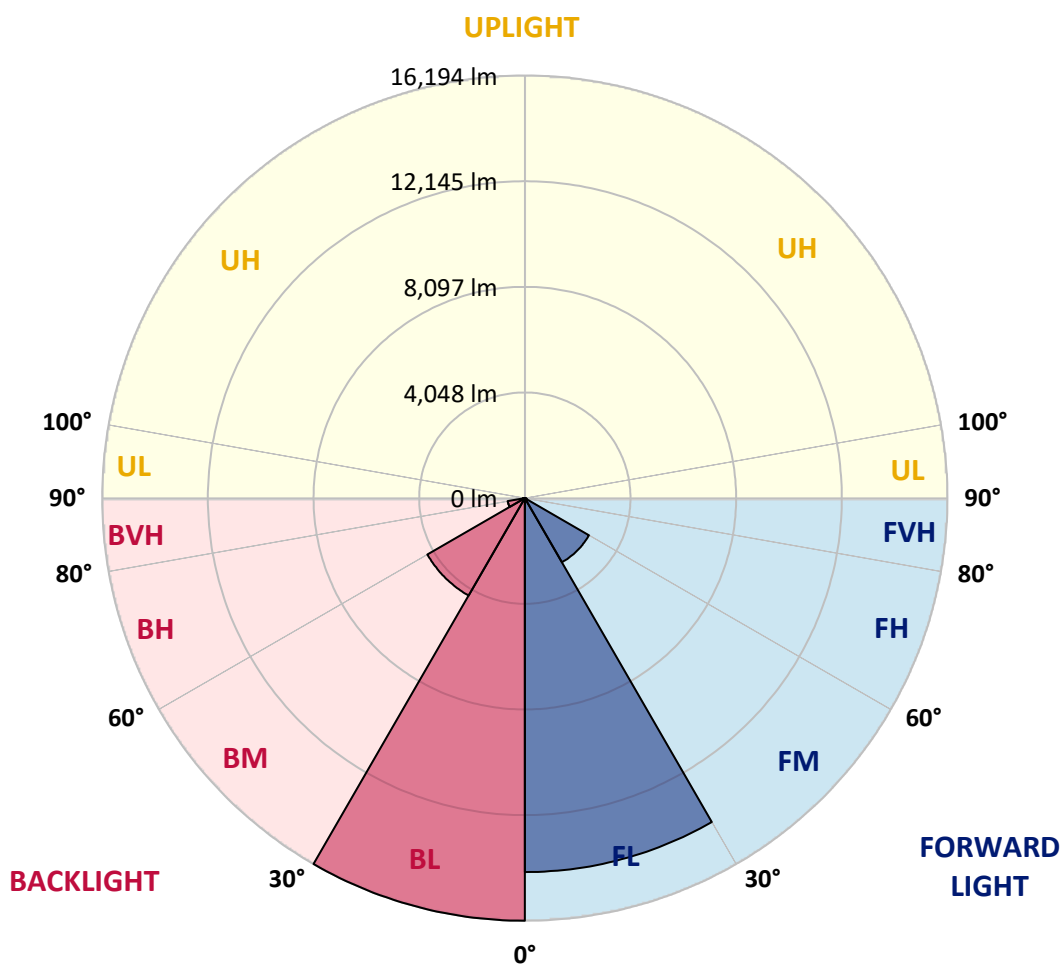
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14328.6	37.2			
FM	(30°-60°)	2839.7	7.4			
FH	(60°-80°)	68.8	0.2			G0/660
FVH	(80°-90°)	7.0	0.0			G0/10
BL	(0°-30°)	16193.8	42.1	B5		
BM	(30°-60°)	4313.6	11.2	B3/5000		
BH	(60°-80°)	668.6	1.7	B2/1000		G2/1000
BVH	(80°-90°)	74.2	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°	53625.6	53625.6	53625.6	53625.6	53625.6	53625.6	53625.6	53625.6	53625.6	53625.6
2.5°	52462.6	52640.1	52285.0	52520.3	52702.3	53137.3	53172.8	53323.7	53377.0	53772.0
5°	51468.3	51605.9	51317.4	51632.5	51890.0	52276.1	52573.5	52990.8	53221.6	53687.7
7.5°	50434.0	50465.1	50407.4	50740.3	51126.5	51659.1	52027.6	52573.5	52715.6	53381.4
10°	49182.3	48955.9	49066.9	49555.1	50132.2	50948.9	51201.9	51747.9	52000.9	52680.1
12.5°	47184.8	47300.2	47162.6	47784.0	48263.4	49191.2	49457.5	50007.9	50491.7	51091.0
15°	44370.6	44304.0	44583.6	45067.5	45586.8	46323.7	46754.2	47353.5	47721.9	48343.3
17.5°	38045.2	38271.6	39425.7	40637.5	41702.8	42564.0	43078.9	43576.0	43842.4	44517.1
20°	32856.2	32572.2	32727.5	33411.1	36442.8	37761.2	38302.7	38422.5	38533.5	39066.2
22.5°	27054.7	26961.5	27480.8	28248.7	28967.8	32008.4	32745.3	32465.6	32696.5	33198.0
25°	20090.2	20560.7	21022.3	22496.0	23428.2	24919.6	26317.8	26442.1	26526.5	26841.6
27.5°	16352.7	16188.4	16179.5	16592.4	17968.4	19211.3	20400.9	20676.1	20627.3	20929.1
30°	12854.9	12801.6	12615.2	12712.8	12575.2	13680.5	14239.8	15371.7	15309.5	15318.4
32.5°	9272.7	9073.0	8997.5	9144.0	9002.0	8899.9	9388.1	10666.5	10644.3	10733.1
35°	5610.7	5584.1	5646.2	5774.9	5490.8	5482.0	5584.1	6787.0	6933.5	7075.5
37.5°	3098.3	3071.7	3120.5	3595.5	3502.2	3417.9	3444.5	4079.3	4501.0	4607.5
40°	2041.9	2037.4	2072.9	2157.3	2317.1	2286.0	2299.3	2583.4	2982.9	3076.1
42.5°	1367.2	1371.6	1393.8	1491.4	1513.6	1673.4	1646.8	1713.4	2086.3	2166.2
45°	1092.0	1087.5	1100.8	1056.4	1083.1	1247.3	1265.1	1269.5	1589.1	1637.9
47.5°	861.1	861.1	874.5	816.7	803.4	905.5	998.7	1012.1	1269.5	1336.1
50°	603.7	603.7	670.3	643.6	674.7	705.8	807.9	821.2	1038.7	1109.7
52.5°	443.9	452.8	461.6	466.1	568.2	563.7	652.5	714.7	785.7	910.0
55°	337.4	346.2	324.0	346.2	421.7	470.5	488.3	577.0	625.9	763.5
57.5°	221.9	244.1	226.4	266.3	284.1	364.0	390.6	475.0	506.0	625.9
60°	31.1	35.5	57.7	186.4	199.7	239.7	301.8	377.3	408.4	510.5
62.5°	4.4	4.4	13.3	31.1	133.2	159.8	226.4	261.9	301.8	381.7
65°	0.0	0.0	4.4	8.9	26.6	93.2	115.4	142.0	208.6	275.2
67.5°	0.0	0.0	4.4	8.9	13.3	31.1	48.8	93.2	119.8	190.9
70°	0.0	0.0	4.4	8.9	13.3	17.8	26.6	35.5	71.0	111.0
72.5°	0.0	0.0	4.4	8.9	13.3	17.8	22.2	26.6	31.1	71.0
75°	0.0	0.0	4.4	8.9	13.3	22.2	26.6	26.6	26.6	31.1
77.5°	0.0	0.0	4.4	8.9	17.8	26.6	31.1	26.6	22.2	22.2
80°	0.0	0.0	4.4	13.3	22.2	31.1	35.5	26.6	17.8	13.3
82.5°	0.0	0.0	4.4	13.3	22.2	31.1	35.5	31.1	17.8	13.3
85°	0.0	0.0	4.4	13.3	17.8	22.2	35.5	31.1	17.8	8.9
87.5°	0.0	0.0	0.0	4.4	4.4	8.9	17.8	13.3	8.9	4.4
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°
53625.6	0°	53625.6	53625.6	53625.6	53625.6	53625.6	53625.6	53625.6	53625.6	53625.6
53763.2	2.5°	54162.7	54362.4	54713.1	54810.7	55112.6	54766.3	54575.5	54593.2	54180.4
53630.0	5°	54162.7	54619.9	55232.4	55525.4	55747.3	55729.6	55680.7	55556.4	55254.6
53363.7	7.5°	54020.6	54766.3	55609.7	56000.3	56266.7	56244.5	56355.4	56155.7	55787.3
52888.7	10°	53563.4	54211.5	55250.2	55569.8	56000.3	56009.2	55871.6	55911.6	55254.6
51153.1	12.5°	52125.2	52631.3	53541.2	53905.2	54429.0	54513.3	54362.4	54304.7	53683.3
48307.8	15°	49342.1	49635.0	50549.4	50913.4	51432.8	51361.7	51512.7	51450.5	50904.5
44463.8	17.5°	45271.7	45364.9	46323.7	46629.9	47118.2	47309.1	47082.7	47371.2	46900.7
39159.4	20°	39434.6	39936.2	41014.8	41485.3	41769.4	42111.2	41813.8	42137.8	41587.4
32723.1	22.5°	33513.2	33810.6	34787.1	35466.3	35994.5	36061.1	35950.1	36176.5	35435.2
27050.3	25°	27045.8	27538.5	28310.9	29198.6	29718.0	30037.6	29749.1	29895.5	29775.7
20977.9	27.5°	21333.0	21772.5	22354.0	23015.4	23796.6	24213.8	23983.0	24231.6	23645.7
15642.5	30°	15655.8	15877.7	16534.7	17236.0	18092.7	18598.7	18620.9	18873.9	18527.7
10959.5	32.5°	11039.4	11234.7	11638.6	12104.7	12921.4	13485.2	13396.4	13431.9	13218.8
7142.1	35°	7177.6	7439.5	7728.0	7950.0	8442.7	9064.1	9015.3	8970.9	8824.4
4696.3	37.5°	4798.4	4900.5	5060.3	5260.0	5579.6	5970.2	6099.0	5939.2	5877.0
3169.3	40°	3244.8	3422.3	3528.9	3679.8	3830.7	4159.2	4248.0	4216.9	4154.7
2219.4	42.5°	2303.8	2441.4	2574.5	2721.0	2800.9	3005.1	3178.2	3129.4	3102.7
1686.8	45°	1748.9	1873.2	2028.5	2139.5	2219.4	2339.3	2503.5	2521.3	2481.3
1353.8	47.5°	1402.7	1513.6	1637.9	1775.5	1868.7	1944.2	2086.3	2139.5	2112.9
1140.8	50°	1189.6	1273.9	1393.8	1531.4	1633.5	1700.1	1824.4	1882.1	1864.3
954.3	52.5°	1012.1	1114.1	1225.1	1340.5	1464.8	1531.4	1646.8	1731.1	1717.8
790.1	55°	838.9	972.1	1087.5	1202.9	1345.0	1411.5	1513.6	1624.6	1602.4
670.3	57.5°	732.4	843.4	963.2	1074.2	1225.1	1313.9	1407.1	1522.5	1518.1
550.4	60°	612.6	723.5	856.7	949.9	1109.7	1234.0	1318.3	1438.2	1447.1
417.3	62.5°	488.3	625.9	728.0	856.7	1003.2	1149.7	1229.6	1349.4	1393.8
319.6	65°	364.0	514.9	630.3	759.0	896.6	1060.9	1131.9	1251.8	1296.1
230.8	67.5°	270.8	386.2	532.7	643.6	799.0	941.0	1025.4	1136.3	1167.4
137.6	70°	204.2	297.4	443.9	541.5	701.3	816.7	901.1	985.4	1025.4
93.2	72.5°	119.8	221.9	350.7	466.1	603.7	701.3	763.5	830.1	856.7
44.4	75°	84.3	168.7	275.2	386.2	488.3	568.2	625.9	683.6	710.2
22.2	77.5°	44.4	124.3	217.5	310.7	381.7	448.3	506.0	550.4	568.2
17.8	80°	26.6	88.8	177.6	244.1	293.0	350.7	408.4	439.4	435.0
13.3	82.5°	17.8	71.0	128.7	177.6	213.1	257.5	297.4	319.6	319.6
8.9	85°	13.3	48.8	88.8	137.6	142.0	177.6	186.4	208.6	213.1
8.9	87.5°	8.9	31.1	48.8	79.9	75.5	93.2	97.7	111.0	119.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
53625.6
53847.5
55352.3
55871.6
55063.7
53541.2
51077.7
46785.3
41543.0
35333.1
29700.2
23796.6
18589.8
13338.7
8695.7
5863.7
4163.6
3080.6
2476.9
2099.6
1859.9
1709.0
1602.4
1513.6
1447.1
1389.4
1291.7
1167.4
1016.5
847.8
701.3
563.7
430.6
315.2
208.6
115.4
0.0

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