

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: P637687

Luminaire Tested: **IFLD-L-SA7C-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637687
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-750-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42595.4 lumens
Efficiency: N/A
Efficacy: 115.4 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



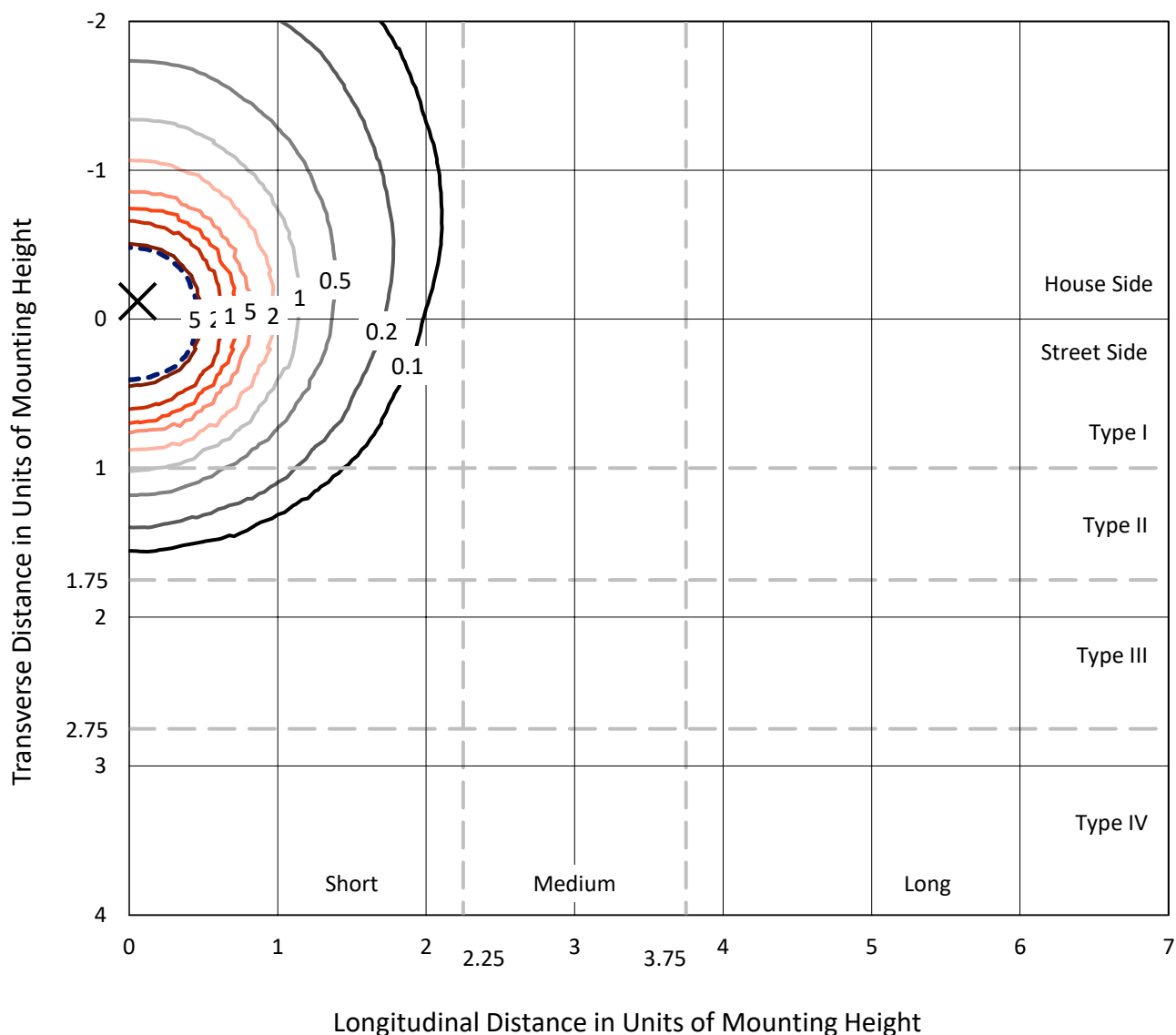
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



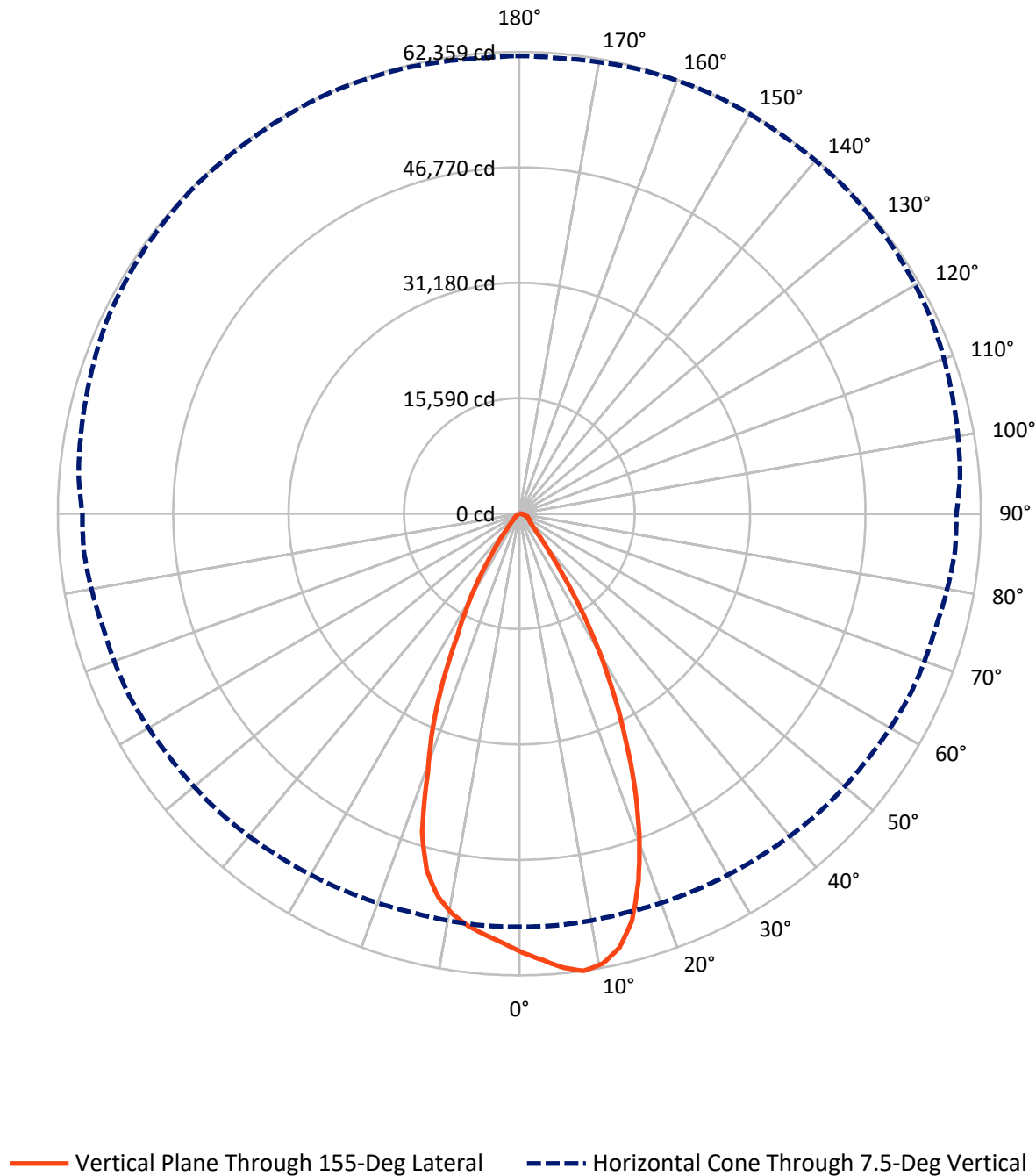
Based on 20 foot mounting height. Maximum calculated value = 150.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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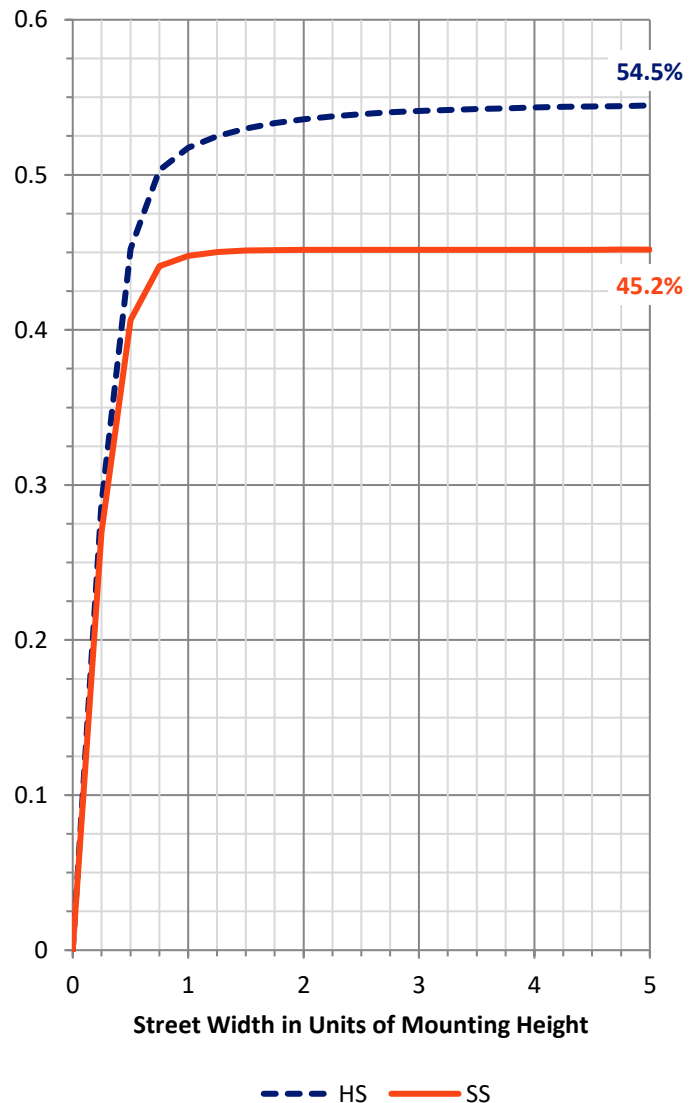
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23514.2	0.0	23514.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	19081.2	0.0	19081.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	42595.4	0.0	42595.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5658.3	13.3
10°-20°	14672.1	34.4
20°-30°	13443.7	31.6
30°-40°	5431.3	12.8
40°-50°	1593.3	3.7
50°-60°	890.8	2.1
60°-70°	541.1	1.3
70°-80°	274.9	0.6
80°-90°	89.9	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°	42595.4	100.0
0°-180°	42595.4	100.0

Coefficient of Utilization



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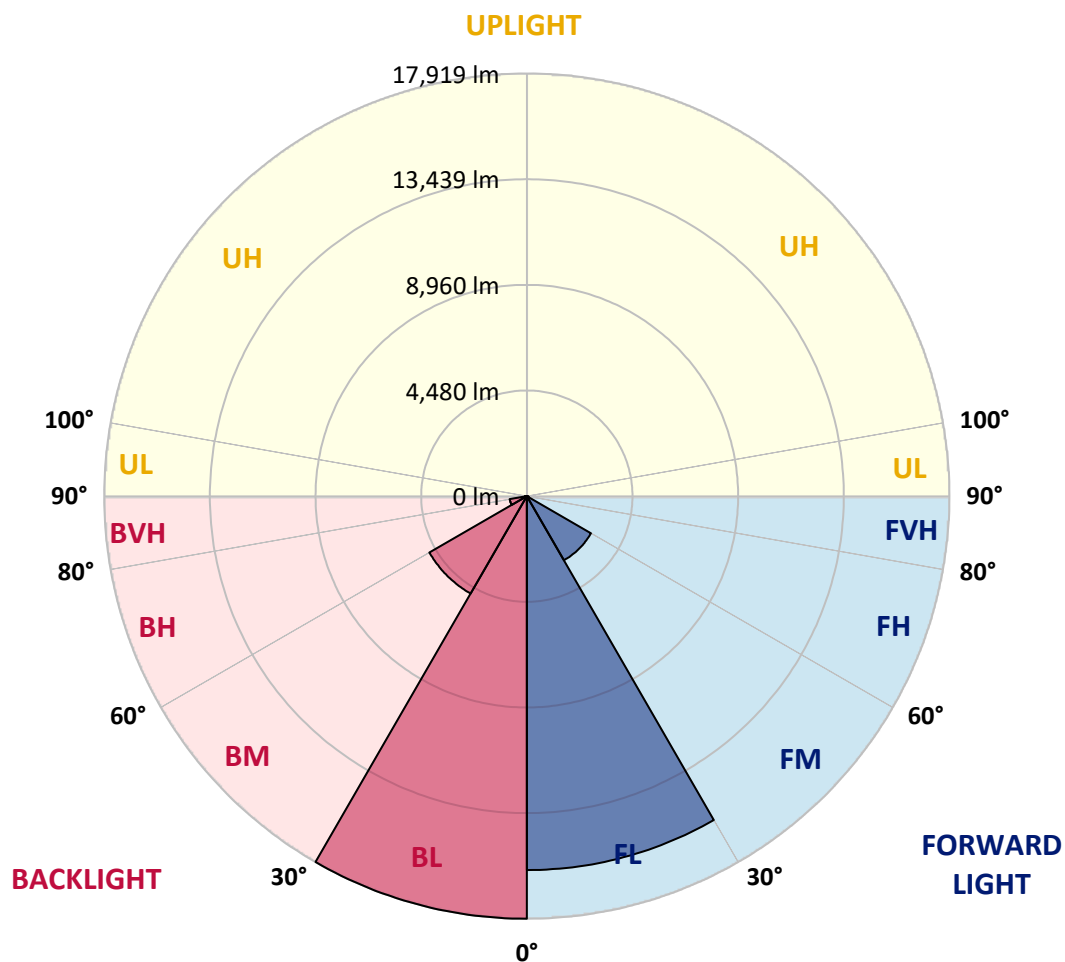
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	15855.1	37.2			
FM	(30°-60°)	3142.2	7.4			
FH	(60°-80°)	76.1	0.2			G0/660
FVH	(80°-90°)	7.8	0.0			G0/10
BL	(0°-30°)	17919.0	42.1	B5		
BM	(30°-60°)	4773.2	11.2	B3/5000		
BH	(60°-80°)	739.9	1.7	B2/1000		G2/1000
BVH	(80°-90°)	82.1	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°	59338.7	59338.7	59338.7	59338.7	59338.7	59338.7	59338.7	59338.7	59338.7	59338.7
2.5°	58051.8	58248.3	57855.4	58115.7	58317.1	58798.4	58837.7	59004.7	59063.7	59500.8
5°	56951.6	57103.9	56784.6	57133.3	57418.2	57845.5	58174.6	58636.3	58891.7	59407.5
7.5°	55807.2	55841.6	55777.7	56146.1	56573.4	57162.8	57570.5	58174.6	58331.8	59068.6
10°	54422.1	54171.6	54294.4	54834.6	55473.2	56376.9	56656.9	57261.0	57541.0	58292.5
12.5°	52211.8	52339.5	52187.2	52874.9	53405.3	54431.9	54726.6	55335.6	55871.0	56534.1
15°	49097.7	49024.1	49333.5	49868.9	50443.6	51258.9	51735.3	52398.4	52806.1	53493.7
17.5°	42098.5	42349.0	43626.1	44967.0	46145.8	47098.7	47668.4	48218.5	48513.2	49259.8
20°	36356.7	36042.3	36214.2	36970.7	40325.4	41784.2	42383.4	42516.0	42638.8	43228.2
22.5°	29937.0	29833.9	30408.6	31258.3	32054.0	35418.5	36233.9	35924.5	36179.9	36734.9
25°	22230.5	22751.2	23262.0	24892.7	25924.2	27574.5	29121.7	29259.2	29352.5	29701.3
27.5°	18094.8	17913.1	17903.3	18360.1	19882.7	21258.0	22574.3	22878.9	22824.8	23158.8
30°	14224.4	14165.5	13959.2	14067.2	13915.0	15138.0	15756.9	17009.3	16940.6	16950.4
32.5°	10260.6	10039.6	9956.1	10118.2	9961.0	9848.0	10388.3	11802.9	11778.3	11876.6
35°	6208.4	6179.0	6247.7	6390.2	6075.8	6066.0	6179.0	7510.0	7672.1	7829.3
37.5°	3428.4	3398.9	3453.0	3978.5	3875.4	3782.0	3811.5	4513.9	4980.5	5098.4
40°	2259.4	2254.5	2293.8	2387.1	2563.9	2529.5	2544.3	2858.6	3300.7	3403.8
42.5°	1512.8	1517.7	1542.3	1650.3	1674.9	1851.7	1822.3	1895.9	2308.5	2396.9
45°	1208.3	1203.4	1218.1	1169.0	1198.5	1380.2	1399.8	1404.8	1758.4	1812.4
47.5°	952.9	952.9	967.6	903.8	889.0	1002.0	1105.1	1119.9	1404.8	1478.4
50°	668.0	668.0	741.7	712.2	746.6	781.0	893.9	908.7	1149.3	1227.9
52.5°	491.2	501.0	510.8	515.7	628.7	623.8	722.0	790.8	869.4	1006.9
55°	373.3	383.1	358.6	383.1	466.6	520.6	540.3	638.5	692.6	844.8
57.5°	245.6	270.1	250.5	294.7	314.4	402.8	432.2	525.6	559.9	692.6
60°	34.4	39.3	63.9	206.3	221.0	265.2	334.0	417.5	451.9	564.8
62.5°	4.9	4.9	14.7	34.4	147.4	176.8	250.5	289.8	334.0	422.4
65°	0.0	0.0	4.9	9.8	29.5	103.1	127.7	157.2	230.9	304.5
67.5°	0.0	0.0	4.9	9.8	14.7	34.4	54.0	103.1	132.6	211.2
70°	0.0	0.0	4.9	9.8	14.7	19.6	29.5	39.3	78.6	122.8
72.5°	0.0	0.0	4.9	9.8	14.7	19.6	24.6	29.5	34.4	78.6
75°	0.0	0.0	4.9	9.8	14.7	24.6	29.5	29.5	29.5	34.4
77.5°	0.0	0.0	4.9	9.8	19.6	29.5	34.4	29.5	24.6	24.6
80°	0.0	0.0	4.9	14.7	24.6	34.4	39.3	29.5	19.6	14.7
82.5°	0.0	0.0	4.9	14.7	24.6	34.4	39.3	34.4	19.6	14.7
85°	0.0	0.0	4.9	14.7	19.6	24.6	39.3	34.4	19.6	9.8
87.5°	0.0	0.0	0.0	4.9	4.9	9.8	19.6	14.7	9.8	4.9
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°
59338.7	0°	59338.7	59338.7	59338.7	59338.7	59338.7	59338.7	59338.7	59338.7	59338.7
59491.0	2.5°	59933.0	60154.1	60542.1	60650.1	60984.1	60601.0	60389.8	60409.5	59952.7
59343.6	5°	59933.0	60438.9	61116.8	61440.9	61686.5	61666.9	61612.8	61475.3	61141.3
59048.9	7.5°	59775.9	60601.0	61534.3	61966.5	62261.2	62236.6	62359.4	62138.4	61730.7
58523.4	10°	59269.9	59987.1	61136.4	61490.0	61966.5	61976.3	61824.0	61868.3	61141.3
56602.9	12.5°	57678.5	58238.5	59245.4	59648.1	60227.7	60321.1	60154.1	60090.2	59402.6
53454.4	15°	54598.9	54923.1	55934.9	56337.6	56912.3	56833.7	57000.7	56932.0	56327.8
49200.9	17.5°	50094.8	50198.0	51258.9	51597.8	52138.1	52349.3	52098.8	52418.1	51897.4
43331.4	20°	43635.9	44190.9	45384.5	45905.1	46219.5	46597.7	46268.6	46627.1	46018.1
36209.3	22.5°	37083.6	37412.7	38493.3	39244.8	39829.3	39903.0	39780.2	40030.7	39210.4
29932.1	25°	29927.2	30472.4	31327.1	32309.4	32884.1	33237.7	32918.5	33080.6	32947.9
23212.9	27.5°	23605.8	24092.1	24735.5	25467.4	26331.8	26793.5	26538.1	26813.2	26164.8
17309.0	30°	17323.7	17569.3	18296.2	19072.3	20020.2	20580.2	20604.7	20884.7	20501.6
12127.1	32.5°	12215.5	12431.6	12878.6	13394.3	14298.1	14921.9	14823.6	14862.9	14627.2
7903.0	35°	7942.3	8232.1	8551.3	8796.9	9342.1	10029.8	9975.7	9926.6	9764.5
5196.6	37.5°	5309.6	5422.6	5599.4	5820.4	6174.1	6606.3	6748.7	6571.9	6503.1
3507.0	40°	3590.5	3787.0	3904.8	4071.8	4238.8	4602.3	4700.5	4666.2	4597.4
2455.9	42.5°	2549.2	2701.5	2848.8	3010.9	3099.3	3325.2	3516.8	3462.8	3433.3
1866.5	45°	1935.2	2072.8	2244.7	2367.5	2455.9	2588.5	2770.2	2789.9	2745.7
1498.1	47.5°	1552.1	1674.9	1812.4	1964.7	2067.8	2151.3	2308.5	2367.5	2338.0
1262.3	50°	1316.3	1409.7	1542.3	1694.5	1807.5	1881.2	2018.7	2082.6	2062.9
1056.0	52.5°	1119.9	1232.8	1355.6	1483.3	1620.9	1694.5	1822.3	1915.6	1900.8
874.3	55°	928.3	1075.7	1203.4	1331.1	1488.3	1561.9	1674.9	1797.7	1773.1
741.7	57.5°	810.4	933.2	1065.8	1188.6	1355.6	1453.9	1557.0	1684.7	1679.8
609.1	60°	677.8	800.6	948.0	1051.1	1227.9	1365.5	1458.8	1591.4	1601.2
461.7	62.5°	540.3	692.6	805.5	948.0	1110.1	1272.1	1360.6	1493.2	1542.3
353.6	65°	402.8	569.8	697.5	839.9	992.2	1173.9	1252.5	1385.1	1434.2
255.4	67.5°	299.6	427.3	589.4	712.2	884.1	1041.3	1134.6	1257.4	1291.8
152.3	70°	225.9	329.1	491.2	599.2	776.1	903.8	997.1	1090.4	1134.6
103.1	72.5°	132.6	245.6	388.0	515.7	668.0	776.1	844.8	918.5	948.0
49.1	75°	93.3	186.6	304.5	427.3	540.3	628.7	692.6	756.4	785.9
24.6	77.5°	49.1	137.5	240.7	343.8	422.4	496.1	559.9	609.1	628.7
19.6	80°	29.5	98.2	196.5	270.1	324.2	388.0	451.9	486.3	481.4
14.7	82.5°	19.6	78.6	142.4	196.5	235.8	284.9	329.1	353.6	353.6
9.8	85°	14.7	54.0	98.2	152.3	157.2	196.5	206.3	230.9	235.8
9.8	87.5°	9.8	34.4	54.0	88.4	83.5	103.1	108.1	122.8	132.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
59338.7
59584.3
61249.4
61824.0
60930.1
59245.4
56519.4
51769.7
45969.0
39097.4
32864.4
26331.8
20570.4
14759.8
9622.1
6488.4
4607.2
3408.7
2740.7
2323.3
2058.0
1891.0
1773.1
1674.9
1601.2
1537.4
1429.3
1291.8
1124.8
938.1
776.1
623.8
476.4
348.7
230.9
127.7
0.0

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