

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: P637778

Luminaire Tested: **IFLD-L-SA8B-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637778
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30377.5 lumens
Efficiency: N/A
Efficacy: 94.9 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): 320
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



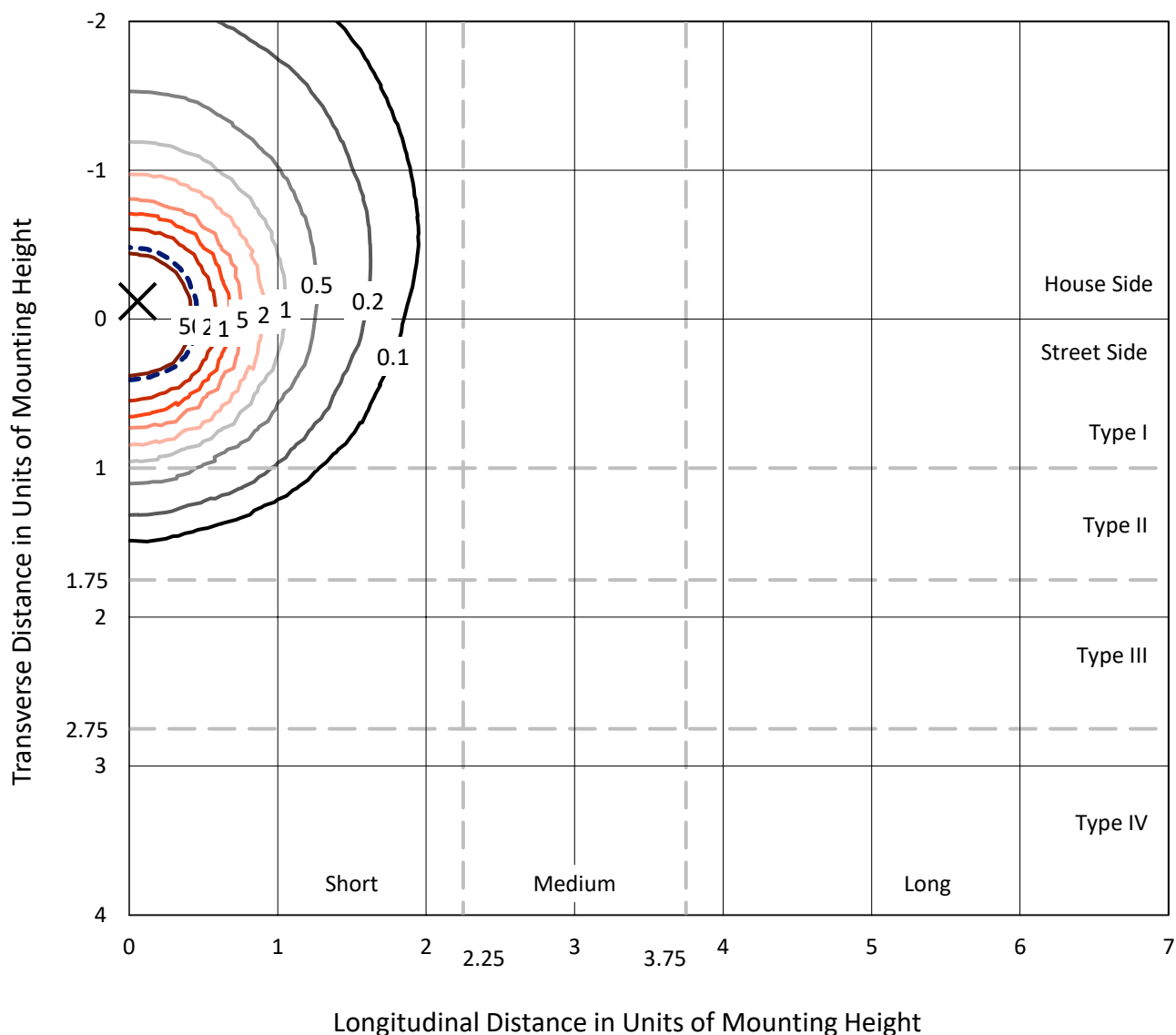
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



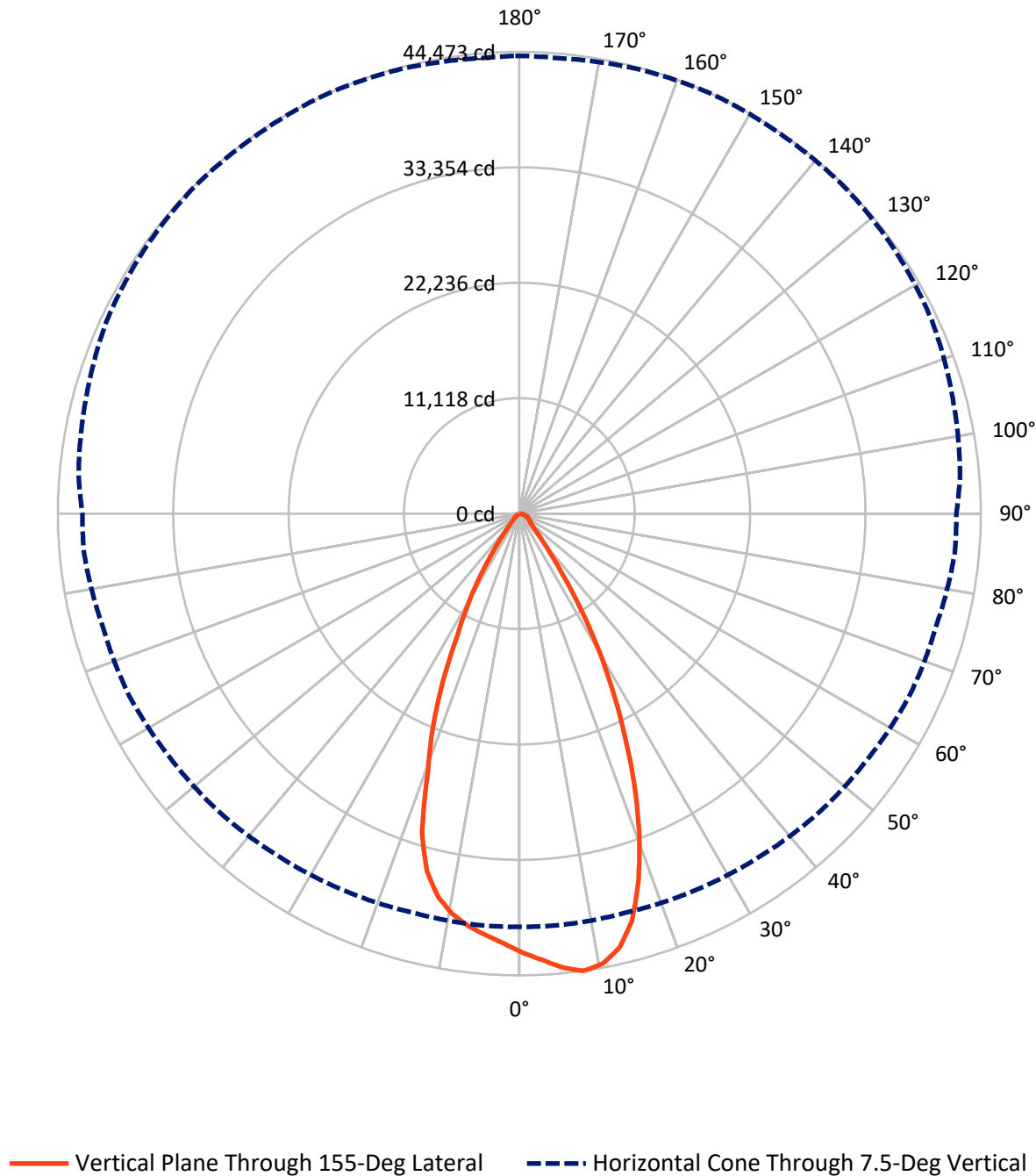
Based on 20 foot mounting height. Maximum calculated value = 107.5 fc

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	16769.5	0.0	16769.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13608.0	0.0	13608.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	30377.5	0.0	30377.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4035.3	13.3
10°-20°	10463.6	34.4
20°-30°	9587.6	31.6
30°-40°	3873.4	12.8
40°-50°	1136.3	3.7
50°-60°	635.3	2.1
60°-70°	385.9	1.3
70°-80°	196.1	0.6
80°-90°	64.1	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°	30377.5	100.0
0°-180°	30377.5	100.0

Coefficient of Utilization



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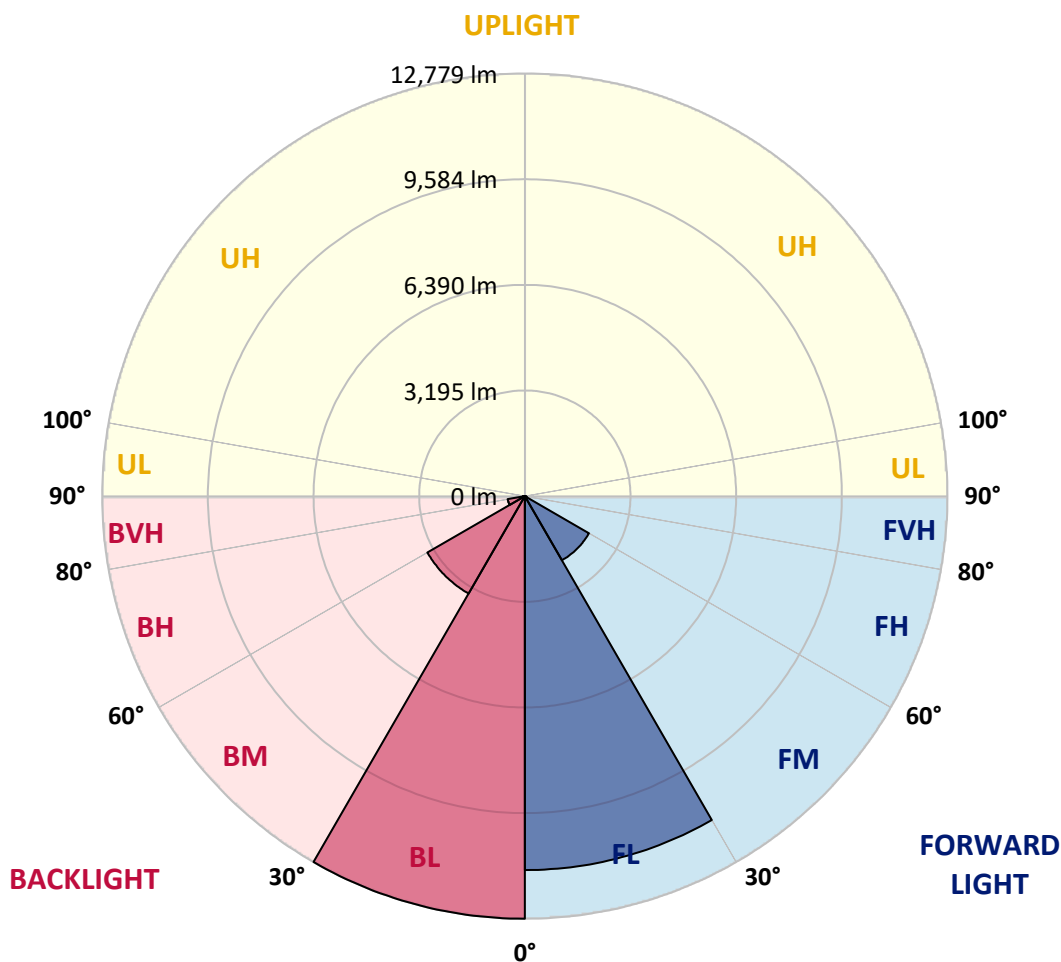
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11307.3	37.2			
FM	(30°-60°)	2240.9	7.4			
FH	(60°-80°)	54.3	0.2			G0/660
FVH	(80°-90°)	5.6	0.0			G0/10
BL	(0°-30°)	12779.2	42.1	B5		
BM	(30°-60°)	3404.1	11.2	B3/5000		
BH	(60°-80°)	527.7	1.7	B2/1000		G2/1000
BVH	(80°-90°)	58.6	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°	42318.3	42318.3	42318.3	42318.3	42318.3	42318.3	42318.3	42318.3	42318.3	42318.3
2.5°	41400.5	41540.6	41260.4	41446.0	41589.7	41932.9	41961.0	42080.1	42122.1	42433.8
5°	40615.9	40724.4	40496.8	40745.5	40948.6	41253.4	41488.1	41817.3	41999.5	42367.3
7.5°	39799.7	39824.2	39778.7	40041.4	40346.1	40766.5	41057.2	41488.1	41600.2	42125.6
10°	38811.9	38633.2	38720.8	39106.1	39561.5	40206.0	40405.7	40836.5	41036.2	41572.1
12.5°	37235.6	37326.7	37218.1	37708.5	38086.8	38818.9	39029.1	39463.4	39845.2	40318.1
15°	35014.8	34962.2	35182.9	35564.7	35974.5	36556.0	36895.8	37368.7	37659.4	38149.8
17.5°	30023.2	30201.8	31112.5	32068.8	32909.5	33589.1	33995.4	34387.7	34597.9	35130.3
20°	25928.3	25704.1	25826.7	26366.2	28758.6	29799.0	30226.3	30320.9	30408.5	30828.8
22.5°	21350.0	21276.5	21686.3	22292.3	22859.8	25259.2	25840.7	25620.0	25802.2	26198.0
25°	15854.0	16225.3	16589.6	17752.6	18488.2	19665.1	20768.6	20866.6	20933.2	21181.9
27.5°	12904.6	12775.0	12768.0	13093.8	14179.6	15160.4	16099.2	16316.4	16277.9	16516.1
30°	10144.3	10102.3	9955.2	10032.2	9923.6	10795.9	11237.2	12130.5	12081.4	12088.4
32.5°	7317.5	7159.9	7100.3	7215.9	7103.8	7023.3	7408.6	8417.4	8399.9	8470.0
35°	4427.6	4406.6	4455.7	4557.2	4333.1	4326.1	4406.6	5355.9	5471.5	5583.6
37.5°	2445.0	2424.0	2462.5	2837.3	2763.8	2697.2	2718.2	3219.1	3551.9	3636.0
40°	1611.3	1607.8	1635.8	1702.4	1828.5	1804.0	1814.5	2038.7	2353.9	2427.5
42.5°	1078.9	1082.4	1099.9	1177.0	1194.5	1320.6	1299.6	1352.1	1646.4	1709.4
45°	861.7	858.2	868.7	833.7	854.7	984.3	998.3	1001.8	1254.0	1292.6
47.5°	679.6	679.6	690.1	644.5	634.0	714.6	788.1	798.7	1001.8	1054.4
50°	476.4	476.4	528.9	507.9	532.4	557.0	637.5	648.0	819.7	875.7
52.5°	350.3	357.3	364.3	367.8	448.4	444.9	514.9	564.0	620.0	718.1
55°	266.2	273.2	255.7	273.2	332.8	371.3	385.3	455.4	493.9	602.5
57.5°	175.1	192.7	178.6	210.2	224.2	287.2	308.3	374.8	399.3	493.9
60°	24.5	28.0	45.5	147.1	157.6	189.2	238.2	297.7	322.3	402.8
62.5°	3.5	3.5	10.5	24.5	105.1	126.1	178.6	206.7	238.2	301.2
65°	0.0	0.0	3.5	7.0	21.0	73.6	91.1	112.1	164.6	217.2
67.5°	0.0	0.0	3.5	7.0	10.5	24.5	38.5	73.6	94.6	150.6
70°	0.0	0.0	3.5	7.0	10.5	14.0	21.0	28.0	56.0	87.6
72.5°	0.0	0.0	3.5	7.0	10.5	14.0	17.5	21.0	24.5	56.0
75°	0.0	0.0	3.5	7.0	10.5	17.5	21.0	21.0	21.0	24.5
77.5°	0.0	0.0	3.5	7.0	14.0	21.0	24.5	21.0	17.5	17.5
80°	0.0	0.0	3.5	10.5	17.5	24.5	28.0	21.0	14.0	10.5
82.5°	0.0	0.0	3.5	10.5	17.5	24.5	28.0	24.5	14.0	10.5
85°	0.0	0.0	3.5	10.5	14.0	17.5	28.0	24.5	14.0	7.0
87.5°	0.0	0.0	0.0	3.5	3.5	7.0	14.0	10.5	7.0	3.5
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°
42318.3	0°	42318.3	42318.3	42318.3	42318.3	42318.3	42318.3	42318.3	42318.3	42318.3
42426.8	2.5°	42742.1	42899.7	43176.5	43253.5	43491.7	43218.5	43067.9	43081.9	42756.1
42321.8	5°	42742.1	43102.9	43586.3	43817.5	43992.6	43978.6	43940.1	43842.0	43603.8
42111.6	7.5°	42630.0	43218.5	43884.0	44192.3	44402.5	44384.9	44472.5	44314.9	44024.2
41736.8	10°	42269.2	42780.6	43600.3	43852.5	44192.3	44199.3	44090.7	44122.2	43603.8
40367.1	12.5°	41134.3	41533.6	42251.7	42538.9	42952.3	43018.8	42899.7	42854.2	42363.8
38121.8	15°	38938.0	39169.2	39890.8	40178.0	40587.8	40531.8	40650.9	40601.8	40171.0
35088.3	17.5°	35725.8	35799.4	36556.0	36797.7	37183.0	37333.7	37155.0	37382.7	37011.4
30902.4	20°	31119.6	31515.4	32366.6	32737.9	32962.1	33231.8	32997.1	33252.8	32818.4
25823.2	22.5°	26446.7	26681.4	27452.0	27988.0	28404.8	28457.4	28369.8	28548.4	27963.5
21346.5	25°	21343.0	21731.8	22341.3	23041.9	23451.8	23704.0	23476.3	23591.9	23497.3
16554.6	27.5°	16834.8	17181.6	17640.5	18162.4	18778.9	19108.2	18926.0	19122.2	18659.8
12344.1	30°	12354.6	12529.8	13048.2	13601.7	14277.7	14677.1	14694.6	14894.2	14621.0
8648.6	32.5°	8711.7	8865.8	9184.5	9552.3	10196.9	10641.7	10571.7	10599.7	10431.6
5636.1	35°	5664.2	5870.8	6098.5	6273.7	6662.5	7152.9	7114.3	7079.3	6963.7
3706.0	37.5°	3786.6	3867.2	3993.3	4150.9	4403.1	4711.4	4813.0	4686.8	4637.8
2501.1	40°	2560.6	2700.7	2784.8	2903.9	3023.0	3282.2	3352.3	3327.7	3278.7
1751.4	42.5°	1818.0	1926.6	2031.7	2147.3	2210.3	2371.4	2508.1	2469.5	2448.5
1331.1	45°	1380.1	1478.2	1600.8	1688.4	1751.4	1846.0	1975.6	1989.6	1958.1
1068.4	47.5°	1106.9	1194.5	1292.6	1401.2	1474.7	1534.3	1646.4	1688.4	1667.4
900.2	50°	938.8	1005.3	1099.9	1208.5	1289.1	1341.6	1439.7	1485.2	1471.2
753.1	52.5°	798.7	879.2	966.8	1057.9	1155.9	1208.5	1299.6	1366.1	1355.6
623.5	55°	662.0	767.1	858.2	949.3	1061.4	1113.9	1194.5	1282.1	1264.5
528.9	57.5°	578.0	665.5	760.1	847.7	966.8	1036.9	1110.4	1201.5	1198.0
434.4	60°	483.4	571.0	676.1	749.6	875.7	973.8	1040.4	1134.9	1141.9
329.3	62.5°	385.3	493.9	574.5	676.1	791.7	907.2	970.3	1064.9	1099.9
252.2	65°	287.2	406.3	497.4	599.0	707.6	837.2	893.2	987.8	1022.8
182.1	67.5°	213.7	304.8	420.3	507.9	630.5	742.6	809.2	896.7	921.3
108.6	70°	161.1	234.7	350.3	427.4	553.5	644.5	711.1	777.6	809.2
73.6	72.5°	94.6	175.1	276.7	367.8	476.4	553.5	602.5	655.0	676.1
35.0	75°	66.6	133.1	217.2	304.8	385.3	448.4	493.9	539.4	560.5
17.5	77.5°	35.0	98.1	171.6	245.2	301.2	353.8	399.3	434.4	448.4
14.0	80°	21.0	70.1	140.1	192.7	231.2	276.7	322.3	346.8	343.3
10.5	82.5°	14.0	56.0	101.6	140.1	168.1	203.2	234.7	252.2	252.2
7.0	85°	10.5	38.5	70.1	108.6	112.1	140.1	147.1	164.6	168.1
7.0	87.5°	7.0	24.5	38.5	63.1	59.5	73.6	77.1	87.6	94.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
42318.3
42493.4
43680.9
44090.7
43453.2
42251.7
40307.6
36920.3
32783.4
27882.9
23437.7
18778.9
14670.0
10526.1
6862.1
4627.3
3285.7
2431.0
1954.6
1656.9
1467.7
1348.6
1264.5
1194.5
1141.9
1096.4
1019.3
921.3
802.2
669.0
553.5
444.9
339.8
248.7
164.6
91.1
0.0

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