

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: P637603

Luminaire Tested: **IFLD-L-SA8A-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637603
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29301.6 lumens
Efficiency: N/A
Efficacy: 118.2 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): 247.8
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



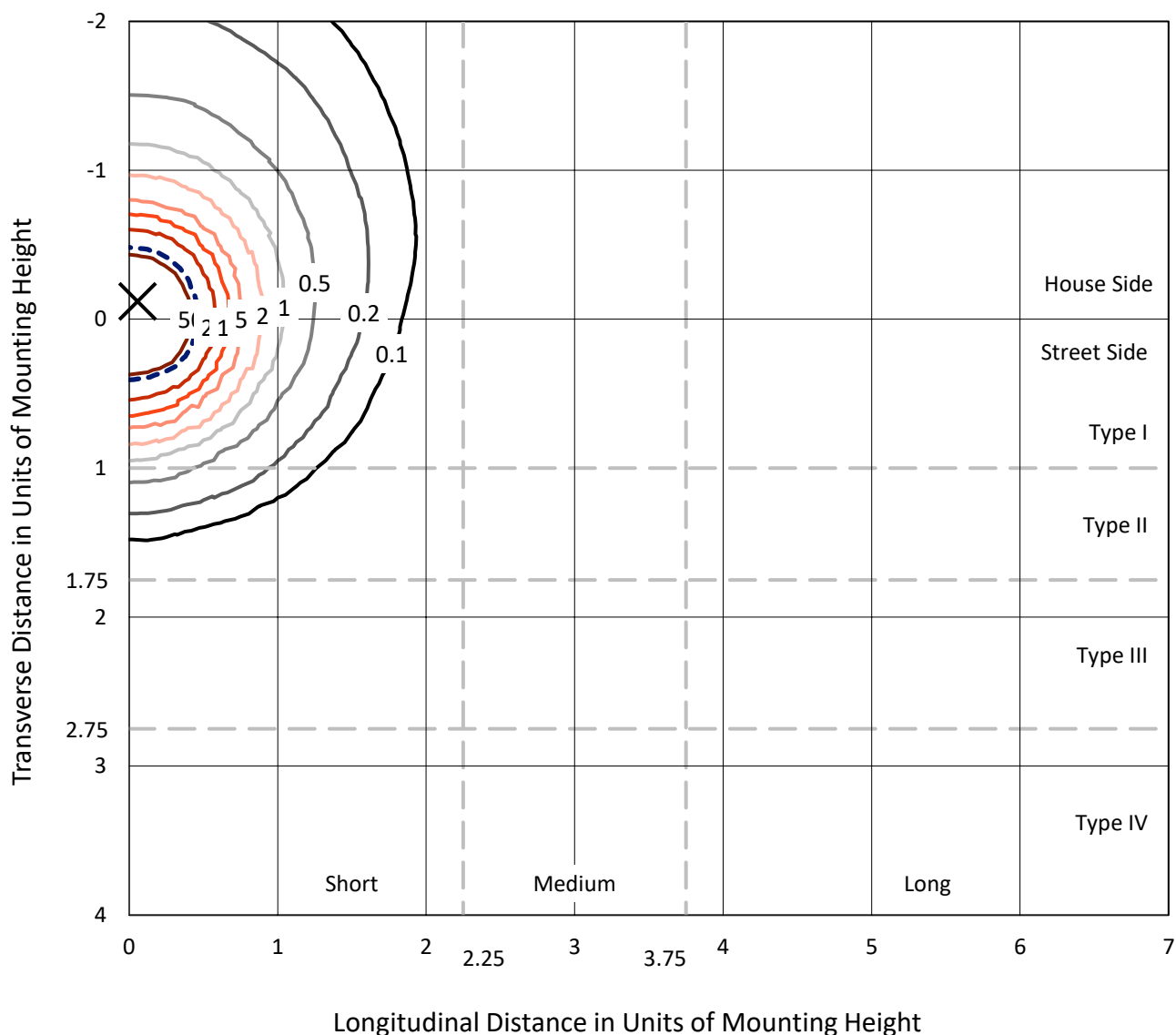
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

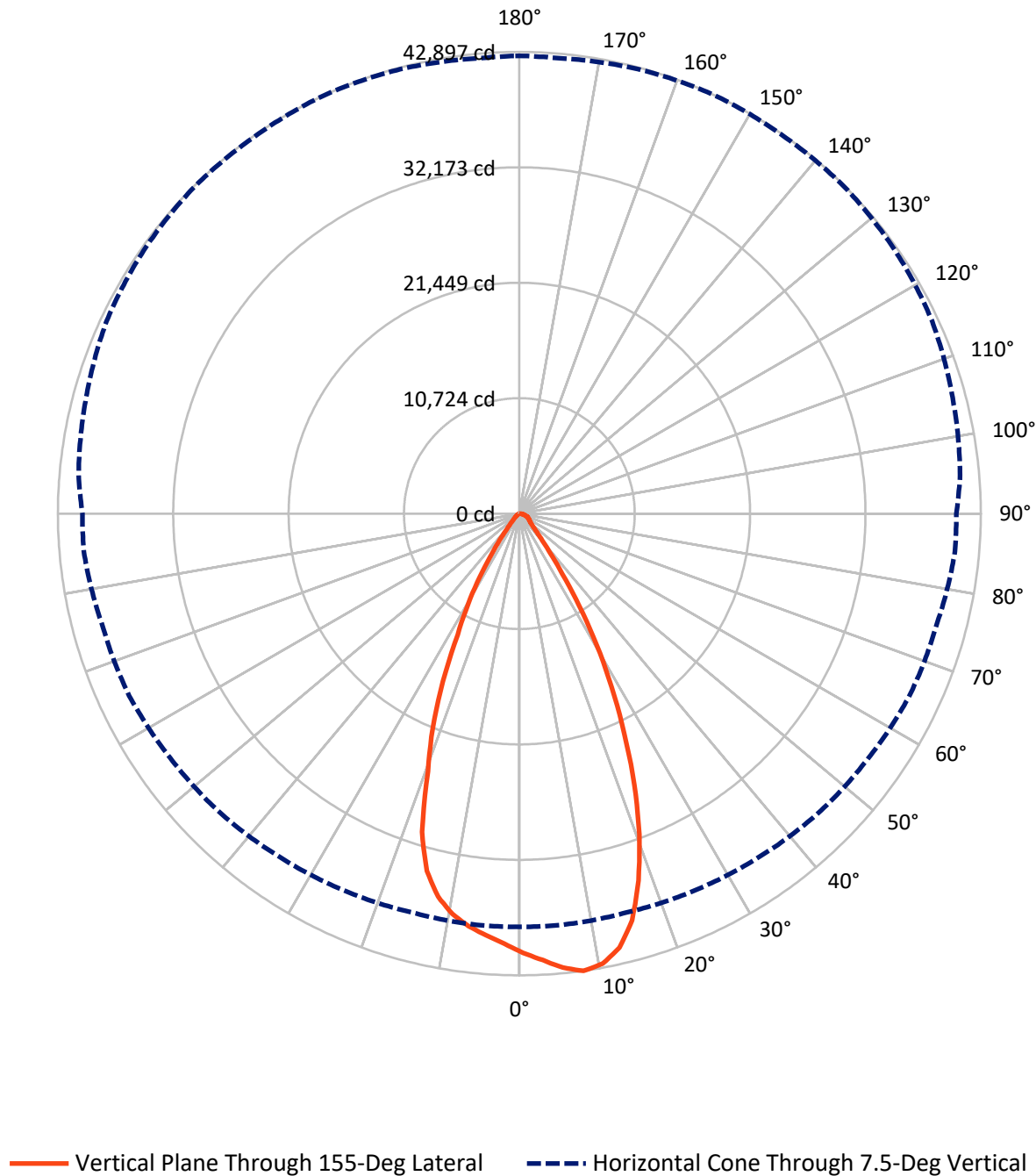


Based on 20 foot mounting height. Maximum calculated value = 103.7 fc

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	16175.5	0.0	16175.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13126.0	0.0	13126.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	29301.6	0.0	29301.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3892.4	13.3
10°-20°	10093.0	34.4
20°-30°	9248.0	31.6
30°-40°	3736.2	12.8
40°-50°	1096.0	3.7
50°-60°	612.8	2.1
60°-70°	372.2	1.3
70°-80°	189.1	0.6
80°-90°	61.9	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°	29301.6	100.0
0°-180°	29301.6	100.0

Coefficient of Utilization



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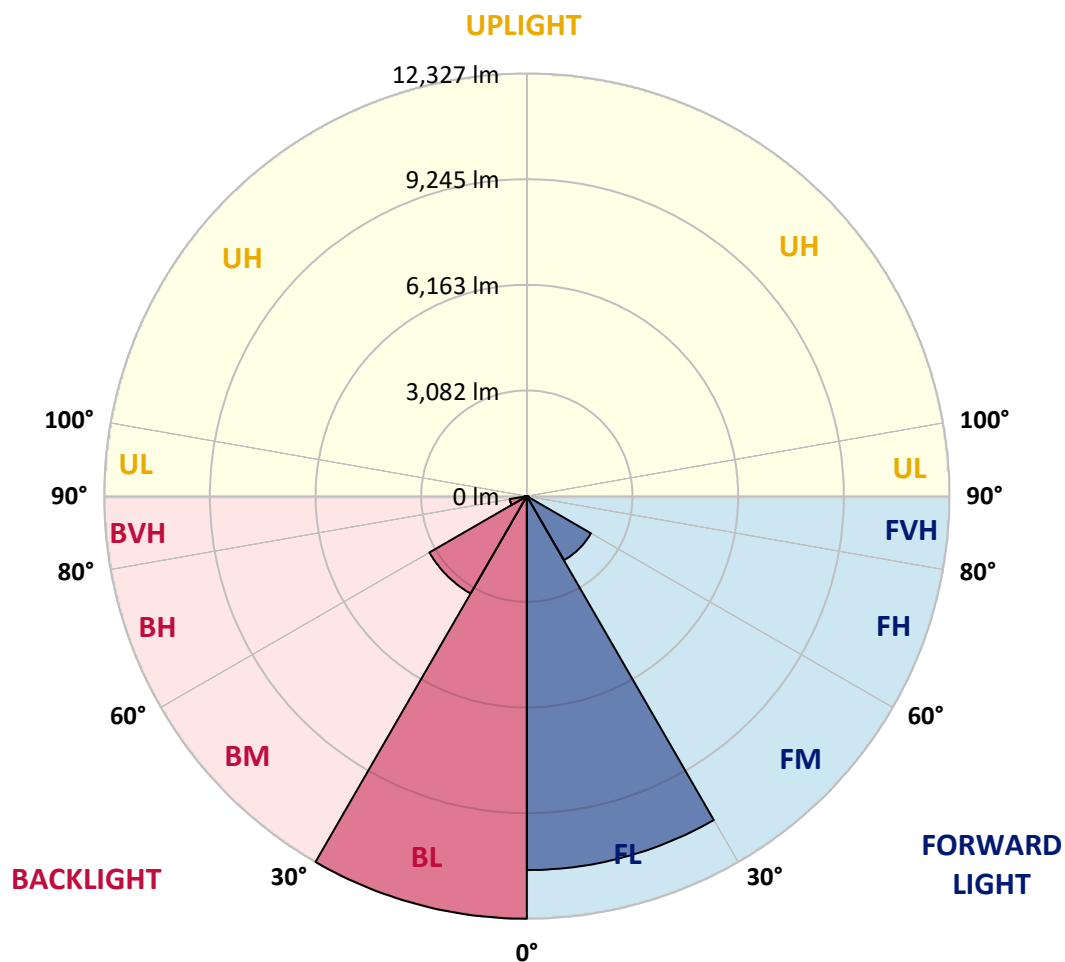
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10906.8	37.2			
FM	(30°-60°)	2161.5	7.4			
FH	(60°-80°)	52.4	0.2			G0/660
FVH	(80°-90°)	5.4	0.0			G0/10
BL	(0°-30°)	12326.6	42.1	B5		
BM	(30°-60°)	3283.5	11.2	B3/5000		
BH	(60°-80°)	509.0	1.7	B2/1000		G2/1000
BVH	(80°-90°)	56.5	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°	40819.4	40819.4	40819.4	40819.4	40819.4	40819.4	40819.4	40819.4	40819.4	40819.4
2.5°	39934.1	40069.3	39799.0	39978.0	40116.6	40447.7	40474.7	40589.6	40630.1	40930.9
5°	39177.3	39282.0	39062.4	39302.3	39498.2	39792.2	40018.6	40336.2	40511.9	40866.7
7.5°	38390.0	38413.6	38369.7	38623.1	38917.1	39322.5	39603.0	40018.6	40126.7	40633.5
10°	37437.2	37264.8	37349.3	37721.0	38160.2	38781.9	38974.5	39390.1	39582.7	40099.7
12.5°	35916.7	36004.6	35899.8	36372.8	36737.8	37443.9	37646.7	38065.6	38433.9	38890.1
15°	33774.5	33723.9	33936.7	34305.0	34700.3	35261.2	35589.0	36045.1	36325.5	36798.6
17.5°	28959.7	29132.1	30010.6	30933.0	31743.9	32399.4	32791.3	33169.7	33372.5	33886.0
20°	25009.9	24793.7	24911.9	25432.3	27740.0	28743.5	29155.7	29246.9	29331.4	29736.9
22.5°	20593.8	20522.9	20918.2	21502.7	22050.1	24364.6	24925.4	24712.6	24888.3	25270.1
25°	15292.5	15650.6	16002.0	17123.8	17833.3	18968.6	20032.9	20127.5	20191.7	20431.6
27.5°	12447.5	12322.5	12315.7	12630.0	13677.4	14623.5	15529.0	15738.5	15701.3	15931.1
30°	9785.0	9744.5	9602.6	9676.9	9572.2	10413.5	10839.2	11700.8	11653.5	11660.3
32.5°	7058.3	6906.3	6848.8	6960.3	6852.2	6774.5	7146.2	8119.3	8102.4	8170.0
35°	4270.8	4250.5	4297.8	4395.8	4179.6	4172.8	4250.5	5166.2	5277.7	5385.8
37.5°	2358.4	2338.1	2375.3	2736.8	2665.9	2601.7	2622.0	3105.1	3426.1	3507.2
40°	1554.3	1550.9	1577.9	1642.1	1763.7	1740.1	1750.2	1966.5	2270.6	2341.5
42.5°	1040.7	1044.1	1060.9	1135.3	1152.2	1273.8	1253.5	1304.2	1588.0	1648.9
45°	831.2	827.8	837.9	804.2	824.4	949.4	963.0	966.3	1209.6	1246.8
47.5°	655.5	655.5	665.6	621.7	611.6	689.3	760.2	770.4	966.3	1017.0
50°	459.5	459.5	510.2	489.9	513.6	537.2	614.9	625.1	790.6	844.7
52.5°	337.9	344.6	351.4	354.8	432.5	429.1	496.7	544.0	598.0	692.7
55°	256.8	263.5	246.7	263.5	321.0	358.2	371.7	439.2	476.4	581.2
57.5°	168.9	185.8	172.3	202.7	216.2	277.1	297.3	361.5	385.2	476.4
60°	23.7	27.0	43.9	141.9	152.0	182.5	229.8	287.2	310.9	388.6
62.5°	3.4	3.4	10.1	23.7	101.4	121.6	172.3	199.3	229.8	290.6
65°	0.0	0.0	3.4	6.8	20.3	71.0	87.8	108.1	158.8	209.5
67.5°	0.0	0.0	3.4	6.8	10.1	23.7	37.2	71.0	91.2	145.3
70°	0.0	0.0	3.4	6.8	10.1	13.5	20.3	27.0	54.1	84.5
72.5°	0.0	0.0	3.4	6.8	10.1	13.5	16.9	20.3	23.7	54.1
75°	0.0	0.0	3.4	6.8	10.1	16.9	20.3	20.3	20.3	23.7
77.5°	0.0	0.0	3.4	6.8	13.5	20.3	23.7	20.3	16.9	16.9
80°	0.0	0.0	3.4	10.1	16.9	23.7	27.0	20.3	13.5	10.1
82.5°	0.0	0.0	3.4	10.1	16.9	23.7	27.0	23.7	13.5	10.1
85°	0.0	0.0	3.4	10.1	13.5	16.9	27.0	23.7	13.5	6.8
87.5°	0.0	0.0	0.0	3.4	3.4	6.8	13.5	10.1	6.8	3.4
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°
40819.4	0°	40819.4	40819.4	40819.4	40819.4	40819.4	40819.4	40819.4	40819.4	40819.4
40924.1	2.5°	41228.2	41380.2	41647.2	41721.5	41951.3	41687.7	41542.4	41555.9	41241.7
40822.7	5°	41228.2	41576.2	42042.5	42265.5	42434.4	42420.9	42383.7	42289.1	42059.4
40620.0	7.5°	41120.1	41687.7	42329.7	42627.0	42829.7	42812.8	42897.3	42745.3	42464.8
40258.5	10°	40772.0	41265.4	42056.0	42299.3	42627.0	42633.8	42529.0	42559.4	42059.4
38937.4	12.5°	39677.3	40062.5	40755.2	41032.2	41430.9	41495.1	41380.2	41336.3	40863.3
36771.5	15°	37558.8	37781.8	38477.8	38754.9	39150.2	39096.2	39211.0	39163.7	38748.1
33845.5	17.5°	34460.4	34531.4	35261.2	35494.4	35866.0	36011.3	35839.0	36058.6	35700.5
29807.8	20°	30017.3	30399.1	31220.2	31578.3	31794.6	32054.7	31828.3	32075.0	31656.0
24908.6	22.5°	25510.0	25736.4	26479.7	26996.7	27398.7	27449.4	27364.9	27537.3	26973.0
20590.4	25°	20587.1	20962.1	21550.0	22225.8	22621.1	22864.4	22644.8	22756.3	22665.0
15968.2	27.5°	16238.5	16573.0	17015.7	17519.1	18113.8	18431.4	18255.7	18444.9	17998.9
11906.9	30°	11917.0	12086.0	12586.1	13119.9	13772.0	14157.2	14174.1	14366.7	14103.1
8342.3	32.5°	8403.1	8551.8	8859.2	9214.0	9835.7	10264.8	10197.2	10224.3	10062.1
5436.5	35°	5463.5	5662.9	5882.5	6051.4	6426.5	6899.5	6862.4	6828.6	6717.1
3574.8	37.5°	3652.5	3730.2	3851.8	4003.9	4247.2	4544.5	4642.5	4520.8	4473.5
2412.5	40°	2469.9	2605.1	2686.2	2801.0	2915.9	3165.9	3233.5	3209.9	3162.6
1689.4	42.5°	1753.6	1858.3	1959.7	2071.2	2132.0	2287.5	2419.2	2382.1	2361.8
1283.9	45°	1331.2	1425.9	1544.1	1628.6	1689.4	1780.6	1905.6	1919.2	1888.8
1030.5	47.5°	1067.7	1152.2	1246.8	1351.5	1422.5	1479.9	1588.0	1628.6	1608.3
868.4	50°	905.5	969.7	1060.9	1165.7	1243.4	1294.1	1388.7	1432.6	1419.1
726.4	52.5°	770.4	848.1	932.6	1020.4	1115.0	1165.7	1253.5	1317.7	1307.6
601.4	55°	638.6	740.0	827.8	915.7	1023.8	1074.5	1152.2	1236.6	1219.7
510.2	57.5°	557.5	642.0	733.2	817.7	932.6	1000.1	1071.1	1158.9	1155.6
419.0	60°	466.3	550.7	652.1	723.1	844.7	939.3	1003.5	1094.7	1101.5
317.6	62.5°	371.7	476.4	554.1	652.1	763.6	875.1	935.9	1027.2	1060.9
243.3	65°	277.1	391.9	479.8	577.8	682.5	807.5	861.6	952.8	986.6
175.7	67.5°	206.1	294.0	405.5	489.9	608.2	716.3	780.5	865.0	888.6
104.7	70°	155.4	226.4	337.9	412.2	533.9	621.7	685.9	750.1	780.5
71.0	72.5°	91.2	168.9	266.9	354.8	459.5	533.9	581.2	631.8	652.1
33.8	75°	64.2	128.4	209.5	294.0	371.7	432.5	476.4	520.3	540.6
16.9	77.5°	33.8	94.6	165.6	236.5	290.6	341.3	385.2	419.0	432.5
13.5	80°	20.3	67.6	135.2	185.8	223.0	266.9	310.9	334.5	331.1
10.1	82.5°	13.5	54.1	98.0	135.2	162.2	196.0	226.4	243.3	243.3
6.8	85°	10.1	37.2	67.6	104.7	108.1	135.2	141.9	158.8	162.2
6.8	87.5°	6.8	23.7	37.2	60.8	57.4	71.0	74.3	84.5	91.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
40819.4
40988.3
42133.7
42529.0
41914.1
40755.2
38879.9
35612.6
31622.2
26895.3
22607.6
18113.8
14150.4
10153.3
6619.1
4463.4
3169.3
2344.9
1885.4
1598.2
1415.7
1300.8
1219.7
1152.2
1101.5
1057.6
983.2
888.6
773.7
645.4
533.9
429.1
327.7
239.9
158.8
87.8
0.0

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