

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: P637683

Luminaire Tested: **IFLD-M-SA4D-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637683
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30059.3 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 249.7
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



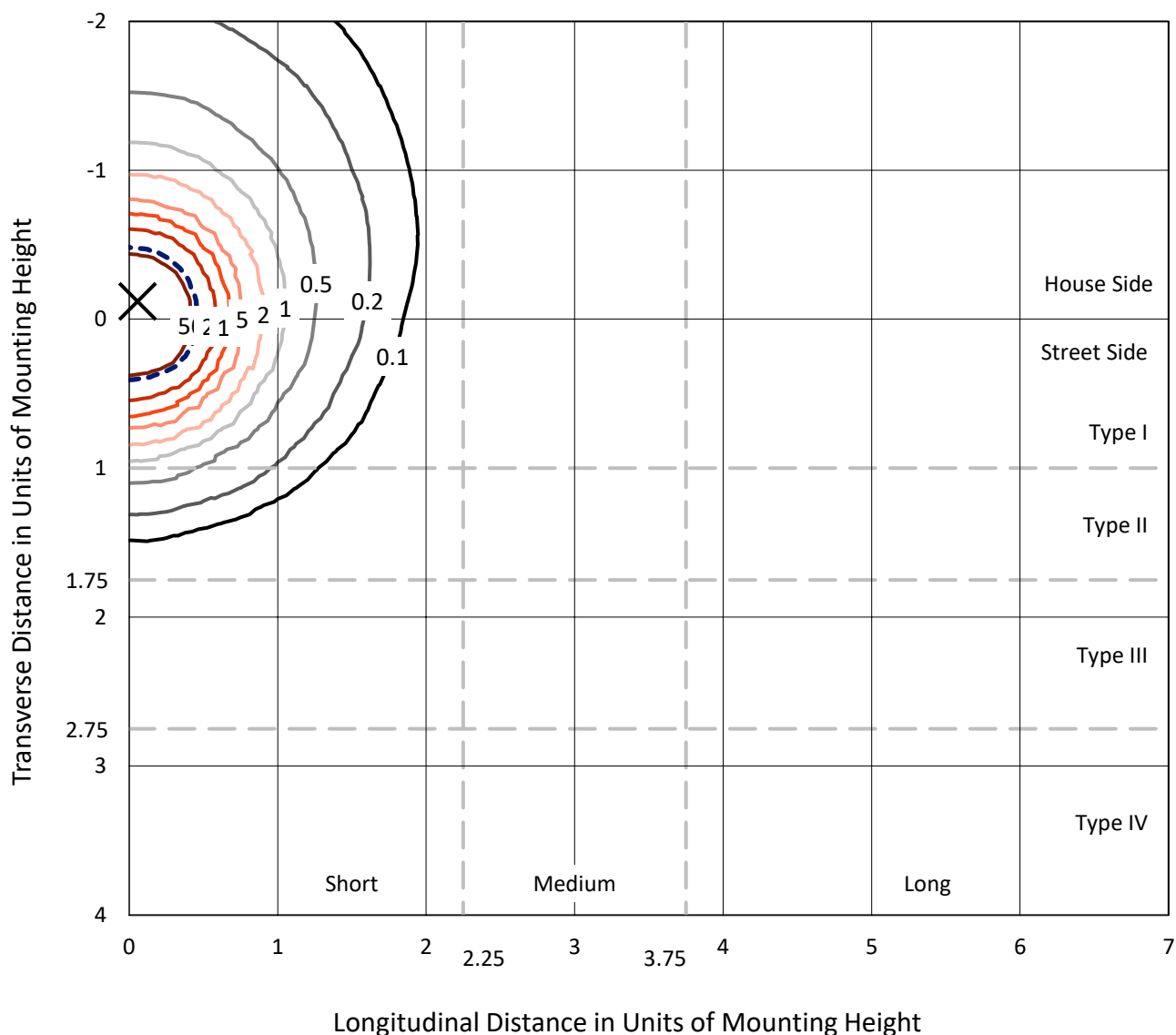
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

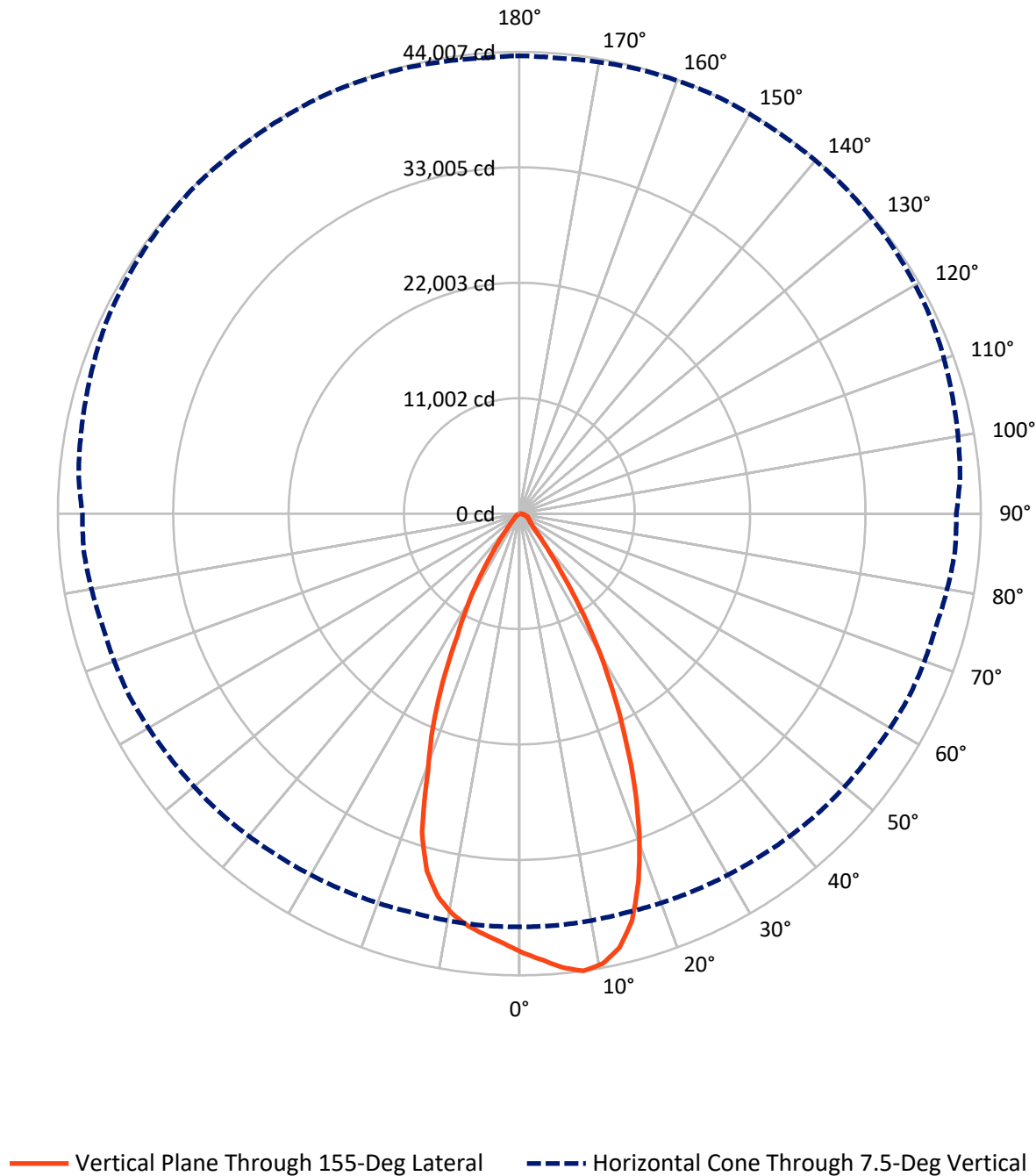


Based on 20 foot mounting height. Maximum calculated value = 106.4 fc

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	16593.8	0.0	16593.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13465.4	0.0	13465.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	30059.3	0.0	30059.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3993.0	13.3
10°-20°	10354.0	34.4
20°-30°	9487.1	31.6
30°-40°	3832.8	12.8
40°-50°	1124.4	3.7
50°-60°	628.7	2.1
60°-70°	381.8	1.3
70°-80°	194.0	0.6
80°-90°	63.5	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°	30059.3	100.0
0°-180°	30059.3	100.0

Coefficient of Utilization



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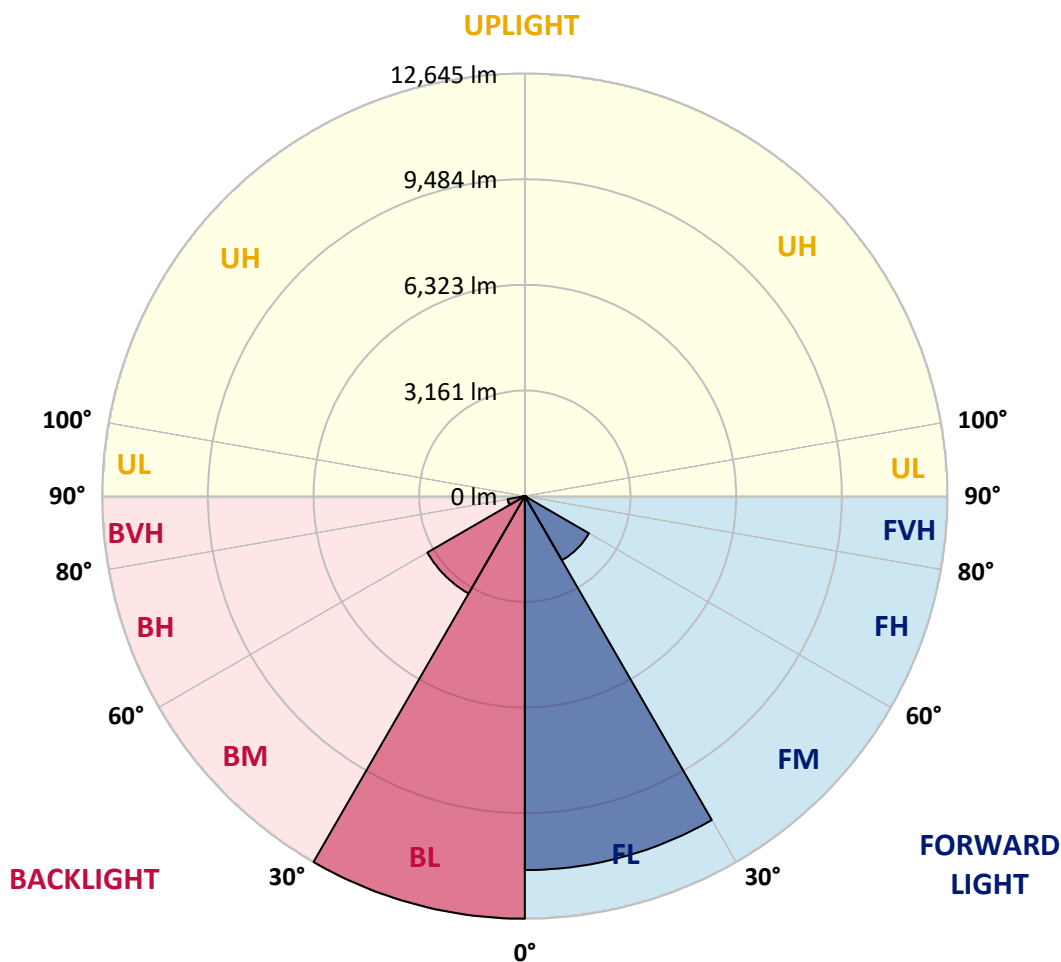
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11188.8	37.2			
FM	(30°-60°)	2217.4	7.4			
FH	(60°-80°)	53.7	0.2			G0/660
FVH	(80°-90°)	5.5	0.0			G0/10
BL	(0°-30°)	12645.3	42.1	B5		
BM	(30°-60°)	3368.4	11.2	B3/5000		
BH	(60°-80°)	522.1	1.7	B2/1000		G2/1000
BVH	(80°-90°)	58.0	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°	41874.8	41874.8	41874.8	41874.8	41874.8	41874.8	41874.8	41874.8	41874.8	41874.8
2.5°	40966.7	41105.4	40828.1	41011.8	41153.9	41493.6	41521.3	41639.1	41680.7	41989.2
5°	40190.3	40297.7	40072.4	40318.5	40519.6	40821.1	41053.4	41379.2	41559.4	41923.4
7.5°	39382.7	39406.9	39361.9	39621.8	39923.4	40339.3	40627.0	41053.4	41164.3	41684.2
10°	38405.2	38228.4	38315.1	38696.4	39147.0	39784.7	39982.3	40408.7	40606.2	41136.6
12.5°	36845.4	36935.6	36828.1	37313.4	37687.7	38412.1	38620.1	39049.9	39427.7	39895.7
15°	34647.9	34595.9	34814.3	35192.1	35597.6	36173.0	36509.2	36977.1	37264.8	37750.1
17.5°	29708.6	29885.4	30786.6	31732.8	32564.7	33237.1	33639.2	34027.4	34235.4	34762.3
20°	25656.6	25434.8	25556.1	26089.9	28457.3	29486.7	29909.6	30003.2	30089.9	30505.8
22.5°	21126.3	21053.5	21459.1	22058.7	22620.3	24994.6	25570.0	25351.6	25531.8	25923.5
25°	15687.9	16055.3	16415.8	17566.6	18294.5	19459.1	20550.9	20648.0	20713.9	20960.0
27.5°	12769.4	12641.1	12634.2	12956.6	14031.1	15001.6	15930.5	16145.4	16107.3	16343.0
30°	10038.0	9996.4	9850.9	9927.1	9819.7	10682.7	11119.5	12003.4	11954.8	11961.8
32.5°	7240.8	7084.9	7025.9	7140.3	7029.4	6949.7	7331.0	8329.2	8311.9	8381.2
35°	4381.2	4360.4	4409.0	4509.5	4287.7	4280.7	4360.4	5299.8	5414.2	5525.1
37.5°	2419.4	2398.6	2436.7	2807.6	2734.8	2669.0	2689.8	3185.4	3514.7	3597.9
40°	1594.4	1591.0	1618.7	1684.6	1809.3	1785.1	1795.5	2017.3	2329.3	2402.1
42.5°	1067.6	1071.0	1088.4	1164.6	1182.0	1306.7	1286.0	1337.9	1629.1	1691.5
45°	852.7	849.2	859.6	824.9	845.7	974.0	987.9	991.3	1240.9	1279.0
47.5°	672.4	672.4	682.8	637.8	627.4	707.1	779.9	790.3	991.3	1043.3
50°	471.4	471.4	523.4	502.6	526.9	551.1	630.8	641.2	811.1	866.5
52.5°	346.6	353.5	360.5	363.9	443.7	440.2	509.5	558.1	613.5	710.6
55°	263.4	270.4	253.0	270.4	329.3	367.4	381.3	450.6	488.7	596.2
57.5°	173.3	190.6	176.8	208.0	221.8	284.2	305.0	370.9	395.1	488.7
60°	24.3	27.7	45.1	145.6	156.0	187.2	235.7	294.6	318.9	398.6
62.5°	3.5	3.5	10.4	24.3	104.0	124.8	176.8	204.5	235.7	298.1
65°	0.0	0.0	3.5	6.9	20.8	72.8	90.1	110.9	162.9	214.9
67.5°	0.0	0.0	3.5	6.9	10.4	24.3	38.1	72.8	93.6	149.0
70°	0.0	0.0	3.5	6.9	10.4	13.9	20.8	27.7	55.5	86.7
72.5°	0.0	0.0	3.5	6.9	10.4	13.9	17.3	20.8	24.3	55.5
75°	0.0	0.0	3.5	6.9	10.4	17.3	20.8	20.8	20.8	24.3
77.5°	0.0	0.0	3.5	6.9	13.9	20.8	24.3	20.8	17.3	17.3
80°	0.0	0.0	3.5	10.4	17.3	24.3	27.7	20.8	13.9	10.4
82.5°	0.0	0.0	3.5	10.4	17.3	24.3	27.7	24.3	13.9	10.4
85°	0.0	0.0	3.5	10.4	13.9	17.3	27.7	24.3	13.9	6.9
87.5°	0.0	0.0	0.0	3.5	3.5	6.9	13.9	10.4	6.9	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°
41874.8	0°	41874.8	41874.8	41874.8	41874.8	41874.8	41874.8	41874.8	41874.8	41874.8
41982.3	2.5°	42294.3	42450.2	42724.1	42800.3	43036.0	42765.7	42616.6	42630.5	42308.1
41878.3	5°	42294.3	42651.3	43129.6	43358.4	43531.7	43517.8	43479.7	43382.6	43146.9
41670.3	7.5°	42183.3	42765.7	43424.2	43729.3	43937.2	43919.9	44006.5	43850.6	43562.9
41299.5	10°	41826.3	42332.4	43143.5	43393.0	43729.3	43736.2	43628.7	43659.9	43146.9
39944.2	12.5°	40703.3	41098.4	41809.0	42093.2	42502.2	42568.1	42450.2	42405.2	41919.9
37722.4	15°	38530.0	38758.8	39472.8	39757.0	40162.6	40107.1	40224.9	40176.4	39750.1
34720.7	17.5°	35351.5	35424.3	36173.0	36412.2	36793.4	36942.5	36765.7	36991.0	36623.6
30578.6	20°	30793.5	31185.2	32027.4	32394.9	32616.7	32883.6	32651.4	32904.4	32474.6
25552.6	22.5°	26169.6	26401.8	27164.4	27694.7	28107.2	28159.2	28072.5	28249.3	27670.5
21122.9	25°	21119.4	21504.1	22107.3	22800.5	23206.0	23455.6	23230.3	23344.7	23251.1
16381.1	27.5°	16658.4	17001.6	17455.7	17972.1	18582.2	18908.0	18727.7	18921.8	18464.3
12214.8	30°	12225.2	12398.5	12911.5	13459.2	14128.1	14523.3	14540.6	14738.2	14467.8
8558.0	32.5°	8620.4	8772.9	9088.3	9452.3	10090.0	10530.2	10460.9	10488.6	10322.3
5577.1	35°	5604.8	5809.3	6034.6	6207.9	6592.7	7077.9	7039.8	7005.1	6890.8
3667.2	37.5°	3746.9	3826.7	3951.4	4107.4	4357.0	4662.0	4762.5	4637.7	4589.2
2474.8	40°	2533.8	2672.4	2755.6	2873.5	2991.3	3247.8	3317.1	3292.9	3244.3
1733.1	42.5°	1798.9	1906.4	2010.4	2124.8	2187.2	2346.6	2481.8	2443.7	2422.9
1317.1	45°	1365.7	1462.7	1584.0	1670.7	1733.1	1826.7	1954.9	1968.8	1937.6
1057.2	47.5°	1095.3	1182.0	1279.0	1386.5	1459.3	1518.2	1629.1	1670.7	1649.9
890.8	50°	928.9	994.8	1088.4	1195.8	1275.6	1327.5	1424.6	1469.7	1455.8
745.2	52.5°	790.3	870.0	956.7	1046.8	1143.8	1195.8	1286.0	1351.8	1341.4
617.0	55°	655.1	759.1	849.2	939.3	1050.3	1102.2	1182.0	1268.6	1251.3
523.4	57.5°	571.9	658.6	752.2	838.8	956.7	1026.0	1098.8	1188.9	1185.4
429.8	60°	478.3	565.0	669.0	741.8	866.5	963.6	1029.5	1123.0	1130.0
325.8	62.5°	381.3	488.7	568.5	669.0	783.4	897.7	960.1	1053.7	1088.4
249.6	65°	284.2	402.1	492.2	592.7	700.2	828.4	883.9	977.5	1012.1
180.2	67.5°	211.4	301.6	415.9	502.6	623.9	734.8	800.7	887.3	911.6
107.5	70°	159.4	232.2	346.6	422.9	547.7	637.8	703.6	769.5	800.7
72.8	72.5°	93.6	173.3	273.8	363.9	471.4	547.7	596.2	648.2	669.0
34.7	75°	65.9	131.7	214.9	301.6	381.3	443.7	488.7	533.8	554.6
17.3	77.5°	34.7	97.1	169.8	242.6	298.1	350.1	395.1	429.8	443.7
13.9	80°	20.8	69.3	138.6	190.6	228.8	273.8	318.9	343.2	339.7
10.4	82.5°	13.9	55.5	100.5	138.6	166.4	201.0	232.2	249.6	249.6
6.9	85°	10.4	38.1	69.3	107.5	110.9	138.6	145.6	162.9	166.4
6.9	87.5°	6.9	24.3	38.1	62.4	58.9	72.8	76.3	86.7	93.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
41874.8
42048.2
43223.2
43628.7
42997.9
41809.0
39885.3
36533.5
32439.9
27590.7
23192.2
18582.2
14516.3
10415.9
6790.2
4578.8
3251.3
2405.5
1934.1
1639.5
1452.3
1334.5
1251.3
1182.0
1130.0
1084.9
1008.7
911.6
793.8
662.0
547.7
440.2
336.2
246.1
162.9
90.1
0.0

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