

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: P637685

Luminaire Tested: **IFLD-L-SA7A-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637685
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-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: 30075.2 lumens
Efficiency: N/A
Efficacy: 138.2 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): 217.6
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



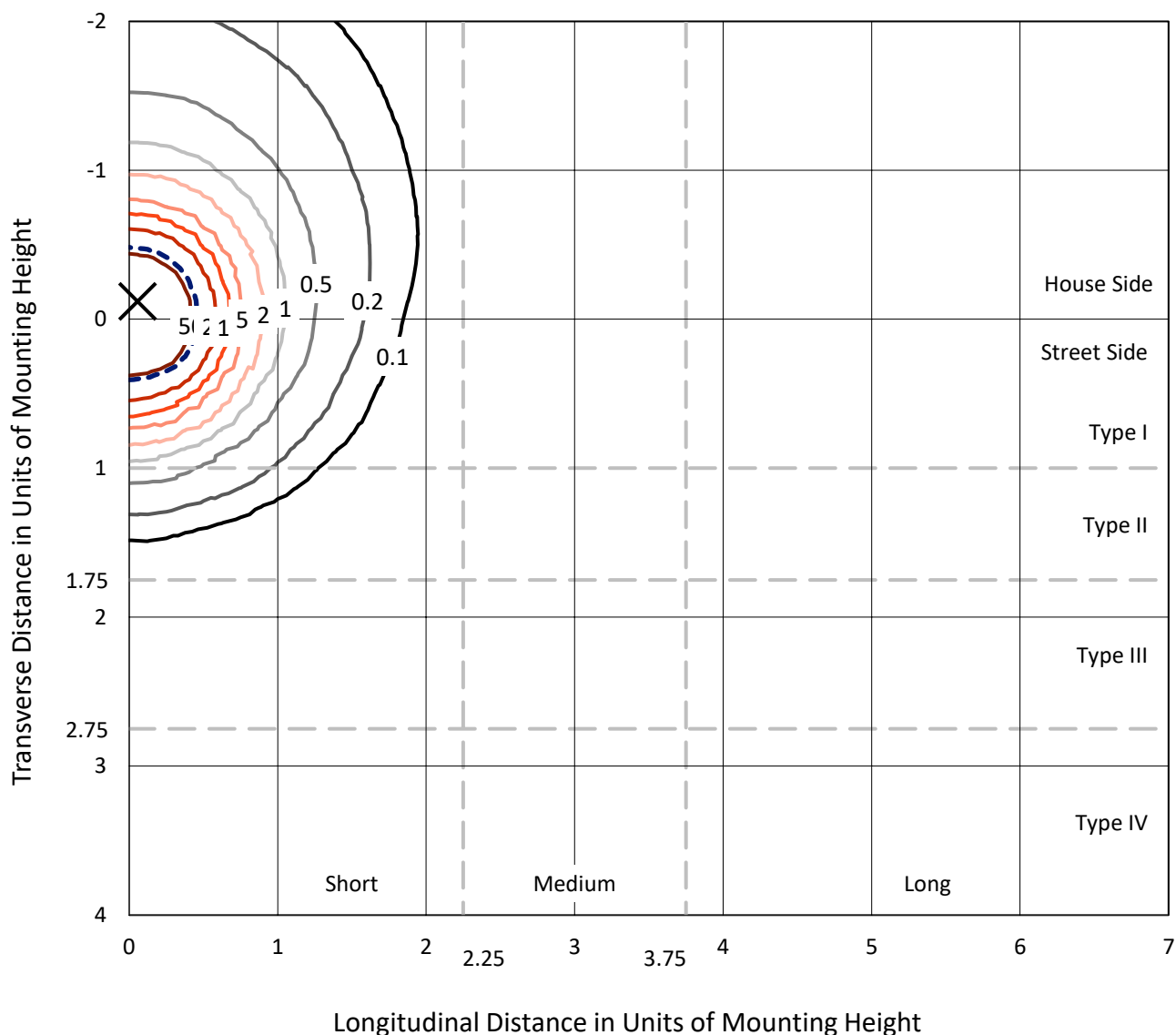
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

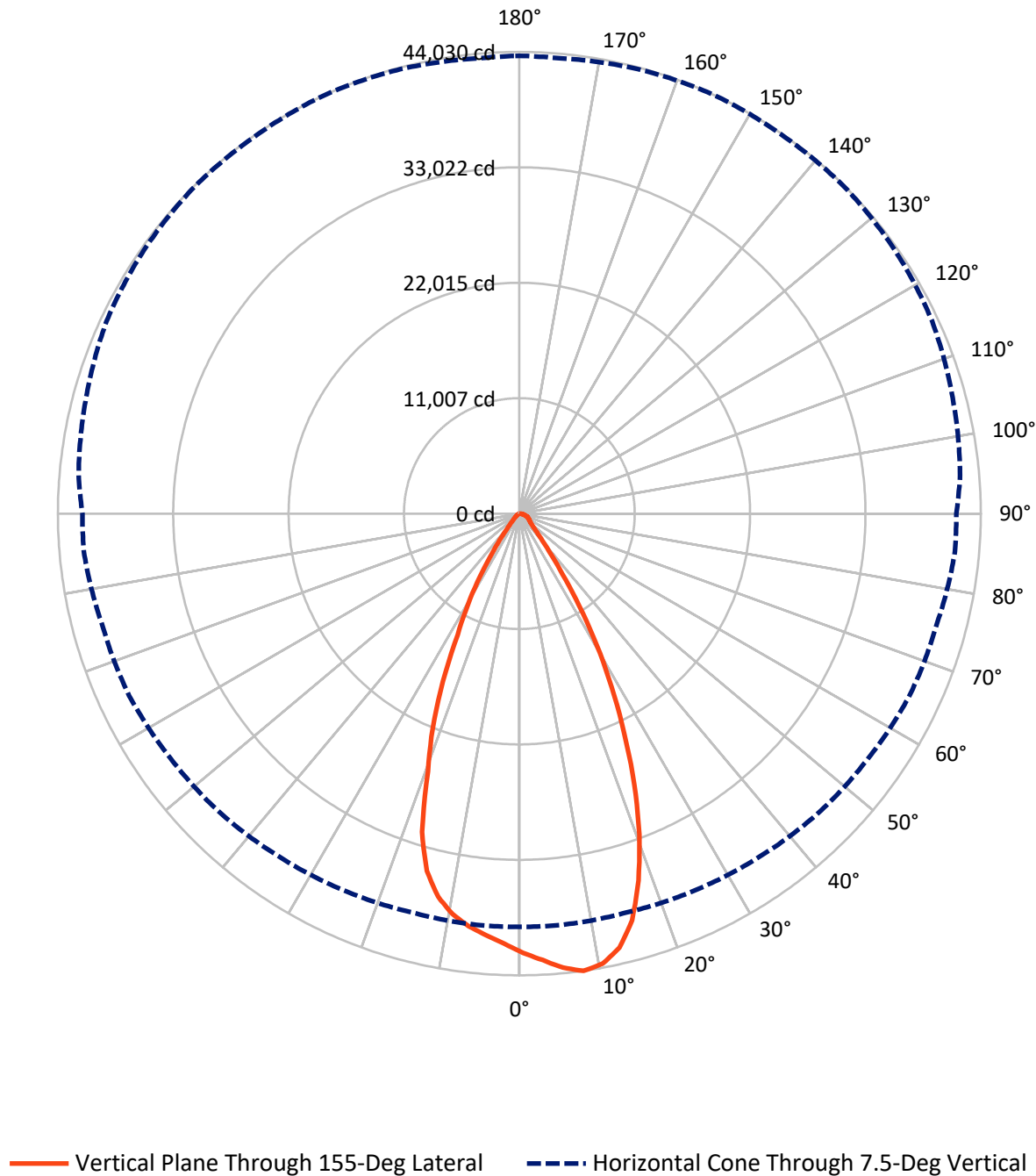


Based on 20 foot mounting height. Maximum calculated value = 106.5 fc

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	16602.6	0.0	16602.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13472.6	0.0	13472.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	30075.2	0.0	30075.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3995.2	13.3
10°-20°	10359.5	34.4
20°-30°	9492.2	31.6
30°-40°	3834.8	12.8
40°-50°	1125.0	3.7
50°-60°	629.0	2.1
60°-70°	382.0	1.3
70°-80°	194.1	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°	30075.2	100.0
0°-180°	30075.2	100.0

Coefficient of Utilization



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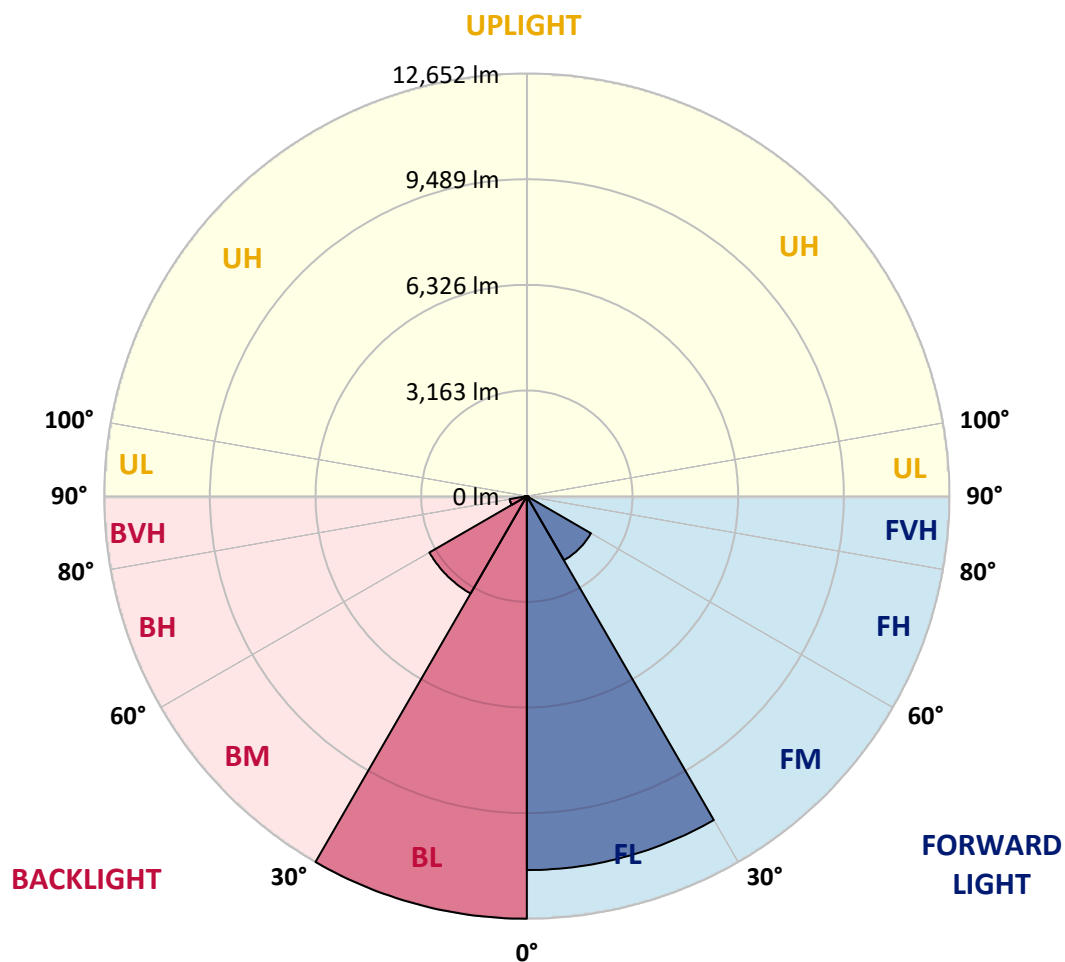
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11194.7	37.2			
FM	(30°-60°)	2218.6	7.4			
FH	(60°-80°)	53.7	0.2			G0/660
FVH	(80°-90°)	5.5	0.0			G0/10
BL	(0°-30°)	12652.0	42.1	B5		
BM	(30°-60°)	3370.2	11.2	B3/5000		
BH	(60°-80°)	522.4	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°	41897.1	41897.1	41897.1	41897.1	41897.1	41897.1	41897.1	41897.1	41897.1	41897.1
2.5°	40988.4	41127.2	40849.7	41033.5	41175.7	41515.6	41543.3	41661.2	41702.9	42011.5
5°	40211.6	40319.1	40093.7	40339.9	40541.1	40842.8	41075.1	41401.1	41581.5	41945.6
7.5°	39403.6	39427.8	39382.8	39642.9	39944.6	40360.7	40648.6	41075.1	41186.1	41706.3
10°	38425.6	38248.7	38335.4	38716.9	39167.7	39805.8	40003.5	40430.1	40627.8	41158.4
12.5°	36865.0	36955.1	36847.6	37333.2	37707.7	38432.5	38640.6	39070.6	39448.6	39916.8
15°	34666.3	34614.2	34832.7	35210.7	35616.5	36192.2	36528.6	36996.8	37284.6	37770.1
17.5°	29724.3	29901.2	30802.9	31749.7	32582.0	33254.8	33657.1	34045.5	34253.6	34780.7
20°	25670.2	25448.3	25569.7	26103.7	28472.4	29502.4	29925.5	30019.1	30105.8	30522.0
22.5°	21137.5	21064.7	21470.5	22070.4	22632.3	25007.8	25583.5	25365.0	25545.4	25937.3
25°	15696.2	16063.8	16424.5	17575.9	18304.2	19469.4	20561.8	20659.0	20724.8	20971.1
27.5°	12776.2	12647.8	12640.9	12963.4	14038.5	15009.6	15939.0	16154.0	16115.9	16351.7
30°	10043.4	10001.7	9856.1	9932.4	9824.9	10688.4	11125.4	12009.7	11961.2	11968.1
32.5°	7244.7	7088.6	7029.7	7144.1	7033.1	6953.4	7334.8	8333.6	8316.3	8385.7
35°	4383.6	4362.8	4411.3	4511.9	4289.9	4283.0	4362.8	5302.6	5417.0	5528.0
37.5°	2420.7	2399.9	2438.0	2809.1	2736.3	2670.4	2691.2	3187.1	3516.6	3599.8
40°	1595.3	1591.8	1619.6	1685.5	1810.3	1786.0	1796.4	2018.4	2330.5	2403.3
42.5°	1068.1	1071.6	1089.0	1165.3	1182.6	1307.4	1286.6	1338.7	1630.0	1692.4
45°	853.1	849.7	860.1	825.4	846.2	974.5	988.4	991.9	1241.5	1279.7
47.5°	672.8	672.8	683.2	638.1	627.7	707.5	780.3	790.7	991.9	1043.9
50°	471.6	471.6	523.7	502.9	527.1	551.4	631.2	641.6	811.5	867.0
52.5°	346.8	353.7	360.7	364.1	443.9	440.4	509.8	558.4	613.8	710.9
55°	263.6	270.5	253.2	270.5	329.5	367.6	381.5	450.8	489.0	596.5
57.5°	173.4	190.7	176.9	208.1	222.0	284.4	305.2	371.1	395.4	489.0
60°	24.3	27.7	45.1	145.7	156.1	187.3	235.8	294.8	319.1	398.8
62.5°	3.5	3.5	10.4	24.3	104.0	124.8	176.9	204.6	235.8	298.2
65°	0.0	0.0	3.5	6.9	20.8	72.8	90.2	111.0	163.0	215.0
67.5°	0.0	0.0	3.5	6.9	10.4	24.3	38.1	72.8	93.6	149.1
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°
41897.1	0°	41897.1	41897.1	41897.1	41897.1	41897.1	41897.1	41897.1	41897.1	41897.1
42004.6	2.5°	42316.7	42472.8	42746.7	42823.0	43058.8	42788.3	42639.2	42653.1	42330.6
41900.5	5°	42316.7	42673.9	43152.5	43381.4	43554.8	43540.9	43502.8	43405.6	43169.8
41692.4	7.5°	42205.7	42788.3	43447.3	43752.4	43960.5	43943.2	44029.9	43873.8	43586.0
41321.4	10°	41848.5	42354.8	43166.4	43416.1	43752.4	43759.4	43651.9	43683.1	43169.8
39965.4	12.5°	40724.9	41120.2	41831.2	42115.5	42524.8	42590.7	42472.8	42427.7	41942.1
37742.4	15°	38550.4	38779.3	39493.7	39778.1	40183.9	40128.4	40246.3	40197.7	39771.2
34739.1	17.5°	35370.3	35443.1	36192.2	36431.5	36813.0	36962.1	36785.2	37010.6	36643.0
30594.8	20°	30809.8	31201.7	32044.4	32412.0	32634.0	32901.0	32668.7	32921.8	32491.8
25566.2	22.5°	26183.5	26415.9	27178.8	27709.4	28122.1	28174.1	28087.4	28264.3	27685.1
21134.1	25°	21130.6	21515.6	22119.0	22812.6	23218.3	23468.0	23242.6	23357.1	23263.4
16389.8	27.5°	16667.3	17010.6	17464.9	17981.6	18592.0	18918.0	18737.7	18931.9	18474.1
12221.3	30°	12231.7	12405.1	12918.3	13466.3	14135.6	14531.0	14548.3	14746.0	14475.5
8562.5	32.5°	8624.9	8777.5	9093.1	9457.3	10095.4	10535.8	10466.5	10494.2	10327.7
5580.0	35°	5607.8	5812.4	6037.8	6211.2	6596.2	7081.7	7043.5	7008.9	6894.4
3669.2	37.5°	3748.9	3828.7	3953.5	4109.6	4359.3	4664.5	4765.0	4640.2	4591.6
2476.2	40°	2535.1	2673.8	2757.1	2875.0	2992.9	3249.5	3318.9	3294.6	3246.1
1734.0	42.5°	1799.9	1907.4	2011.4	2125.9	2188.3	2347.8	2483.1	2444.9	2424.1
1317.8	45°	1366.4	1463.5	1584.9	1671.6	1734.0	1827.6	1956.0	1969.8	1938.6
1057.7	47.5°	1095.9	1182.6	1279.7	1387.2	1460.0	1519.0	1630.0	1671.6	1650.8
891.3	50°	929.4	995.3	1089.0	1196.5	1276.2	1328.2	1425.4	1470.4	1456.6
745.6	52.5°	790.7	870.5	957.2	1047.3	1144.4	1196.5	1286.6	1352.5	1342.1
617.3	55°	655.5	759.5	849.7	939.8	1050.8	1102.8	1182.6	1269.3	1252.0
523.7	57.5°	572.2	658.9	752.6	839.3	957.2	1026.5	1099.4	1189.5	1186.1
430.0	60°	478.6	565.3	669.3	742.2	867.0	964.1	1030.0	1123.6	1130.6
326.0	62.5°	381.5	489.0	568.8	669.3	783.8	898.2	960.6	1054.3	1089.0
249.7	65°	284.4	402.3	492.5	593.0	700.5	828.9	884.3	978.0	1012.7
180.3	67.5°	211.5	301.7	416.2	502.9	624.2	735.2	801.1	887.8	912.1
107.5	70°	159.5	232.4	346.8	423.1	547.9	638.1	704.0	769.9	801.1
72.8	72.5°	93.6	173.4	274.0	364.1	471.6	547.9	596.5	648.5	669.3
34.7	75°	65.9	131.8	215.0	301.7	381.5	443.9	489.0	534.1	554.9
17.3	77.5°	34.7	97.1	169.9	242.8	298.2	350.3	395.4	430.0	443.9
13.9	80°	20.8	69.4	138.7	190.7	228.9	274.0	319.1	343.3	339.9
10.4	82.5°	13.9	55.5	100.6	138.7	166.5	201.1	232.4	249.7	249.7
6.9	85°	10.4	38.1	69.4	107.5	111.0	138.7	145.7	163.0	166.5
6.9	87.5°	6.9	24.3	38.1	62.4	59.0	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°
41897.1
42070.5
43246.1
43651.9
43020.7
41831.2
39906.4
36552.9
32457.1
27605.4
23204.5
18592.0
14524.0
10421.4
6793.8
4581.2
3253.0
2406.8
1935.2
1640.4
1453.1
1335.2
1252.0
1182.6
1130.6
1085.5
1009.2
912.1
794.2
662.4
547.9
440.4
336.4
246.2
163.0
90.2
0.0

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