

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: P636526

Luminaire Tested: **IFLD-L-SA7B-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636526
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21293.9 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 281
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



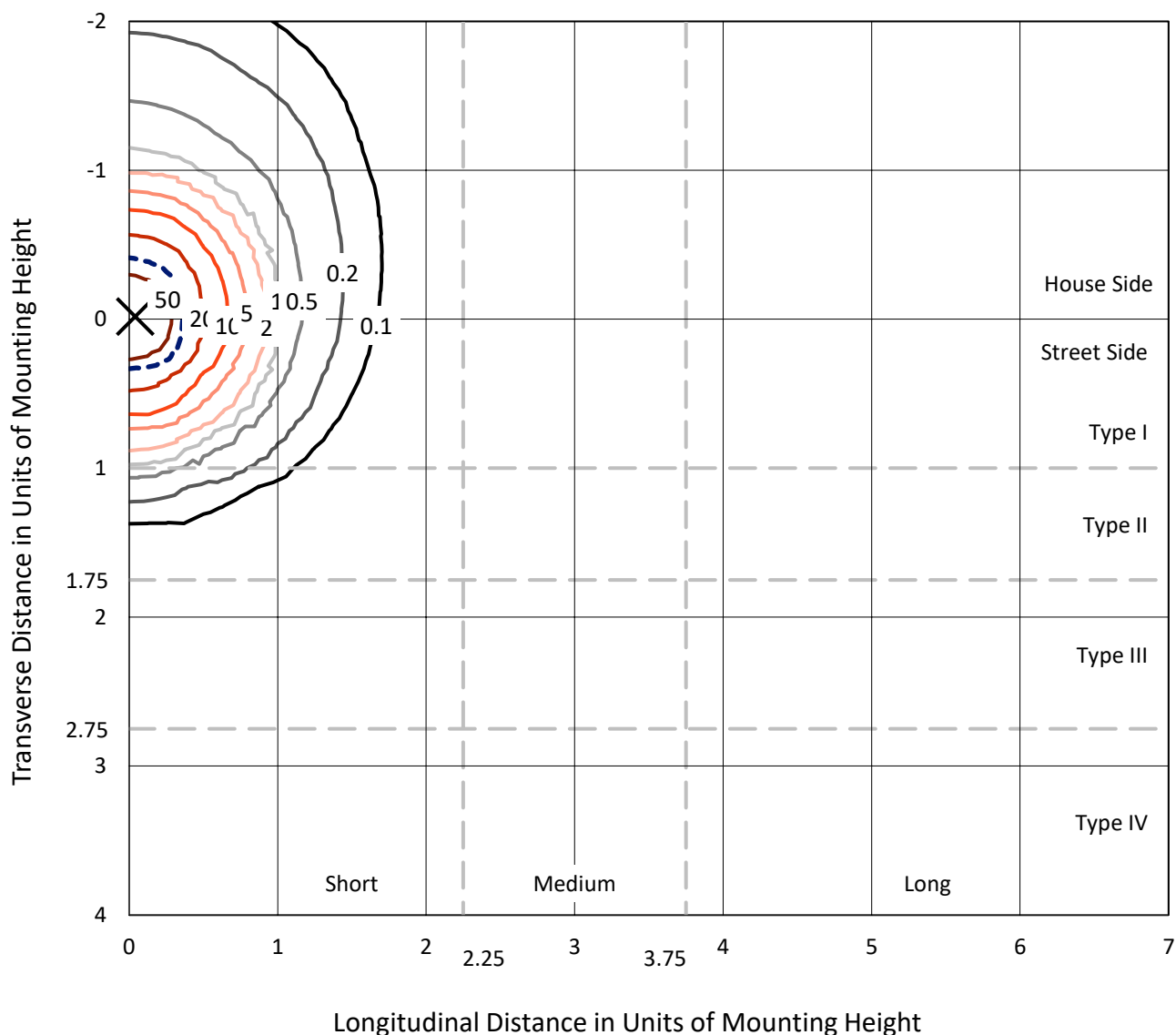
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



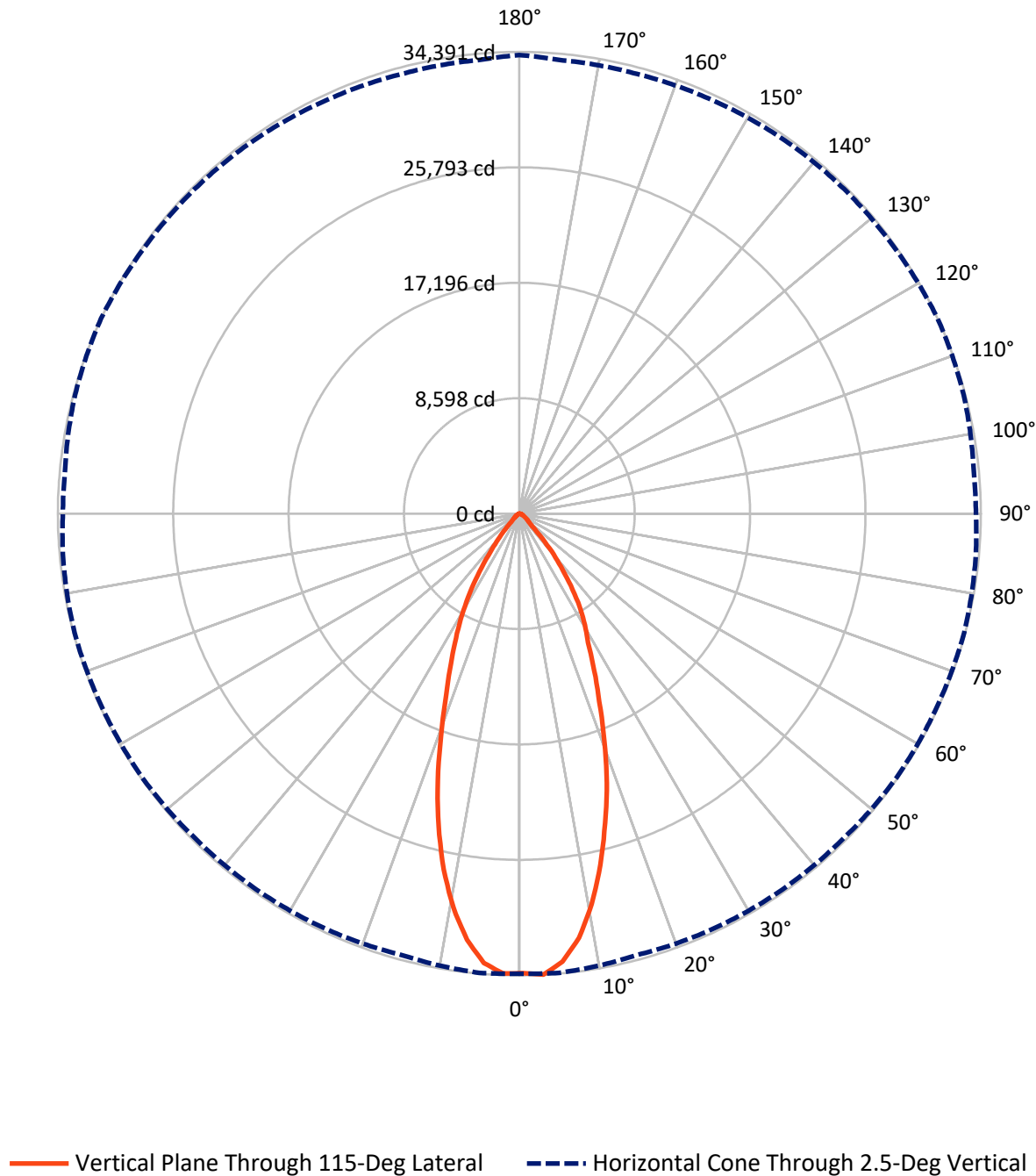
Based on 20 foot mounting height. Maximum calculated value = 85.6 fc

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	11751.7	0.0	11751.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9542.2	0.0	9542.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	21293.9	0.0	21293.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3070.2	14.4
10°-20°	6488.7	30.5
20°-30°	5856.5	27.5
30°-40°	3875.6	18.2
40°-50°	1161.0	5.5
50°-60°	465.7	2.2
60°-70°	241.2	1.1
70°-80°	104.7	0.5
80°-90°	30.5	0.1
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°	21293.9	100.0
0°-180°	21293.9	100.0

Coefficient of Utilization



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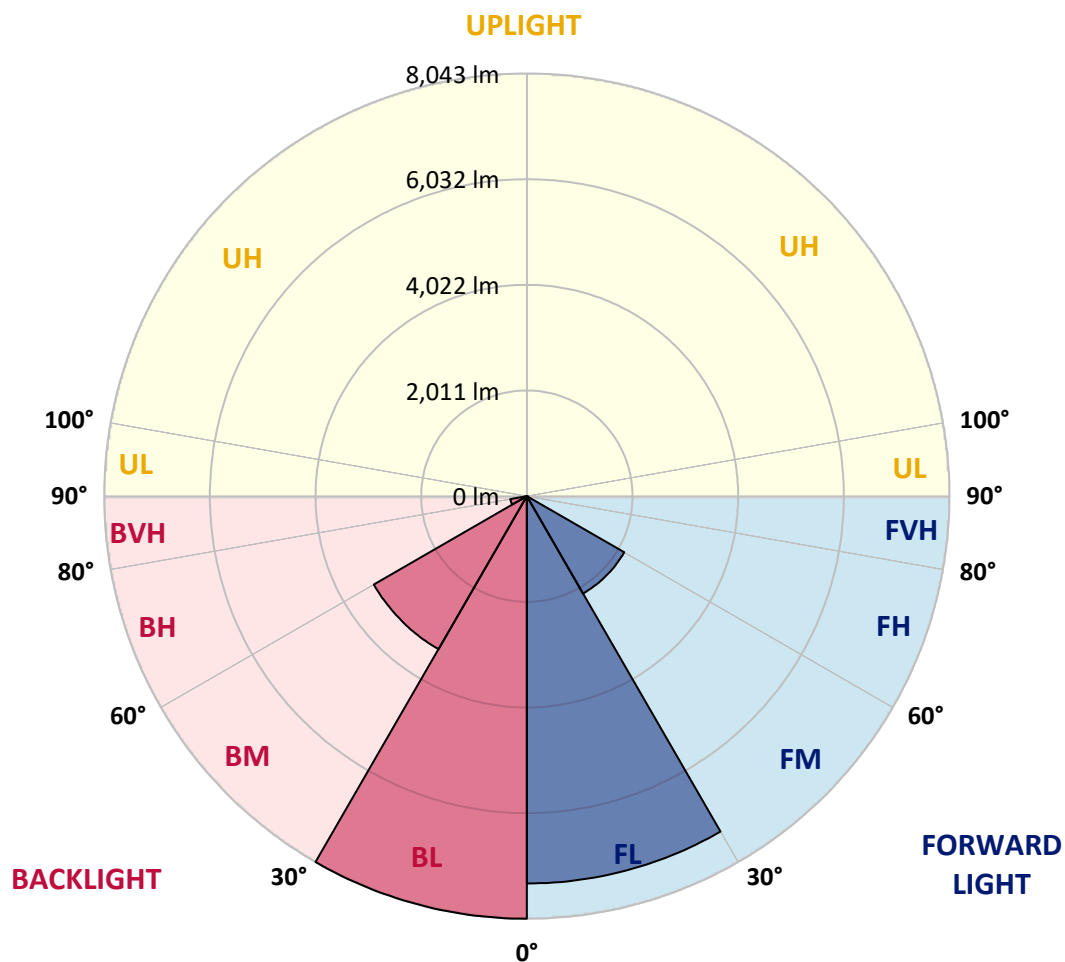
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7372.1	34.6			
FM	(30°-60°)	2139.2	10.0			
FH	(60°-80°)	26.5	0.1			G0/660
FVH	(80°-90°)	4.4	0.0			G0/10
BL	(0°-30°)	8043.2	37.8	B5		
BM	(30°-60°)	3363.1	15.8	B3/5000		
BH	(60°-80°)	319.4	1.5	B1/500		G1/500
BVH	(80°-90°)	26.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	34229.9	34229.9	34229.9	34229.9	34229.9	34229.9	34229.9	34229.9	34229.9	34229.9
2.5°	34273.5	34334.5	34029.6	34134.1	34177.7	34190.7	34299.6	34282.2	34312.7	34151.5
5°	33820.6	33703.0	33476.5	33480.9	33467.8	33345.9	33594.1	33576.7	33524.4	33332.8
7.5°	32278.9	32448.8	32022.0	32013.3	32004.6	31856.5	32183.1	31982.8	32026.3	31752.0
10°	30023.0	30044.8	29665.9	29631.1	29661.6	29470.0	29848.8	29770.5	29853.2	29565.8
12.5°	27257.7	27379.6	26961.5	26900.5	27022.5	26752.5	27057.3	27096.5	26974.6	26935.4
15°	21378.5	21700.7	22493.3	23704.0	24017.6	23791.1	24035.0	24030.6	24082.9	23786.8
17.5°	16287.5	16318.0	16130.7	16710.0	20063.3	21152.0	21204.3	20790.5	20477.0	20368.1
20°	14218.9	14323.4	14153.6	14201.5	14737.2	17929.3	18051.3	17428.5	16892.9	16849.3
22.5°	12572.7	12638.1	12516.1	12555.3	12581.5	12956.0	15076.8	14528.1	14271.2	14075.2
25°	11179.2	11179.2	11113.8	11126.9	11100.8	10547.7	11636.4	12263.5	12115.5	12045.8
27.5°	9907.5	9924.9	9842.2	9890.1	9572.2	8679.4	8548.8	10399.6	10242.8	10116.6
30°	8701.2	8757.8	8679.4	8705.6	8013.1	7281.5	6907.0	8675.1	8871.0	8836.2
32.5°	6549.8	6806.8	7438.3	7464.4	6523.7	5961.9	5796.4	6963.6	7708.3	7642.9
35°	4058.8	4045.8	4071.9	5326.1	5003.8	4620.6	4681.6	5260.8	6101.3	6070.8
37.5°	3096.4	3092.0	3139.9	3013.6	3279.3	3505.7	3553.6	3553.6	4455.1	4459.5
40°	2347.3	2329.9	2325.5	2125.2	1781.2	2630.4	2552.0	2486.7	3096.4	3161.7
42.5°	1498.1	1550.4	1511.2	1293.4	1162.8	1437.1	1602.6	1550.4	1911.8	1959.7
45°	836.2	836.2	801.3	679.4	675.0	727.3	914.5	853.6	979.9	1045.2
47.5°	405.0	396.3	435.5	535.7	557.4	540.0	653.2	679.4	740.3	801.3
50°	326.6	326.6	309.2	278.7	461.6	444.2	483.4	518.2	553.1	605.3
52.5°	274.4	274.4	252.6	235.2	265.7	339.7	344.0	409.4	405.0	479.0
55°	139.4	143.7	204.7	204.7	178.6	278.7	283.1	331.0	339.7	400.7
57.5°	13.1	17.4	26.1	126.3	139.4	152.4	213.4	243.9	283.1	309.2
60°	4.4	4.4	8.7	17.4	82.7	104.5	135.0	161.1	196.0	256.9
62.5°	0.0	0.0	4.4	8.7	17.4	65.3	74.0	82.7	117.6	161.1
65°	0.0	0.0	4.4	4.4	8.7	21.8	30.5	52.3	74.0	100.2
67.5°	0.0	0.0	4.4	4.4	8.7	13.1	17.4	26.1	34.8	65.3
70°	0.0	0.0	4.4	4.4	8.7	13.1	13.1	17.4	21.8	30.5
72.5°	0.0	0.0	4.4	4.4	8.7	17.4	13.1	13.1	17.4	21.8
75°	0.0	0.0	4.4	4.4	8.7	13.1	13.1	13.1	13.1	13.1
77.5°	0.0	0.0	4.4	4.4	8.7	13.1	13.1	13.1	8.7	8.7
80°	0.0	0.0	4.4	4.4	8.7	13.1	17.4	17.4	8.7	8.7
82.5°	0.0	0.0	4.4	8.7	8.7	21.8	26.1	21.8	8.7	4.4
85°	0.0	0.0	4.4	4.4	13.1	21.8	21.8	13.1	8.7	4.4
87.5°	0.0	0.0	0.0	4.4	4.4	8.7	13.1	13.1	4.4	4.4
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°
34229.9	0°	34229.9	34229.9	34229.9	34229.9	34229.9	34229.9	34229.9	34229.9	34229.9
34020.9	2.5°	34003.5	34269.1	34391.1	34264.8	34203.8	34116.7	33990.4	33903.3	33920.7
33228.3	5°	33154.3	33433.0	33528.8	33419.9	33328.5	33280.6	33258.8	33302.3	33415.6
31634.4	7.5°	31625.7	31804.2	31908.7	31856.5	31730.2	31873.9	31913.1	31887.0	32052.5
29478.7	10°	29487.4	29683.4	29587.6	29609.3	29461.3	29535.3	29513.5	29609.3	29774.8
26904.9	12.5°	26730.7	26918.0	26843.9	26830.9	26674.1	26813.4	26726.3	26830.9	27048.6
23664.8	15°	23834.7	23952.2	23904.3	23830.3	23690.9	23738.8	24008.9	23991.4	24087.2
20302.8	17.5°	20215.7	20781.8	21091.0	21156.4	21043.1	21138.9	21330.6	21282.7	21500.4
16757.9	20°	16727.4	17297.9	18060.0	18678.4	18691.5	18704.5	18826.5	18856.9	19044.2
14079.6	22.5°	14018.6	14423.6	15242.3	16061.1	16627.2	16744.8	16731.7	16775.3	16827.5
11950.0	25°	11919.5	12215.6	12964.7	13530.8	14523.8	14854.7	14950.6	14854.7	14885.2
10073.0	27.5°	10186.2	10639.2	10887.4	11492.7	12463.9	13230.3	13199.9	13143.2	13152.0
8766.5	30°	8762.2	9249.9	9615.7	9798.6	10530.3	11636.4	11749.7	11588.5	11592.9
7612.5	32.5°	7564.6	7717.0	8257.0	8405.1	8875.4	9881.4	10269.0	10147.0	10125.3
6088.2	35°	6266.8	6349.5	6597.8	6889.5	7168.3	7930.4	8570.5	8457.3	8513.9
4476.9	37.5°	4459.5	4799.2	5038.7	5278.2	5478.5	5957.6	6728.4	6623.9	6680.5
3170.4	40°	3144.3	3296.7	3710.4	3814.9	4111.1	4333.2	4986.4	4951.6	5021.3
1968.4	42.5°	1933.6	2042.5	2251.5	2351.7	2552.0	2678.3	3061.5	3105.1	3196.5
1088.7	45°	1097.4	1145.4	1289.1	1397.9	1546.0	1598.3	1733.3	1794.2	1846.5
844.9	47.5°	836.2	888.4	984.2	1080.0	1202.0	1245.5	1341.3	1432.8	1480.7
653.2	50°	683.7	731.6	831.8	910.2	1032.1	1071.3	1149.7	1249.9	1310.8
496.5	52.5°	518.2	587.9	709.9	792.6	918.9	966.8	1040.8	1141.0	1197.6
409.4	55°	426.8	479.0	587.9	701.1	818.7	884.1	932.0	1053.9	1114.9
335.3	57.5°	365.8	405.0	474.7	609.7	709.9	805.7	844.9	958.1	1019.1
265.7	60°	278.7	339.7	400.7	505.2	618.4	718.6	762.1	862.3	910.2
191.6	62.5°	230.8	270.0	348.4	405.0	531.3	635.8	679.4	770.8	805.7
126.3	65°	161.1	217.7	291.8	326.6	444.2	544.4	605.3	675.0	709.9
74.0	67.5°	95.8	161.1	230.8	278.7	361.5	461.6	526.9	592.3	622.8
43.5	70°	61.0	126.3	182.9	235.2	283.1	378.9	457.3	513.9	500.8
26.1	72.5°	34.8	78.4	135.0	191.6	235.2	317.9	391.9	435.5	309.2
17.4	75°	21.8	56.6	113.2	156.8	191.6	252.6	322.3	331.0	191.6
8.7	77.5°	17.4	43.5	87.1	126.3	130.6	187.3	226.5	256.9	143.7
8.7	80°	8.7	34.8	74.0	104.5	82.7	130.6	174.2	200.3	113.2
4.4	82.5°	8.7	21.8	56.6	74.0	61.0	100.2	126.3	143.7	95.8
4.4	85°	4.4	17.4	30.5	43.5	43.5	65.3	56.6	69.7	61.0
4.4	87.5°	4.4	8.7	17.4	21.8	17.4	26.1	30.5	30.5	26.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
34229.9
34155.9
33650.7
32217.9
29840.1
27087.8
24109.0
21465.6
19005.0
16731.7
14837.3
13165.0
11597.2
10177.5
8566.2
6728.4
5047.4
3301.1
1842.1
1502.5
1337.0
1236.8
1132.3
1045.2
918.9
810.0
709.9
618.4
461.6
274.4
178.6
143.7
117.6
104.5
61.0
21.8
0.0

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