

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: P637749

Luminaire Tested: **IFLD-L-SA8B-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637749
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5
distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28102.8 lumens
Efficiency: N/A
Efficacy: 87.8 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): 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

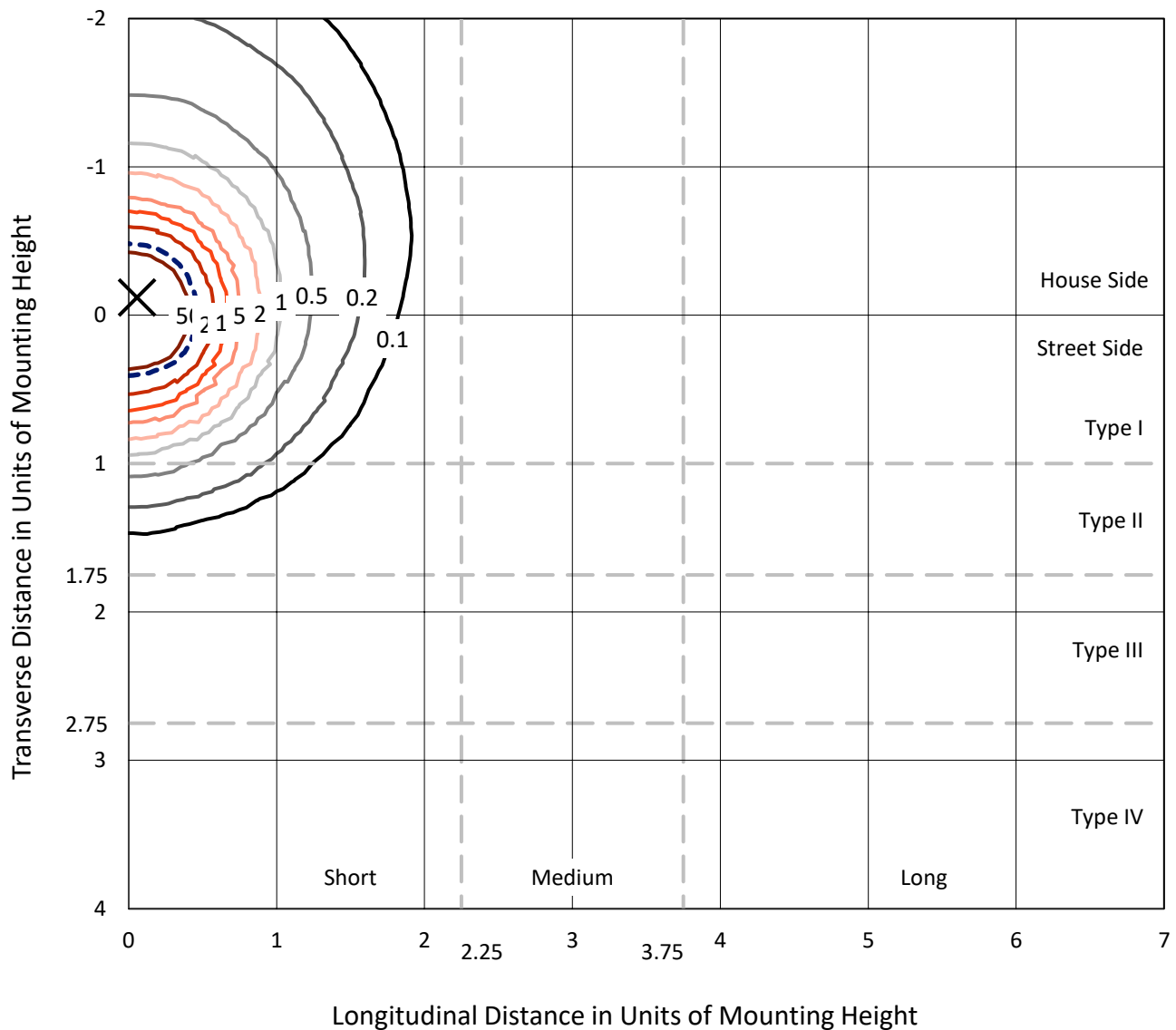


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



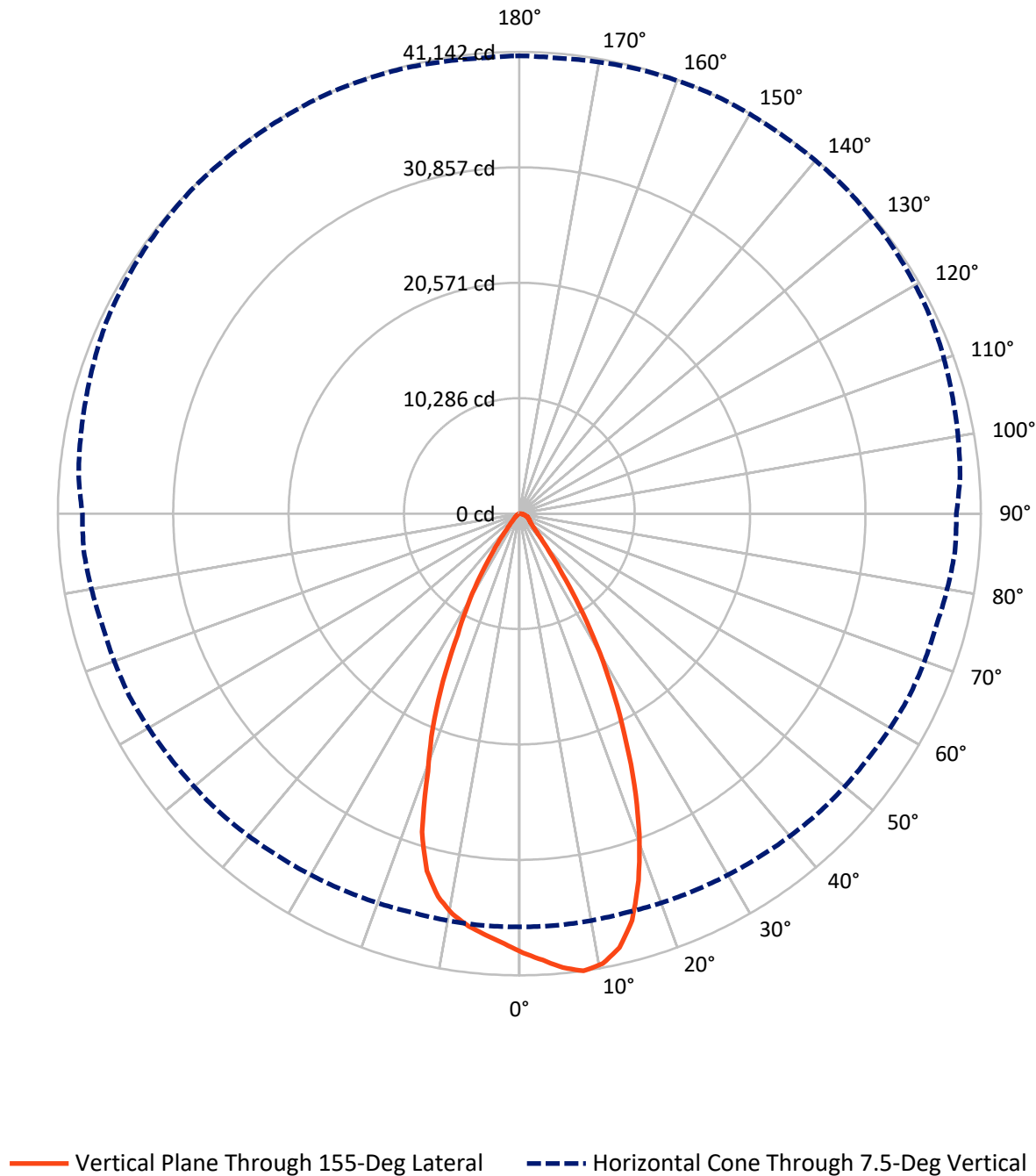
Based on 20 foot mounting height. Maximum calculated value = 99.5 fc

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	15513.8	0.0	15513.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	12589.0	0.0	12589.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	28102.8	0.0	28102.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3733.2	13.3
10°-20°	9680.1	34.4
20°-30°	8869.7	31.6
30°-40°	3583.3	12.8
40°-50°	1051.2	3.7
50°-60°	587.7	2.1
60°-70°	357.0	1.3
70°-80°	181.4	0.6
80°-90°	59.3	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°	28102.8	100.0
0°-180°	28102.8	100.0

Coefficient of Utilization



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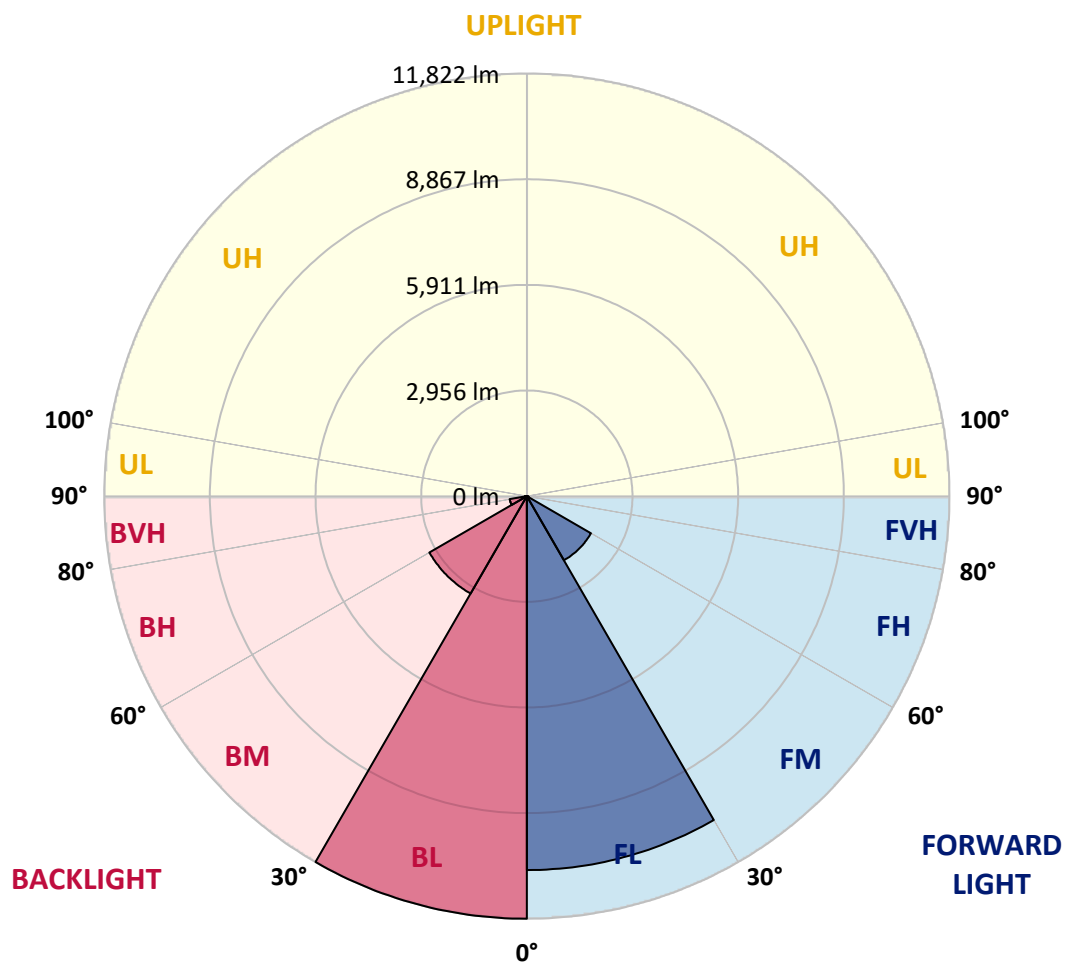
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10460.6	37.2			
FM	(30°-60°)	2073.1	7.4			
FH	(60°-80°)	50.2	0.2			G0/660
FVH	(80°-90°)	5.1	0.0			G0/10
BL	(0°-30°)	11822.3	42.1	B5		
BM	(30°-60°)	3149.2	11.2	B3/5000		
BH	(60°-80°)	488.1	1.7	B1/500		G1/500
BVH	(80°-90°)	54.2	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-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	39149.4	39149.4	39149.4	39149.4	39149.4	39149.4	39149.4	39149.4	39149.4	39149.4
2.5°	38300.4	38430.0	38170.8	38342.5	38475.4	38793.0	38818.9	38929.1	38968.0	39256.4
5°	37574.5	37675.0	37464.3	37694.4	37882.4	38164.3	38381.4	38686.0	38854.5	39194.8
7.5°	36819.5	36842.1	36800.0	37043.1	37325.0	37713.9	37982.8	38381.4	38485.1	38971.2
10°	35905.6	35740.4	35821.4	36177.8	36599.1	37195.4	37380.1	37778.7	37963.4	38459.2
12.5°	34447.4	34531.6	34431.2	34884.8	35234.8	35912.1	36106.5	36508.4	36861.6	37299.1
15°	32392.8	32344.2	32548.4	32901.6	33280.8	33818.7	34133.0	34570.5	34839.5	35293.2
17.5°	27775.0	27940.3	28782.8	29667.5	30445.2	31073.9	31449.8	31812.8	32007.2	32499.8
20°	23986.8	23779.4	23892.8	24391.8	26605.2	27567.6	27963.0	28050.5	28131.5	28520.3
22.5°	19751.3	19683.3	20062.4	20623.0	21148.0	23367.8	23905.8	23701.6	23870.1	24236.3
25°	14666.9	15010.4	15347.4	16423.3	17103.8	18192.6	19213.4	19304.1	19365.7	19595.8
27.5°	11938.3	11818.4	11811.9	12113.3	13117.9	14025.2	14893.7	15094.6	15059.0	15279.3
30°	9384.7	9345.8	9209.7	9281.0	9180.6	9987.5	10395.8	11222.1	11176.8	11183.2
32.5°	6769.6	6623.7	6568.7	6675.6	6571.9	6497.4	6853.8	7787.1	7770.9	7835.7
35°	4096.1	4076.6	4122.0	4216.0	4008.6	4002.1	4076.6	4954.8	5061.8	5165.5
37.5°	2261.9	2242.5	2278.1	2624.9	2556.8	2495.2	2514.7	2978.1	3285.9	3363.7
40°	1490.7	1487.4	1513.4	1574.9	1691.6	1668.9	1678.6	1886.0	2177.7	2245.7
42.5°	998.1	1001.3	1017.5	1088.8	1105.0	1221.7	1202.3	1250.9	1523.1	1581.4
45°	797.2	793.9	803.7	771.3	790.7	910.6	923.6	926.8	1160.1	1195.8
47.5°	628.7	628.7	638.4	596.3	586.5	661.1	729.1	738.9	926.8	975.4
50°	440.7	440.7	489.3	469.9	492.6	515.3	589.8	599.5	758.3	810.1
52.5°	324.1	330.5	337.0	340.3	414.8	411.6	476.4	521.7	573.6	664.3
55°	246.3	252.8	236.6	252.8	307.9	343.5	356.5	421.3	456.9	557.4
57.5°	162.0	178.2	165.3	194.4	207.4	265.7	285.2	346.7	369.4	456.9
60°	22.7	25.9	42.1	136.1	145.8	175.0	220.4	275.4	298.1	372.7
62.5°	3.2	3.2	9.7	22.7	97.2	116.7	165.3	191.2	220.4	278.7
65°	0.0	0.0	3.2	6.5	19.4	68.1	84.3	103.7	152.3	200.9
67.5°	0.0	0.0	3.2	6.5	9.7	22.7	35.6	68.1	87.5	139.3
70°	0.0	0.0	3.2	6.5	9.7	13.0	19.4	25.9	51.8	81.0
72.5°	0.0	0.0	3.2	6.5	9.7	13.0	16.2	19.4	22.7	51.8
75°	0.0	0.0	3.2	6.5	9.7	16.2	19.4	19.4	19.4	22.7
77.5°	0.0	0.0	3.2	6.5	13.0	19.4	22.7	19.4	16.2	16.2
80°	0.0	0.0	3.2	9.7	16.2	22.7	25.9	19.4	13.0	9.7
82.5°	0.0	0.0	3.2	9.7	16.2	22.7	25.9	22.7	13.0	9.7
85°	0.0	0.0	3.2	9.7	13.0	16.2	25.9	22.7	13.0	6.5
87.5°	0.0	0.0	0.0	3.2	3.2	6.5	13.0	9.7	6.5	3.2
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°
39149.4	0°	39149.4	39149.4	39149.4	39149.4	39149.4	39149.4	39149.4	39149.4	39149.4
39249.9	2.5°	39541.6	39687.4	39943.4	40014.7	40235.0	39982.3	39842.9	39855.9	39554.5
39152.7	5°	39541.6	39875.3	40322.5	40536.4	40698.4	40685.5	40649.8	40559.1	40338.7
38958.2	7.5°	39437.9	39982.3	40598.0	40883.2	41077.6	41061.4	41142.4	40996.6	40727.6
38611.5	10°	39104.1	39577.2	40335.5	40568.8	40883.2	40889.6	40789.2	40818.3	40338.7
37344.4	12.5°	38054.1	38423.6	39087.9	39353.6	39736.0	39797.6	39687.4	39645.3	39191.6
35267.2	15°	36022.3	36236.2	36903.7	37169.4	37548.6	37496.7	37606.9	37561.6	37163.0
32460.9	17.5°	33050.7	33118.7	33818.7	34042.3	34398.8	34538.1	34372.8	34583.5	34240.0
28588.4	20°	28789.3	29155.5	29943.0	30286.5	30493.9	30743.4	30526.3	30762.8	30361.0
23889.6	22.5°	24466.4	24683.5	25396.4	25892.2	26277.9	26326.5	26245.5	26410.7	25869.5
19748.1	25°	19744.9	20104.6	20668.4	21316.5	21695.7	21929.0	21718.4	21825.3	21737.8
15315.0	27.5°	15574.2	15895.0	16319.6	16802.4	17372.7	17677.4	17508.9	17690.3	17262.6
11419.8	30°	11429.5	11591.6	12071.2	12583.2	13208.6	13578.0	13594.2	13778.9	13526.2
8001.0	32.5°	8059.3	8201.9	8496.8	8837.1	9433.3	9844.9	9780.1	9806.0	9650.4
5214.1	35°	5240.0	5431.2	5641.8	5803.9	6163.6	6617.3	6581.6	6549.2	6442.3
3428.5	37.5°	3503.1	3577.6	3694.3	3840.1	4073.4	4358.6	4452.6	4335.9	4290.5
2313.8	40°	2368.9	2498.5	2576.3	2686.4	2796.6	3036.4	3101.2	3078.6	3033.2
1620.3	42.5°	1681.9	1782.3	1879.5	1986.5	2044.8	2193.9	2320.3	2284.6	2265.2
1231.4	45°	1276.8	1367.5	1480.9	1562.0	1620.3	1707.8	1827.7	1840.6	1811.5
988.4	47.5°	1024.0	1105.0	1195.8	1296.2	1364.3	1419.4	1523.1	1562.0	1542.5
832.8	50°	868.5	930.0	1017.5	1118.0	1192.5	1241.1	1331.9	1374.0	1361.0
696.7	52.5°	738.9	813.4	894.4	978.7	1069.4	1118.0	1202.3	1263.8	1254.1
576.8	55°	612.5	709.7	793.9	878.2	981.9	1030.5	1105.0	1186.1	1169.8
489.3	57.5°	534.7	615.7	703.2	784.2	894.4	959.2	1027.3	1111.5	1108.3
401.8	60°	447.2	528.2	625.4	693.5	810.1	900.9	962.5	1049.9	1056.4
304.6	62.5°	356.5	456.9	531.5	625.4	732.4	839.3	897.6	985.1	1017.5
233.3	65°	265.7	375.9	460.2	554.1	654.6	774.5	826.3	913.8	946.2
168.5	67.5°	197.7	281.9	388.9	469.9	583.3	687.0	748.6	829.6	852.3
100.5	70°	149.1	217.1	324.1	395.4	512.0	596.3	657.8	719.4	748.6
68.1	72.5°	87.5	162.0	256.0	340.3	440.7	512.0	557.4	606.0	625.4
32.4	75°	61.6	123.1	200.9	281.9	356.5	414.8	456.9	499.0	518.5
16.2	77.5°	32.4	90.7	158.8	226.8	278.7	327.3	369.4	401.8	414.8
13.0	80°	19.4	64.8	129.6	178.2	213.9	256.0	298.1	320.8	317.6
9.7	82.5°	13.0	51.8	94.0	129.6	155.5	188.0	217.1	233.3	233.3
6.5	85°	9.7	35.6	64.8	100.5	103.7	129.6	136.1	152.3	155.5
6.5	87.5°	6.5	22.7	35.6	58.3	55.1	68.1	71.3	81.0	87.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
39149.4
39311.5
40410.0
40789.2
40199.4
39087.9
37289.3
34155.7
30328.6
25795.0
21682.7
17372.7
13571.5
9737.9
6348.3
4280.8
3039.7
2249.0
1808.2
1532.8
1357.8
1247.6
1169.8
1105.0
1056.4
1014.3
943.0
852.3
742.1
619.0
512.0
411.6
314.3
230.1
152.3
84.3
0.0

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