

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: P637658

Luminaire Tested: **IFLD-L-SA7C-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637658
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5
distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41641.8 lumens
Efficiency: N/A
Efficacy: 112.9 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): 369
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



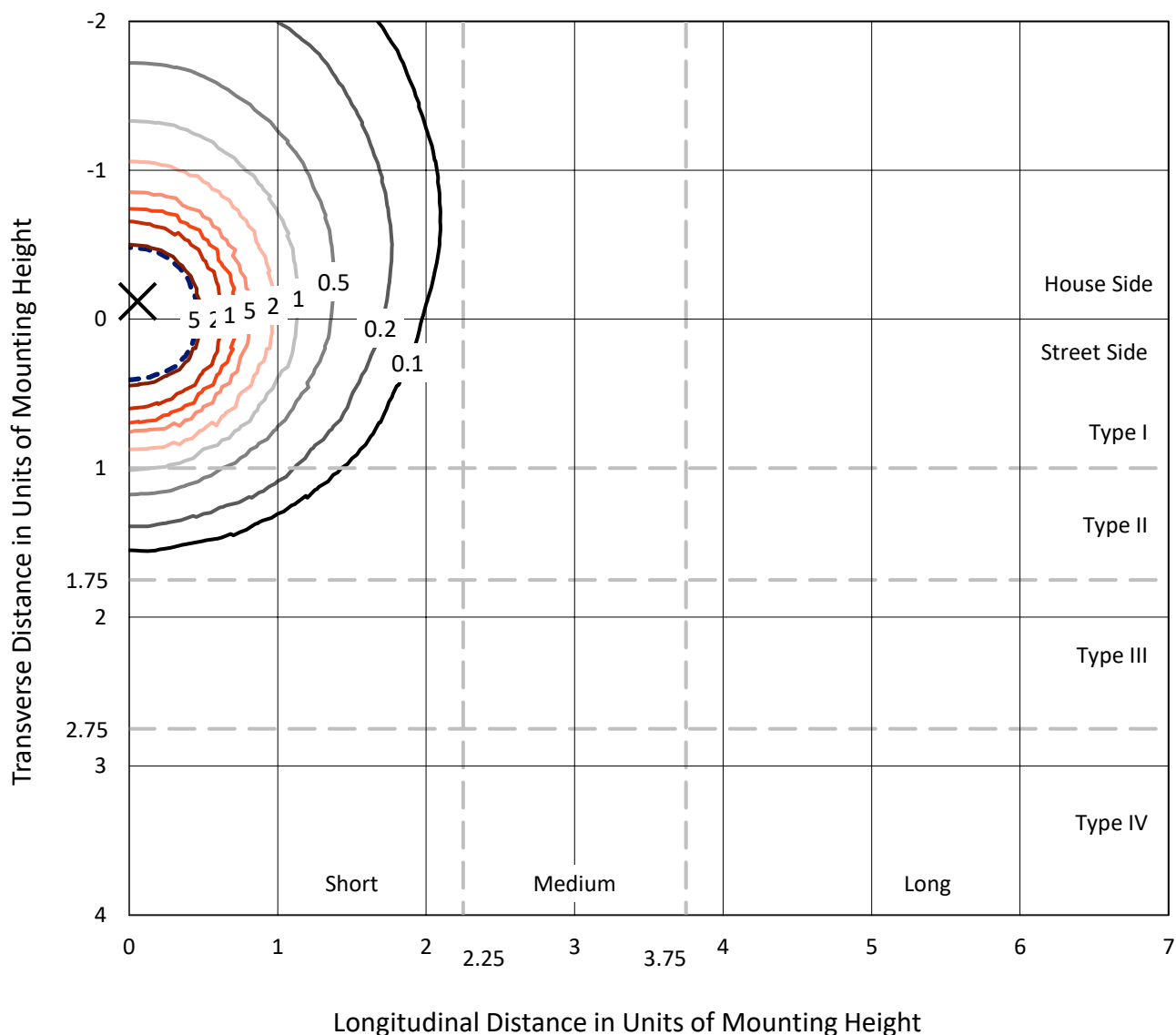
REPORT NUMBER: P637658

CATALOG NUMBER: IFLD-L-SA7C-740-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

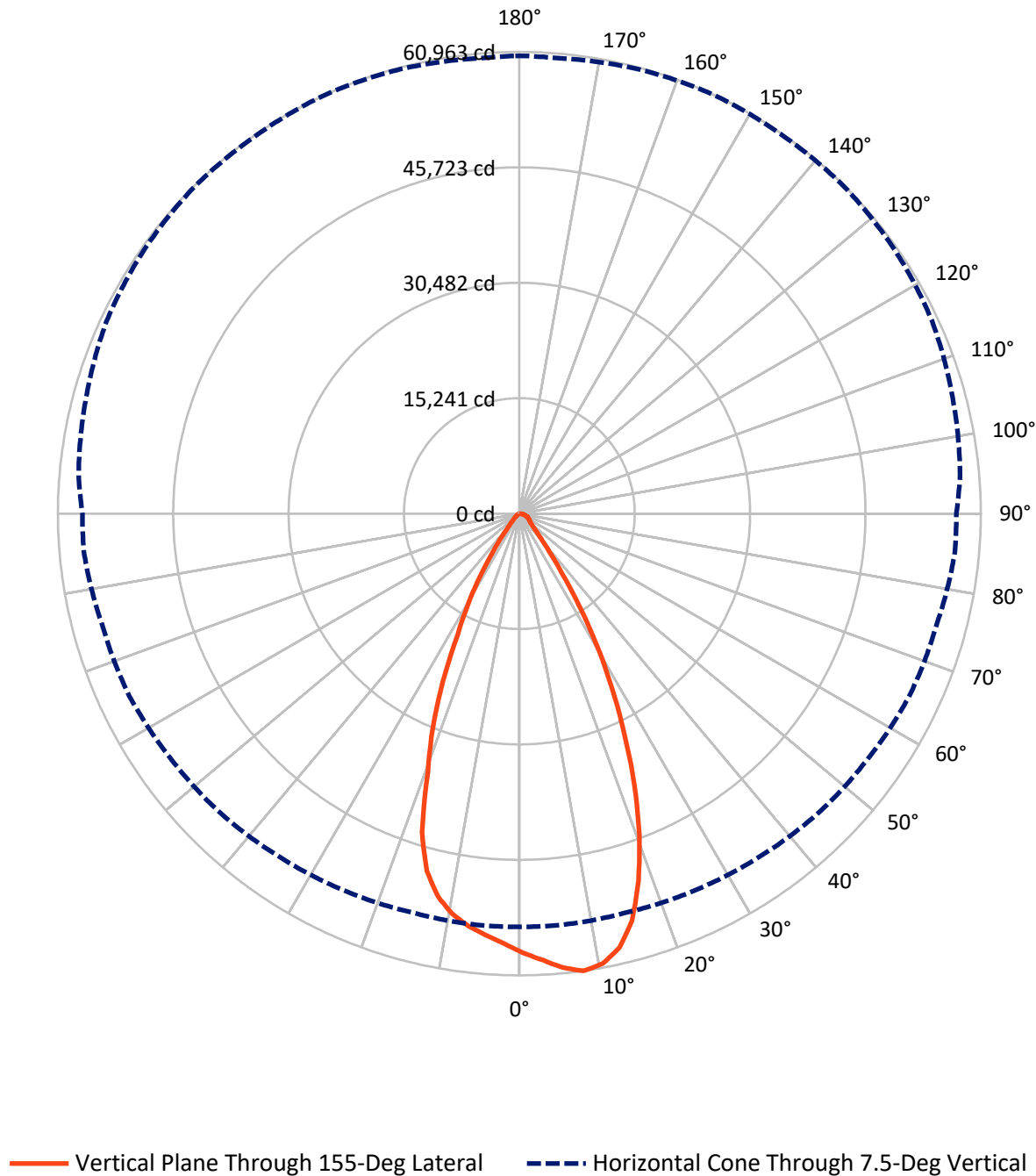


Based on 20 foot mounting height. Maximum calculated value = 147.4 fc

Type I - Short - N/A

REPORT NUMBER: P637658
CATALOG NUMBER: IFLD-L-SA7C-740-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637658

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22987.8	0.0	22987.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	18654.0	0.0	18654.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	41641.8	0.0	41641.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5531.7	13.3
10°-20°	14343.6	34.4
20°-30°	13142.7	31.6
30°-40°	5309.7	12.8
40°-50°	1557.6	3.7
50°-60°	870.9	2.1
60°-70°	529.0	1.3
70°-80°	268.8	0.6
80°-90°	87.9	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°	41641.8	100.0
0°-180°	41641.8	100.0

Coefficient of Utilization



REPORT NUMBER: P637658

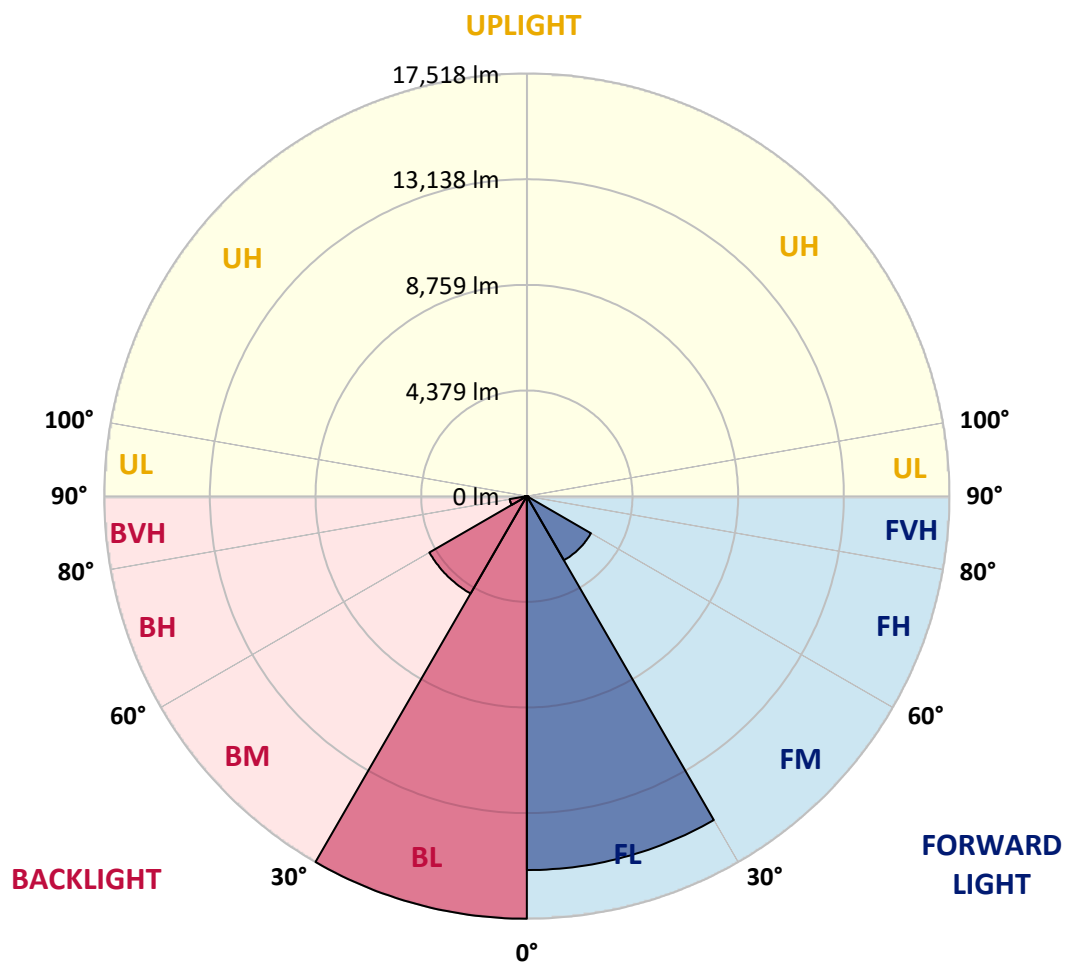
CATALOG NUMBER: IFLD-L-SA7C-740-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	15500.1	37.2			
FM	(30°-60°)	3071.8	7.4			
FH	(60°-80°)	74.4	0.2			G0/660
FVH	(80°-90°)	7.6	0.0			G0/10
BL	(0°-30°)	17517.9	42.1	B5		
BM	(30°-60°)	4666.3	11.2	B3/5000		
BH	(60°-80°)	723.3	1.7	B2/1000		G2/1000
BVH	(80°-90°)	80.3	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



REPORT NUMBER: P637658

CATALOG NUMBER: IFLD-L-SA7C-740-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	58010.3	58010.3	58010.3	58010.3	58010.3	58010.3	58010.3	58010.3	58010.3	58010.3
2.5°	56752.2	56944.3	56560.1	56814.6	57011.5	57482.1	57520.5	57683.8	57741.4	58168.7
5°	55676.6	55825.5	55513.3	55854.3	56132.8	56550.5	56872.3	57323.6	57573.3	58077.5
7.5°	54557.8	54591.4	54529.0	54889.1	55306.9	55883.1	56281.6	56872.3	57025.9	57746.2
10°	53203.7	52958.8	53078.8	53607.0	54231.3	55114.8	55388.5	55979.1	56252.8	56987.5
12.5°	51042.9	51167.7	51018.9	51691.1	52209.7	53213.3	53501.4	54096.8	54620.2	55268.5
15°	47998.6	47926.5	48229.1	48752.4	49314.3	50111.3	50577.1	51225.4	51623.9	52296.2
17.5°	41156.0	41400.9	42649.4	43960.3	45112.7	46044.2	46601.2	47139.0	47427.2	48157.0
20°	35542.8	35235.4	35403.5	36143.0	39422.6	40848.7	41434.5	41564.2	41684.2	42260.4
22.5°	29266.8	29166.0	29727.8	30558.5	31336.4	34625.6	35422.7	35120.2	35369.9	35912.5
25°	21732.8	22241.8	22741.2	24335.4	25343.8	26957.2	28469.7	28604.2	28695.4	29036.3
27.5°	17689.7	17512.1	17502.5	17949.0	19437.6	20782.1	22069.0	22366.7	22313.9	22640.4
30°	13905.9	13848.3	13646.7	13752.3	13603.4	14799.1	15404.1	16628.6	16561.3	16570.9
32.5°	10030.9	9814.8	9733.2	9891.7	9738.0	9627.6	10155.8	11538.7	11514.7	11610.7
35°	6069.4	6040.6	6107.9	6247.1	5939.8	5930.2	6040.6	7341.9	7500.4	7654.0
37.5°	3351.6	3322.8	3375.6	3889.4	3788.6	3697.4	3726.2	4412.8	4869.0	4984.2
40°	2208.8	2204.0	2242.4	2333.7	2506.5	2472.9	2487.3	2794.6	3226.8	3327.6
42.5°	1478.9	1483.7	1507.8	1613.4	1637.4	1810.3	1781.5	1853.5	2256.8	2343.3
45°	1181.2	1176.4	1190.8	1142.8	1171.6	1349.3	1368.5	1373.3	1719.0	1771.9
47.5°	931.5	931.5	946.0	883.5	869.1	979.6	1080.4	1094.8	1373.3	1445.3
50°	653.0	653.0	725.1	696.3	729.9	763.5	873.9	888.3	1123.6	1200.4
52.5°	480.2	489.8	499.4	504.2	614.6	609.8	705.9	773.1	849.9	984.4
55°	364.9	374.5	350.5	374.5	456.2	509.0	528.2	624.2	677.1	825.9
57.5°	240.1	264.1	244.9	288.1	307.3	393.7	422.6	513.8	547.4	677.1
60°	33.6	38.4	62.4	201.7	216.1	259.3	326.5	408.2	441.8	552.2
62.5°	4.8	4.8	14.4	33.6	144.1	172.9	244.9	283.3	326.5	413.0
65°	0.0	0.0	4.8	9.6	28.8	100.8	124.8	153.7	225.7	297.7
67.5°	0.0	0.0	4.8	9.6	14.4	33.6	52.8	100.8	129.6	206.5
70°	0.0	0.0	4.8	9.6	14.4	19.2	28.8	38.4	76.8	120.0
72.5°	0.0	0.0	4.8	9.6	14.4	19.2	24.0	28.8	33.6	76.8
75°	0.0	0.0	4.8	9.6	14.4	24.0	28.8	28.8	28.8	33.6
77.5°	0.0	0.0	4.8	9.6	19.2	28.8	33.6	28.8	24.0	24.0
80°	0.0	0.0	4.8	14.4	24.0	33.6	38.4	28.8	19.2	14.4
82.5°	0.0	0.0	4.8	14.4	24.0	33.6	38.4	33.6	19.2	14.4
85°	0.0	0.0	4.8	14.4	19.2	24.0	38.4	33.6	19.2	9.6
87.5°	0.0	0.0	0.0	4.8	4.8	9.6	19.2	14.4	9.6	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637658

CATALOG NUMBER: IFLD-L-SA7C-740-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
58010.3	0°	58010.3	58010.3	58010.3	58010.3	58010.3	58010.3	58010.3	58010.3	58010.3
58159.1	2.5°	58591.3	58807.4	59186.7	59292.3	59618.9	59244.3	59037.9	59057.1	58610.5
58015.1	5°	58591.3	59085.9	59748.5	60065.4	60305.5	60286.3	60233.5	60099.0	59772.5
57727.0	7.5°	58437.6	59244.3	60156.7	60579.2	60867.3	60843.3	60963.4	60747.3	60348.7
57213.2	10°	57943.0	58644.1	59767.7	60113.5	60579.2	60588.8	60440.0	60483.2	59772.5
55335.7	12.5°	56387.3	56934.7	57919.0	58312.8	58879.4	58970.6	58807.4	58744.9	58072.7
52257.7	15°	53376.6	53693.5	54682.6	55076.4	55638.2	55561.4	55724.6	55657.4	55066.8
48099.4	17.5°	48973.3	49074.2	50111.3	50442.7	50970.9	51177.3	50932.5	51244.6	50735.6
42361.3	20°	42659.0	43201.6	44368.4	44877.4	45184.7	45554.5	45232.7	45583.3	44987.9
35398.7	22.5°	36253.4	36575.1	37631.5	38366.2	38937.6	39009.6	38889.6	39134.5	38332.6
29262.0	25°	29257.2	29790.2	30625.7	31586.1	32147.9	32493.6	32181.5	32340.0	32210.3
22693.2	27.5°	23077.3	23552.7	24181.8	24897.2	25742.3	26193.7	25944.0	26212.9	25579.1
16921.5	30°	16935.9	17176.0	17886.6	18645.3	19572.0	20119.4	20143.5	20417.2	20042.6
11855.6	32.5°	11942.0	12153.3	12590.3	13094.4	13978.0	14587.8	14491.8	14530.2	14299.7
7726.1	35°	7764.5	8047.8	8359.9	8600.0	9133.0	9805.2	9752.4	9704.4	9545.9
5080.3	37.5°	5190.7	5301.2	5474.0	5690.1	6035.8	6458.4	6597.6	6424.8	6357.6
3428.5	40°	3510.1	3702.2	3817.4	3980.7	4143.9	4499.3	4595.3	4561.7	4494.5
2400.9	42.5°	2492.1	2641.0	2785.0	2943.5	3029.9	3250.8	3438.1	3385.3	3356.4
1824.7	45°	1891.9	2026.4	2194.4	2314.5	2400.9	2530.5	2708.2	2727.4	2684.2
1464.5	47.5°	1517.4	1637.4	1771.9	1920.7	2021.5	2103.2	2256.8	2314.5	2285.6
1234.1	50°	1286.9	1378.1	1507.8	1656.6	1767.1	1839.1	1973.5	2036.0	2016.7
1032.4	52.5°	1094.8	1205.2	1325.3	1450.1	1584.6	1656.6	1781.5	1872.7	1858.3
854.7	55°	907.5	1051.6	1176.4	1301.3	1454.9	1527.0	1637.4	1757.5	1733.4
725.1	57.5°	792.3	912.3	1042.0	1162.0	1325.3	1421.3	1522.2	1647.0	1642.2
595.4	60°	662.6	782.7	926.7	1027.6	1200.4	1334.9	1426.1	1555.8	1565.4
451.4	62.5°	528.2	677.1	787.5	926.7	1085.2	1243.7	1330.1	1459.7	1507.8
345.7	65°	393.7	557.0	681.9	821.1	970.0	1147.6	1224.5	1354.1	1402.1
249.7	67.5°	292.9	417.8	576.2	696.3	864.3	1018.0	1109.2	1229.3	1262.9
148.9	70°	220.9	321.7	480.2	585.8	758.7	883.5	974.8	1066.0	1109.2
100.8	72.5°	129.6	240.1	379.3	504.2	653.0	758.7	825.9	897.9	926.7
48.0	75°	91.2	182.5	297.7	417.8	528.2	614.6	677.1	739.5	768.3
24.0	77.5°	48.0	134.4	235.3	336.1	413.0	485.0	547.4	595.4	614.6
19.2	80°	28.8	96.0	192.1	264.1	316.9	379.3	441.8	475.4	470.6
14.4	82.5°	19.2	76.8	139.3	192.1	230.5	278.5	321.7	345.7	345.7
9.6	85°	14.4	52.8	96.0	148.9	153.7	192.1	201.7	225.7	230.5
9.6	87.5°	9.6	33.6	52.8	86.4	81.6	100.8	105.6	120.0	129.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
58010.3
58250.4
59878.2
60440.0
59566.0
57919.0
55254.1
50610.7
44939.8
38222.1
32128.7
25742.3
20109.8
14429.3
9406.7
6343.1
4504.1
3332.4
2679.4
2271.2
2011.9
1848.7
1733.4
1637.4
1565.4
1503.0
1397.3
1262.9
1099.6
917.1
758.7
609.8
465.8
340.9
225.7
124.8
0.0

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