

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: P637663

Luminaire Tested: **IFLD-L-SA8C-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637663
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47590.8 lumens
Efficiency: N/A
Efficacy: 113.2 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): 420.3
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



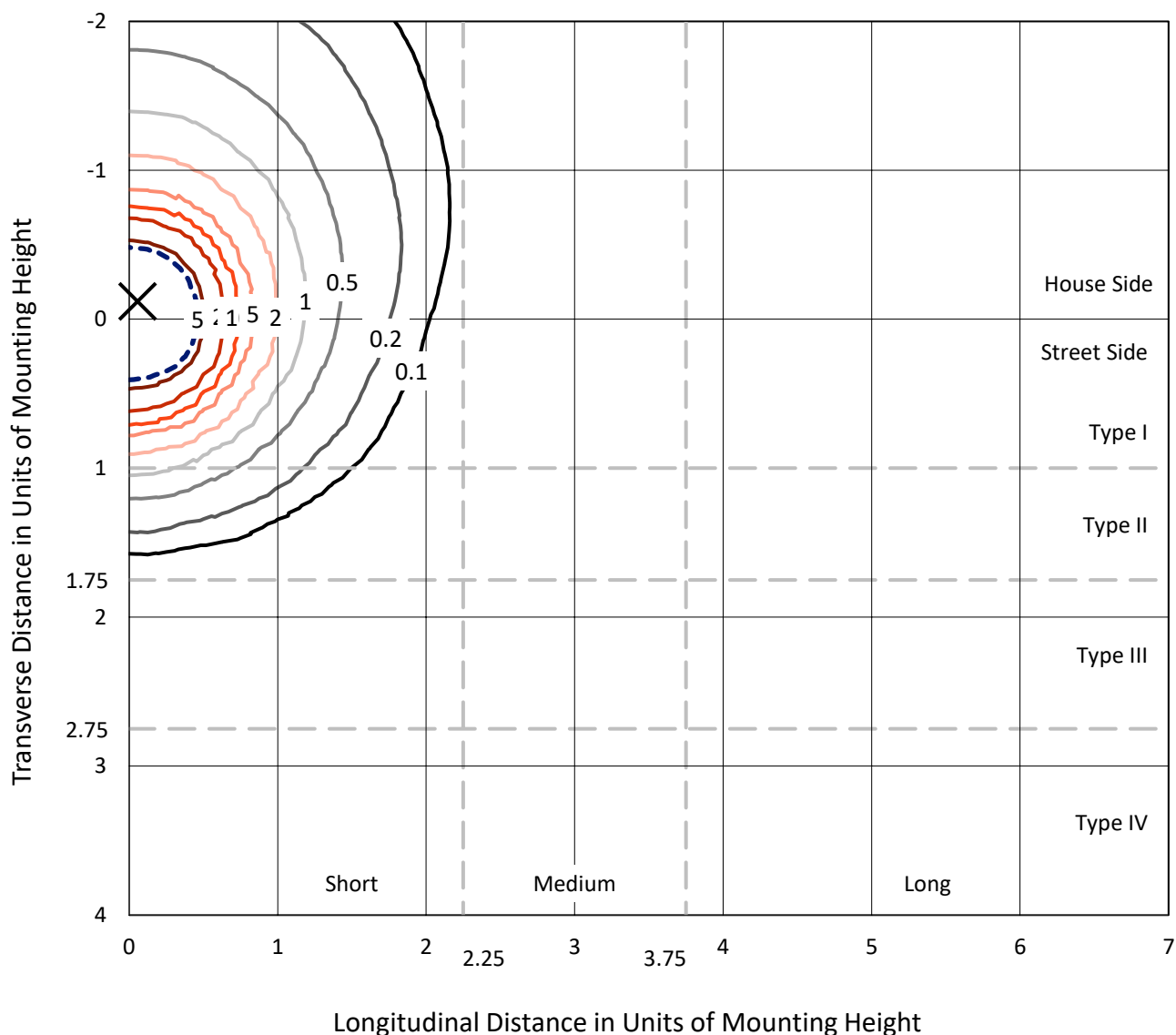
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

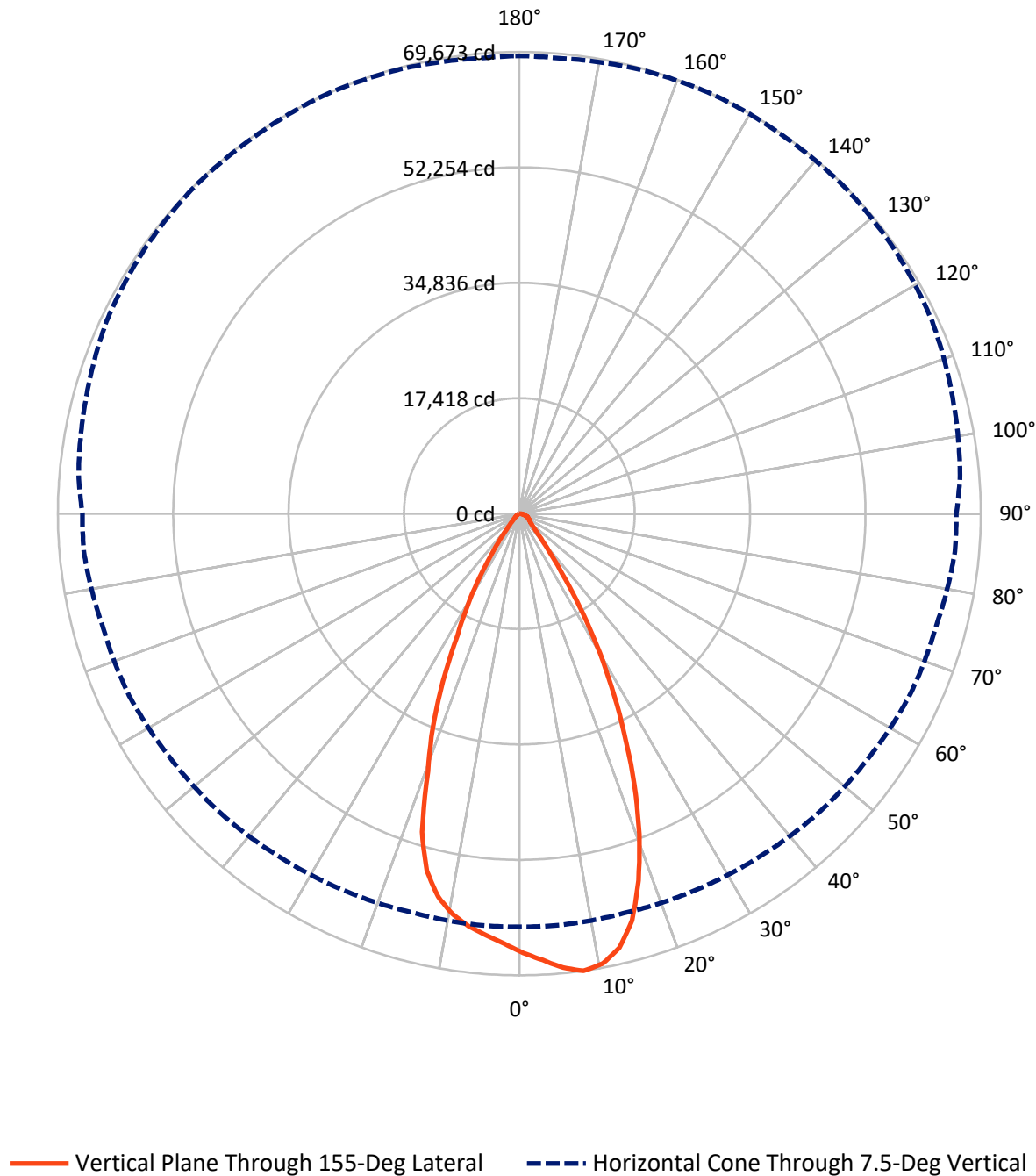


Based on 20 foot mounting height. Maximum calculated value = 168.5 fc

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	26271.9	0.0	26271.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	21318.9	0.0	21318.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	47590.8	0.0	47590.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6321.9	13.3
10°-20°	16392.7	34.4
20°-30°	15020.3	31.6
30°-40°	6068.2	12.8
40°-50°	1780.1	3.7
50°-60°	995.3	2.1
60°-70°	604.5	1.3
70°-80°	307.2	0.6
80°-90°	100.5	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°	47590.8	100.0
0°-180°	47590.8	100.0

Coefficient of Utilization



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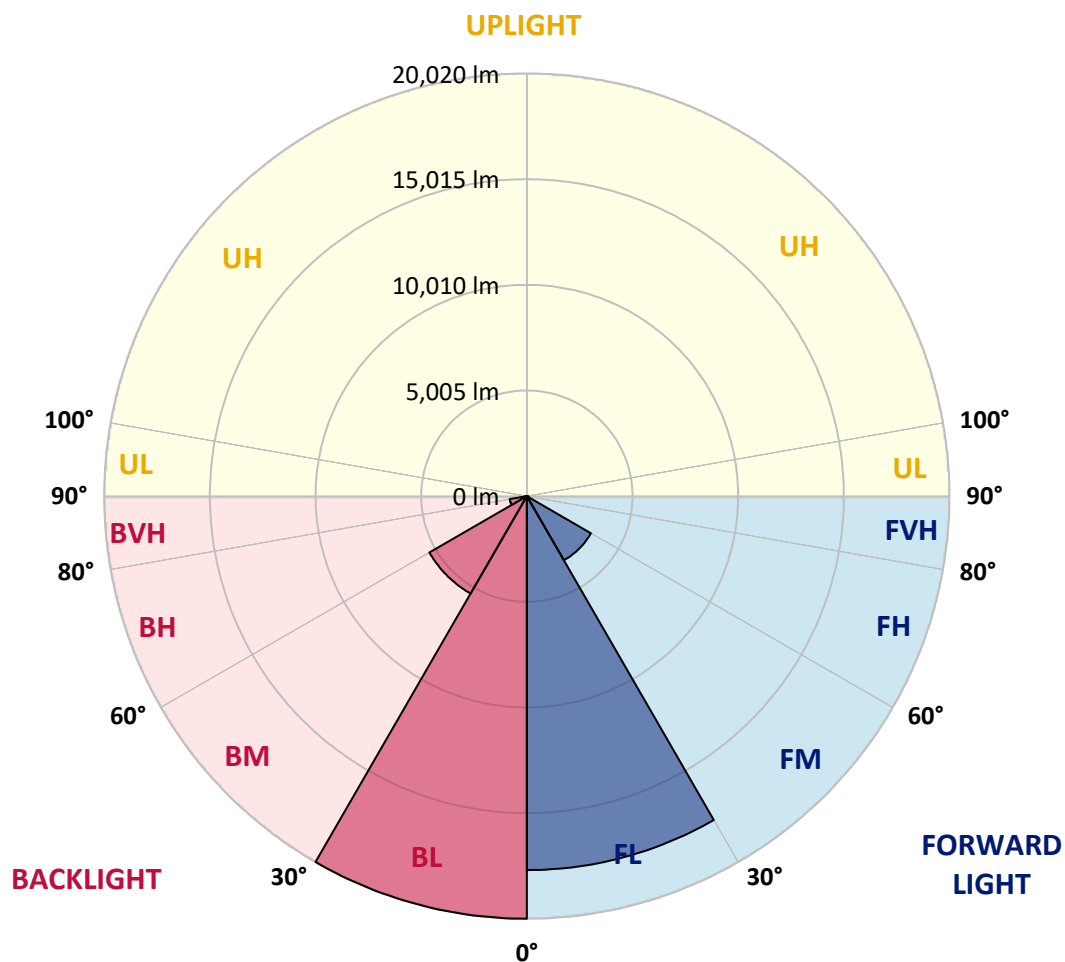
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	17714.5	37.2			
FM	(30°-60°)	3510.7	7.4			
FH	(60°-80°)	85.0	0.2			G0/660
FVH	(80°-90°)	8.7	0.0			G0/10
BL	(0°-30°)	20020.5	42.1	B5		
BM	(30°-60°)	5333.0	11.2	B4/8500		
BH	(60°-80°)	826.6	1.7	B2/1000		G2/1000
BVH	(80°-90°)	91.8	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°	66297.6	66297.6	66297.6	66297.6	66297.6	66297.6	66297.6	66297.6	66297.6	66297.6
2.5°	64859.8	65079.4	64640.3	64931.2	65156.2	65694.0	65737.9	65924.5	65990.3	66478.7
5°	63630.6	63800.7	63444.0	63833.6	64151.9	64629.4	64997.0	65512.9	65798.3	66374.5
7.5°	62351.9	62390.4	62319.0	62730.6	63208.0	63866.6	64322.0	64997.0	65172.6	65995.8
10°	60804.4	60524.5	60661.7	61265.4	61978.8	62988.5	63301.3	63976.3	64289.1	65128.7
12.5°	58334.9	58477.6	58307.5	59075.7	59668.4	60815.4	61144.6	61825.1	62423.3	63164.1
15°	54855.7	54773.3	55119.1	55717.2	56359.3	57270.3	57802.6	58543.4	58998.9	59767.2
17.5°	47035.6	47315.5	48742.3	50240.4	51557.5	52622.1	53258.7	53873.3	54202.6	55036.8
20°	40620.4	40269.2	40461.3	41306.4	45054.5	46684.4	47353.9	47502.1	47639.3	48297.8
22.5°	33447.9	33332.7	33974.7	34924.1	35813.1	39572.2	40483.2	40137.5	40422.8	41043.0
25°	24837.6	25419.3	25990.0	27812.0	28964.4	30808.3	32536.9	32690.6	32794.9	33184.5
27.5°	20216.9	20013.9	20002.9	20513.2	22214.5	23751.0	25221.7	25562.0	25501.6	25874.8
30°	15892.6	15826.7	15596.2	15716.9	15546.8	16913.3	17604.7	19004.1	18927.3	18938.3
32.5°	11463.9	11217.0	11123.7	11304.8	11129.2	11003.0	11606.6	13187.1	13159.7	13269.4
35°	6936.5	6903.6	6980.4	7139.6	6788.4	6777.4	6903.6	8390.8	8571.9	8747.5
37.5°	3830.5	3797.5	3857.9	4445.1	4329.8	4225.6	4258.5	5043.3	5564.6	5696.3
40°	2524.4	2518.9	2562.8	2667.1	2864.6	2826.2	2842.7	3193.9	3687.8	3803.0
42.5°	1690.2	1695.7	1723.2	1843.9	1871.3	2068.9	2036.0	2118.3	2579.2	2678.0
45°	1350.0	1344.5	1361.0	1306.1	1339.0	1542.1	1564.0	1569.5	1964.6	2025.0
47.5°	1064.6	1064.6	1081.1	1009.7	993.3	1119.5	1234.7	1251.2	1569.5	1651.8
50°	746.3	746.3	828.7	795.7	834.1	872.6	998.8	1015.2	1284.1	1371.9
52.5°	548.8	559.8	570.7	576.2	702.4	696.9	806.7	883.5	971.3	1125.0
55°	417.1	428.0	400.6	428.0	521.3	581.7	603.7	713.4	773.8	943.9
57.5°	274.4	301.8	279.9	329.3	351.2	450.0	482.9	587.2	625.6	773.8
60°	38.4	43.9	71.3	230.5	246.9	296.3	373.2	466.5	504.9	631.1
62.5°	5.5	5.5	16.5	38.4	164.6	197.6	279.9	323.8	373.2	471.9
65°	0.0	0.0	5.5	11.0	32.9	115.2	142.7	175.6	257.9	340.2
67.5°	0.0	0.0	5.5	11.0	16.5	38.4	60.4	115.2	148.2	236.0
70°	0.0	0.0	5.5	11.0	16.5	22.0	32.9	43.9	87.8	137.2
72.5°	0.0	0.0	5.5	11.0	16.5	22.0	27.4	32.9	38.4	87.8
75°	0.0	0.0	5.5	11.0	16.5	27.4	32.9	32.9	32.9	38.4
77.5°	0.0	0.0	5.5	11.0	22.0	32.9	38.4	32.9	27.4	27.4
80°	0.0	0.0	5.5	16.5	27.4	38.4	43.9	32.9	22.0	16.5
82.5°	0.0	0.0	5.5	16.5	27.4	38.4	43.9	38.4	22.0	16.5
85°	0.0	0.0	5.5	16.5	22.0	27.4	43.9	38.4	22.0	11.0
87.5°	0.0	0.0	0.0	5.5	5.5	11.0	22.0	16.5	11.0	5.5
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°
66297.6	0°	66297.6	66297.6	66297.6	66297.6	66297.6	66297.6	66297.6	66297.6	66297.6
66467.8	2.5°	66961.7	67208.6	67642.1	67762.9	68136.0	67708.0	67472.0	67494.0	66983.6
66303.1	5°	66961.7	67526.9	68284.2	68646.4	68920.8	68898.8	68838.5	68684.8	68311.6
65973.9	7.5°	66786.0	67708.0	68750.7	69233.6	69562.9	69535.4	69672.6	69425.7	68970.2
65386.7	10°	66220.8	67022.0	68306.2	68701.3	69233.6	69244.6	69074.4	69123.8	68311.6
63241.0	12.5°	64442.8	65068.4	66193.4	66643.4	67290.9	67395.2	67208.6	67137.3	66369.0
59723.3	15°	61001.9	61364.1	62494.6	62944.6	63586.7	63498.9	63685.5	63608.6	62933.6
54970.9	17.5°	55969.7	56084.9	57270.3	57648.9	58252.6	58488.6	58208.7	58565.4	57983.7
48413.0	20°	48753.3	49373.4	50706.9	51288.6	51639.8	52062.4	51694.7	52095.3	51414.8
40455.8	22.5°	41432.6	41800.3	43007.6	43847.2	44500.3	44582.6	44445.4	44725.2	43808.8
33442.4	25°	33436.9	34046.1	35000.9	36098.5	36740.6	37135.7	36779.0	36960.1	36811.9
25935.2	27.5°	26374.2	26917.5	27636.4	28454.0	29419.9	29935.7	29650.4	29957.7	29233.3
19338.9	30°	19355.3	19629.7	20441.9	21309.0	22368.1	22993.7	23021.2	23334.0	22905.9
13549.3	32.5°	13648.1	13889.5	14388.9	14965.1	15974.9	16671.8	16562.1	16606.0	16342.6
8829.8	35°	8873.7	9197.5	9554.2	9828.6	10437.7	11206.0	11145.6	11090.8	10909.7
5806.1	37.5°	5932.3	6058.5	6256.0	6503.0	6898.1	7381.0	7540.2	7342.6	7265.8
3918.3	40°	4011.6	4231.1	4362.8	4549.4	4735.9	5142.0	5251.8	5213.4	5136.5
2743.9	42.5°	2848.1	3018.3	3182.9	3364.0	3462.8	3715.2	3929.2	3868.9	3835.9
2085.3	45°	2162.2	2315.8	2507.9	2645.1	2743.9	2892.0	3095.1	3117.0	3067.7
1673.8	47.5°	1734.1	1871.3	2025.0	2195.1	2310.3	2403.6	2579.2	2645.1	2612.2
1410.4	50°	1470.7	1575.0	1723.2	1893.3	2019.5	2101.8	2255.5	2326.8	2304.9
1179.9	52.5°	1251.2	1377.4	1514.6	1657.3	1811.0	1893.3	2036.0	2140.2	2123.8
976.8	55°	1037.2	1201.8	1344.5	1487.2	1662.8	1745.1	1871.3	2008.5	1981.1
828.7	57.5°	905.5	1042.7	1190.8	1328.0	1514.6	1624.4	1739.6	1882.3	1876.8
680.5	60°	757.3	894.5	1059.1	1174.4	1371.9	1525.6	1629.9	1778.0	1789.0
515.8	62.5°	603.7	773.8	900.0	1059.1	1240.2	1421.3	1520.1	1668.3	1723.2
395.1	65°	450.0	636.6	779.3	938.4	1108.5	1311.6	1399.4	1547.5	1602.4
285.4	67.5°	334.8	477.4	658.5	795.7	987.8	1163.4	1267.7	1404.9	1443.3
170.1	70°	252.4	367.7	548.8	669.5	867.1	1009.7	1114.0	1218.3	1267.7
115.2	72.5°	148.2	274.4	433.5	576.2	746.3	867.1	943.9	1026.2	1059.1
54.9	75°	104.3	208.5	340.2	477.4	603.7	702.4	773.8	845.1	878.0
27.4	77.5°	54.9	153.7	268.9	384.1	471.9	554.3	625.6	680.5	702.4
22.0	80°	32.9	109.8	219.5	301.8	362.2	433.5	504.9	543.3	537.8
16.5	82.5°	22.0	87.8	159.1	219.5	263.4	318.3	367.7	395.1	395.1
11.0	85°	16.5	60.4	109.8	170.1	175.6	219.5	230.5	257.9	263.4
11.0	87.5°	11.0	38.4	60.4	98.8	93.3	115.2	120.7	137.2	148.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
66297.6
66572.0
68432.4
69074.4
68075.7
66193.4
63147.7
57841.0
51360.0
43682.6
36718.6
29419.9
22982.7
16490.7
10750.5
7249.3
5147.5
3808.5
3062.2
2595.7
2299.4
2112.8
1981.1
1871.3
1789.0
1717.7
1596.9
1443.3
1256.7
1048.2
867.1
696.9
532.3
389.6
257.9
142.7
0.0

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