

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: P637623

Luminaire Tested: **IFLD-M-SA4B-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637623
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21160.1 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 166.1
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



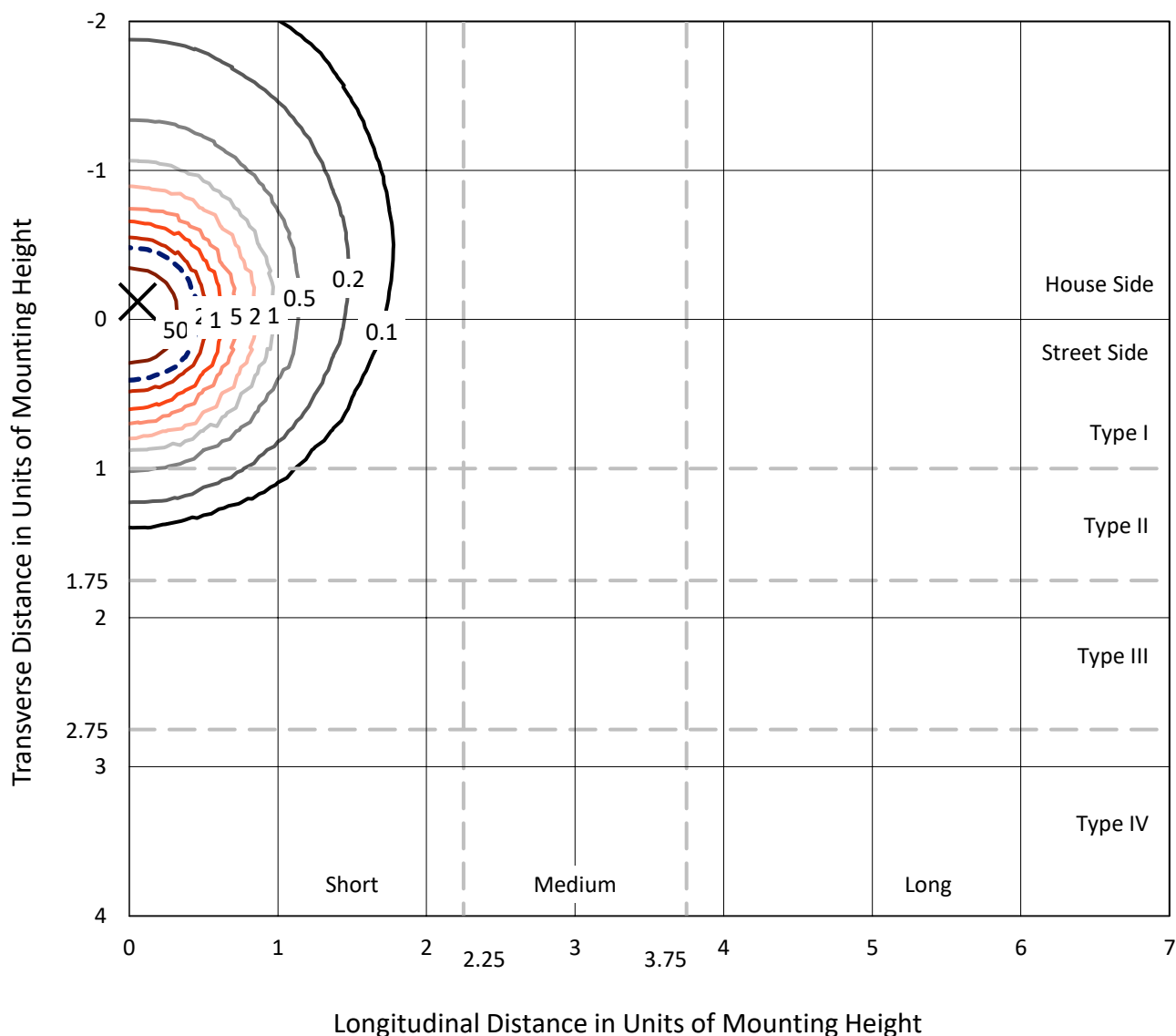
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

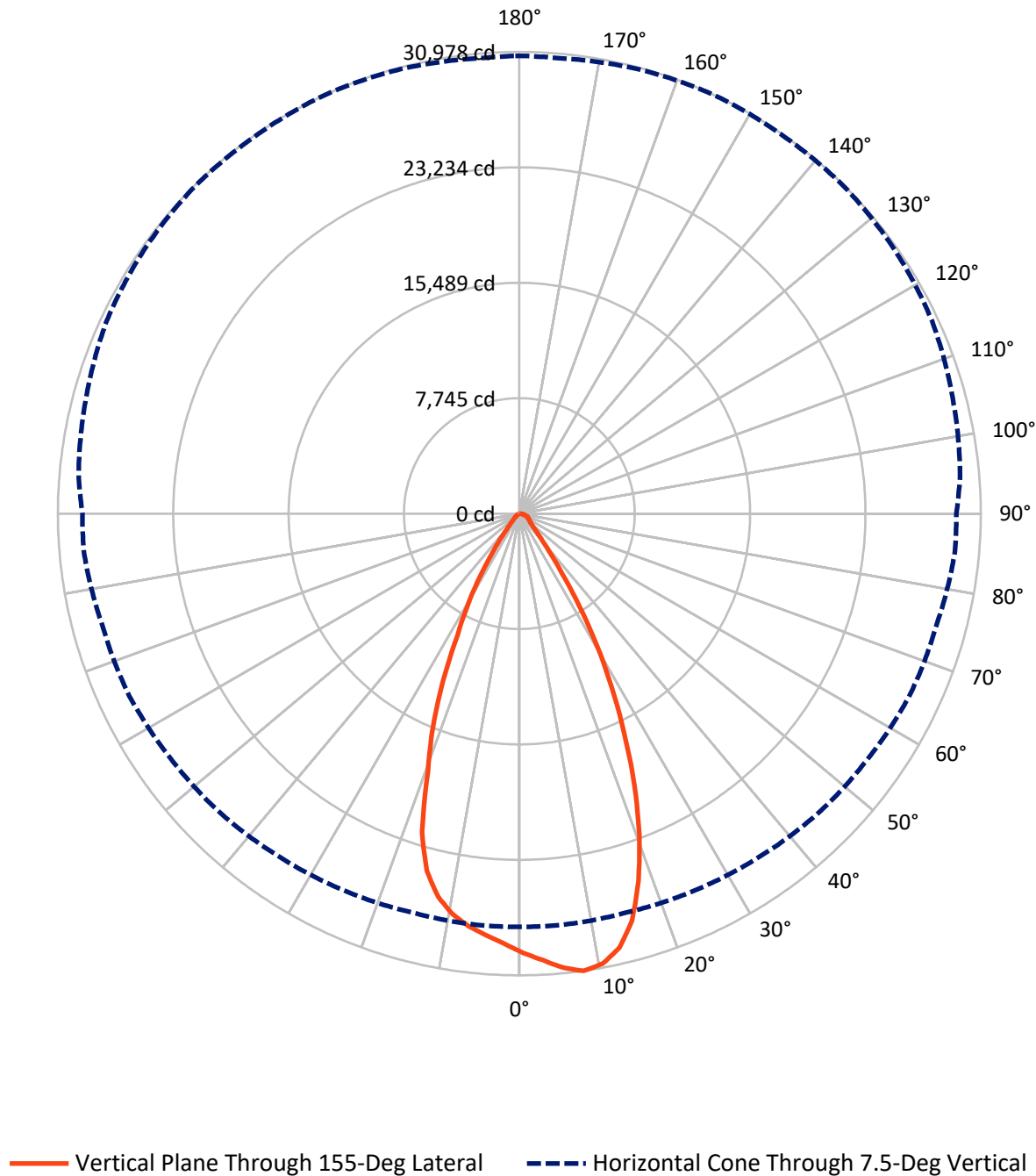


Based on 20 foot mounting height. Maximum calculated value = 74.9 fc

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	11681.2	0.0	11681.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9478.9	0.0	9478.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	21160.1	0.0	21160.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2810.9	13.3
10°-20°	7288.6	34.4
20°-30°	6678.4	31.6
30°-40°	2698.1	12.8
40°-50°	791.5	3.7
50°-60°	442.5	2.1
60°-70°	268.8	1.3
70°-80°	136.6	0.6
80°-90°	44.7	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°	21160.1	100.0
0°-180°	21160.1	100.0

Coefficient of Utilization



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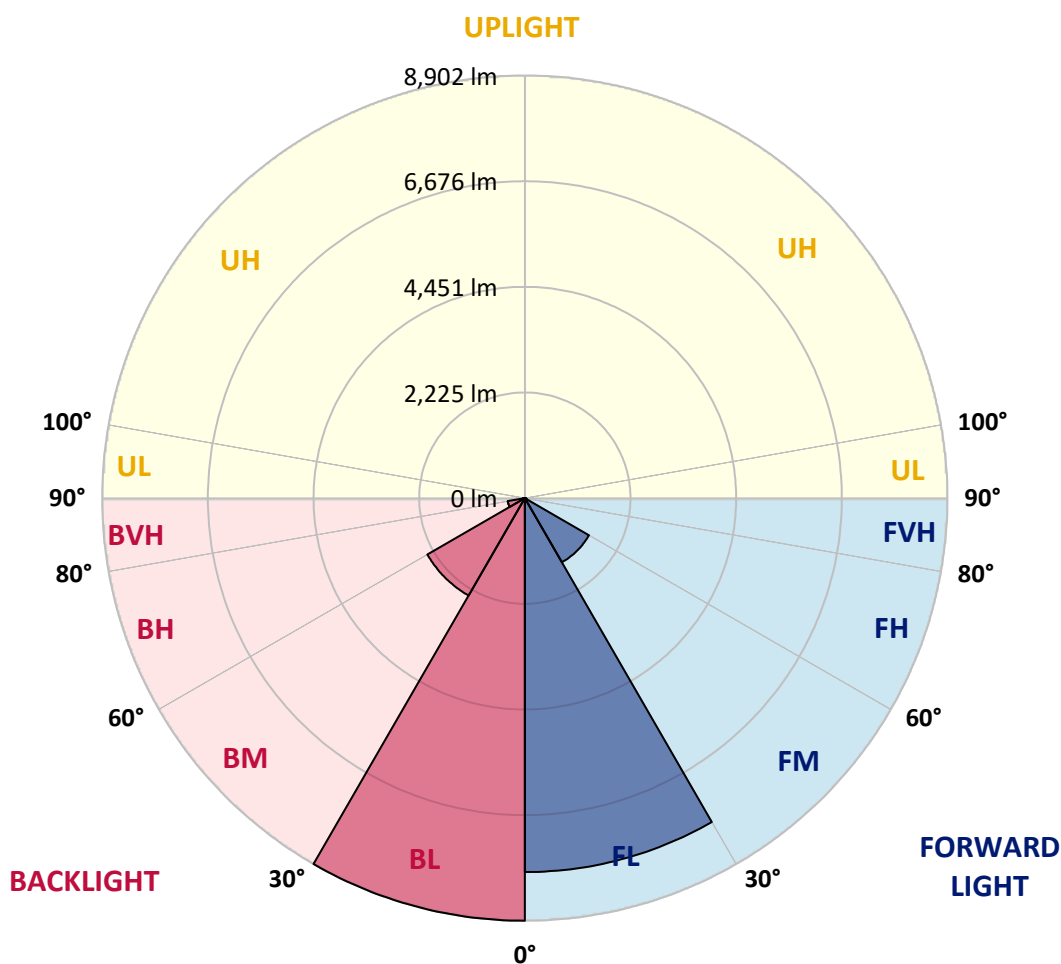
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7876.3	37.2			
FM	(30°-60°)	1560.9	7.4			
FH	(60°-80°)	37.8	0.2			G0/660
FVH	(80°-90°)	3.9	0.0			G0/10
BL	(0°-30°)	8901.6	42.1	B5		
BM	(30°-60°)	2371.2	11.2	B2/2500		
BH	(60°-80°)	367.5	1.7	B1/500		G1/500
BVH	(80°-90°)	40.8	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-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	29477.7	29477.7	29477.7	29477.7	29477.7	29477.7	29477.7	29477.7	29477.7	29477.7
2.5°	28838.4	28936.0	28740.8	28870.1	28970.2	29209.3	29228.8	29311.8	29341.0	29558.2
5°	28291.8	28367.5	28208.9	28382.1	28523.6	28735.9	28899.4	29128.8	29255.6	29511.8
7.5°	27723.3	27740.4	27708.7	27891.7	28104.0	28396.8	28599.3	28899.4	28977.5	29343.5
10°	27035.2	26910.8	26971.8	27240.2	27557.4	28006.4	28145.4	28445.6	28584.6	28958.0
12.5°	25937.2	26000.7	25925.0	26266.6	26530.2	27040.1	27186.5	27489.1	27755.0	28084.4
15°	24390.3	24353.7	24507.4	24773.4	25058.8	25463.9	25700.6	26030.0	26232.5	26574.1
17.5°	20913.3	21037.7	21672.1	22338.2	22923.8	23397.2	23680.2	23953.5	24099.9	24470.8
20°	18060.9	17904.7	17990.1	18365.9	20032.4	20757.1	21054.8	21120.7	21181.7	21474.5
22.5°	14871.8	14820.6	15106.1	15528.2	15923.5	17594.9	17999.9	17846.2	17973.1	18248.8
25°	11043.5	11302.1	11555.9	12365.9	12878.3	13698.2	14466.8	14535.1	14581.5	14754.7
27.5°	8989.0	8898.7	8893.8	9120.7	9877.1	10560.3	11214.3	11365.5	11338.7	11504.6
30°	7066.3	7037.0	6934.5	6988.2	6912.5	7520.1	7827.5	8449.7	8415.6	8420.5
32.5°	5097.2	4987.4	4945.9	5026.4	4948.3	4892.2	5160.6	5863.3	5851.1	5899.9
35°	3084.2	3069.5	3103.7	3174.4	3018.3	3013.4	3069.5	3730.8	3811.3	3889.4
37.5°	1703.1	1688.5	1715.3	1976.4	1925.2	1878.8	1893.4	2242.4	2474.2	2532.7
40°	1122.4	1120.0	1139.5	1185.8	1273.7	1256.6	1263.9	1420.1	1639.7	1690.9
42.5°	751.5	754.0	766.2	819.8	832.0	919.9	905.2	941.8	1146.8	1190.7
45°	600.2	597.8	605.1	580.7	595.4	685.6	695.4	697.8	873.5	900.4
47.5°	473.4	473.4	480.7	449.0	441.6	497.8	549.0	556.3	697.8	734.4
50°	331.8	331.8	368.4	353.8	370.9	388.0	444.1	451.4	571.0	610.0
52.5°	244.0	248.9	253.8	256.2	312.3	309.9	358.7	392.8	431.9	500.2
55°	185.4	190.3	178.1	190.3	231.8	258.6	268.4	317.2	344.0	419.7
57.5°	122.0	134.2	124.4	146.4	156.2	200.1	214.7	261.1	278.2	344.0
60°	17.1	19.5	31.7	102.5	109.8	131.8	165.9	207.4	224.5	280.6
62.5°	2.4	2.4	7.3	17.1	73.2	87.8	124.4	144.0	165.9	209.8
65°	0.0	0.0	2.4	4.9	14.6	51.2	63.4	78.1	114.7	151.3
67.5°	0.0	0.0	2.4	4.9	7.3	17.1	26.8	51.2	65.9	104.9
70°	0.0	0.0	2.4	4.9	7.3	9.8	14.6	19.5	39.0	61.0
72.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	14.6	17.1	39.0
75°	0.0	0.0	2.4	4.9	7.3	12.2	14.6	14.6	14.6	17.1
77.5°	0.0	0.0	2.4	4.9	9.8	14.6	17.1	14.6	12.2	12.2
80°	0.0	0.0	2.4	7.3	12.2	17.1	19.5	14.6	9.8	7.3
82.5°	0.0	0.0	2.4	7.3	12.2	17.1	19.5	17.1	9.8	7.3
85°	0.0	0.0	2.4	7.3	9.8	12.2	19.5	17.1	9.8	4.9
87.5°	0.0	0.0	0.0	2.4	2.4	4.9	9.8	7.3	4.9	2.4
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°
29477.7	0°	29477.7	29477.7	29477.7	29477.7	29477.7	29477.7	29477.7	29477.7	29477.7
29553.3	2.5°	29772.9	29882.7	30075.5	30129.2	30295.1	30104.8	29999.8	30009.6	29782.7
29480.1	5°	29772.9	30024.2	30361.0	30522.0	30644.0	30634.2	30607.4	30539.1	30373.2
29333.7	7.5°	29694.8	30104.8	30568.4	30783.1	30929.5	30917.3	30978.3	30868.5	30666.0
29072.6	10°	29443.5	29799.8	30370.7	30546.4	30783.1	30788.0	30712.3	30734.3	30373.2
28118.6	12.5°	28653.0	28931.1	29431.3	29631.4	29919.3	29965.7	29882.7	29851.0	29509.4
26554.6	15°	27123.1	27284.1	27786.8	27986.8	28272.3	28233.3	28316.2	28282.1	27982.0
24441.5	17.5°	24885.6	24936.8	25463.9	25632.2	25900.6	26005.6	25881.1	26039.7	25781.1
21525.7	20°	21677.0	21952.7	22545.6	22804.3	22960.4	23148.3	22984.8	23163.0	22860.4
17987.7	22.5°	18422.0	18585.5	19122.3	19495.6	19786.0	19822.6	19761.6	19886.0	19478.5
14869.4	25°	14866.9	15137.8	15562.3	16050.3	16335.8	16511.5	16352.9	16433.4	16367.5
11531.5	27.5°	11726.7	11968.2	12287.9	12651.4	13080.9	13310.2	13183.3	13320.0	12997.9
8598.6	30°	8605.9	8727.9	9089.0	9474.5	9945.5	10223.6	10235.8	10374.9	10184.6
6024.4	32.5°	6068.3	6175.6	6397.7	6653.9	7102.9	7412.7	7363.9	7383.5	7266.3
3926.0	35°	3945.5	4089.4	4248.0	4370.0	4640.9	4982.5	4955.6	4931.2	4850.7
2581.5	37.5°	2637.6	2693.8	2781.6	2891.4	3067.1	3281.8	3352.6	3264.7	3230.6
1742.2	40°	1783.6	1881.2	1939.8	2022.8	2105.7	2286.3	2335.1	2318.0	2283.8
1220.0	42.5°	1266.4	1342.0	1415.2	1495.7	1539.6	1651.9	1747.0	1720.2	1705.6
927.2	45°	961.4	1029.7	1115.1	1176.1	1220.0	1285.9	1376.2	1385.9	1364.0
744.2	47.5°	771.0	832.0	900.4	976.0	1027.2	1068.7	1146.8	1176.1	1161.4
627.1	50°	653.9	700.3	766.2	841.8	897.9	934.5	1002.8	1034.6	1024.8
524.6	52.5°	556.3	612.4	673.4	736.9	805.2	841.8	905.2	951.6	944.3
434.3	55°	461.2	534.4	597.8	661.2	739.3	775.9	832.0	893.0	880.8
368.4	57.5°	402.6	463.6	529.5	590.5	673.4	722.2	773.5	836.9	834.5
302.6	60°	336.7	397.7	470.9	522.2	610.0	678.3	724.7	790.6	795.4
229.4	62.5°	268.4	344.0	400.2	470.9	551.4	632.0	675.9	741.8	766.2
175.7	65°	200.1	283.0	346.5	417.2	492.9	583.2	622.2	688.1	712.5
126.9	67.5°	148.8	212.3	292.8	353.8	439.2	517.3	563.6	624.6	641.7
75.6	70°	112.2	163.5	244.0	297.7	385.5	449.0	495.3	541.7	563.6
51.2	72.5°	65.9	122.0	192.8	256.2	331.8	385.5	419.7	456.3	470.9
24.4	75°	46.4	92.7	151.3	212.3	268.4	312.3	344.0	375.8	390.4
12.2	77.5°	24.4	68.3	119.6	170.8	209.8	246.4	278.2	302.6	312.3
9.8	80°	14.6	48.8	97.6	134.2	161.0	192.8	224.5	241.6	239.1
7.3	82.5°	9.8	39.0	70.8	97.6	117.1	141.5	163.5	175.7	175.7
4.9	85°	7.3	26.8	48.8	75.6	78.1	97.6	102.5	114.7	117.1
4.9	87.5°	4.9	17.1	26.8	43.9	41.5	51.2	53.7	61.0	65.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
29477.7
29599.7
30426.8
30712.3
30268.2
29431.3
28077.1
25717.6
22836.0
19422.4
16326.1
13080.9
10218.7
7332.2
4780.0
3223.2
2288.7
1693.4
1361.5
1154.1
1022.4
939.4
880.8
832.0
795.4
763.7
710.0
641.7
558.8
466.0
385.5
309.9
236.7
173.2
114.7
63.4
0.0

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