

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: P637886

Luminaire Tested: **IFLD-M-SA4D-735-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637886
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-735-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26017.6 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

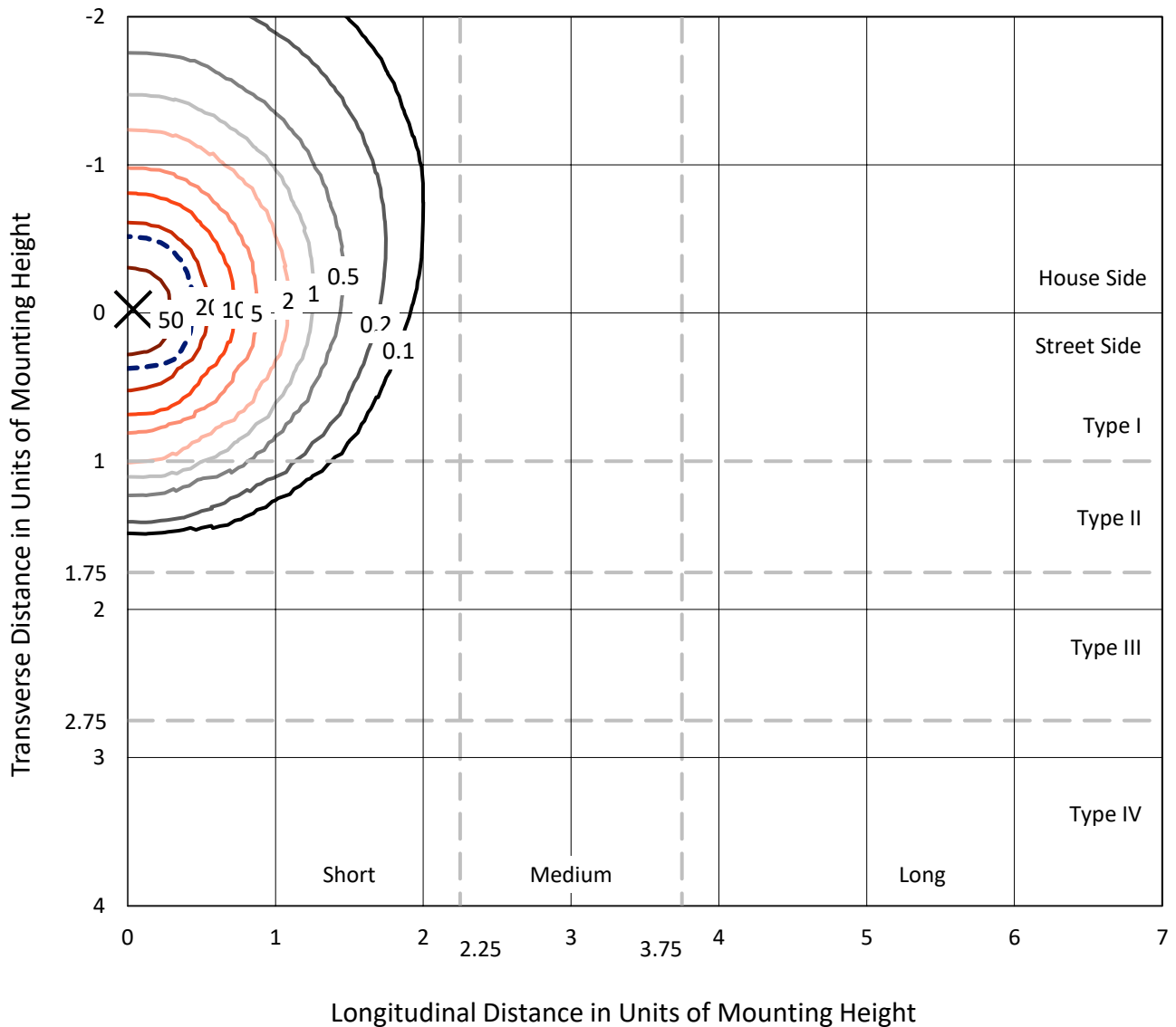
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637886
 CATALOG NUMBER: IFLD-M-SA4D-735-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

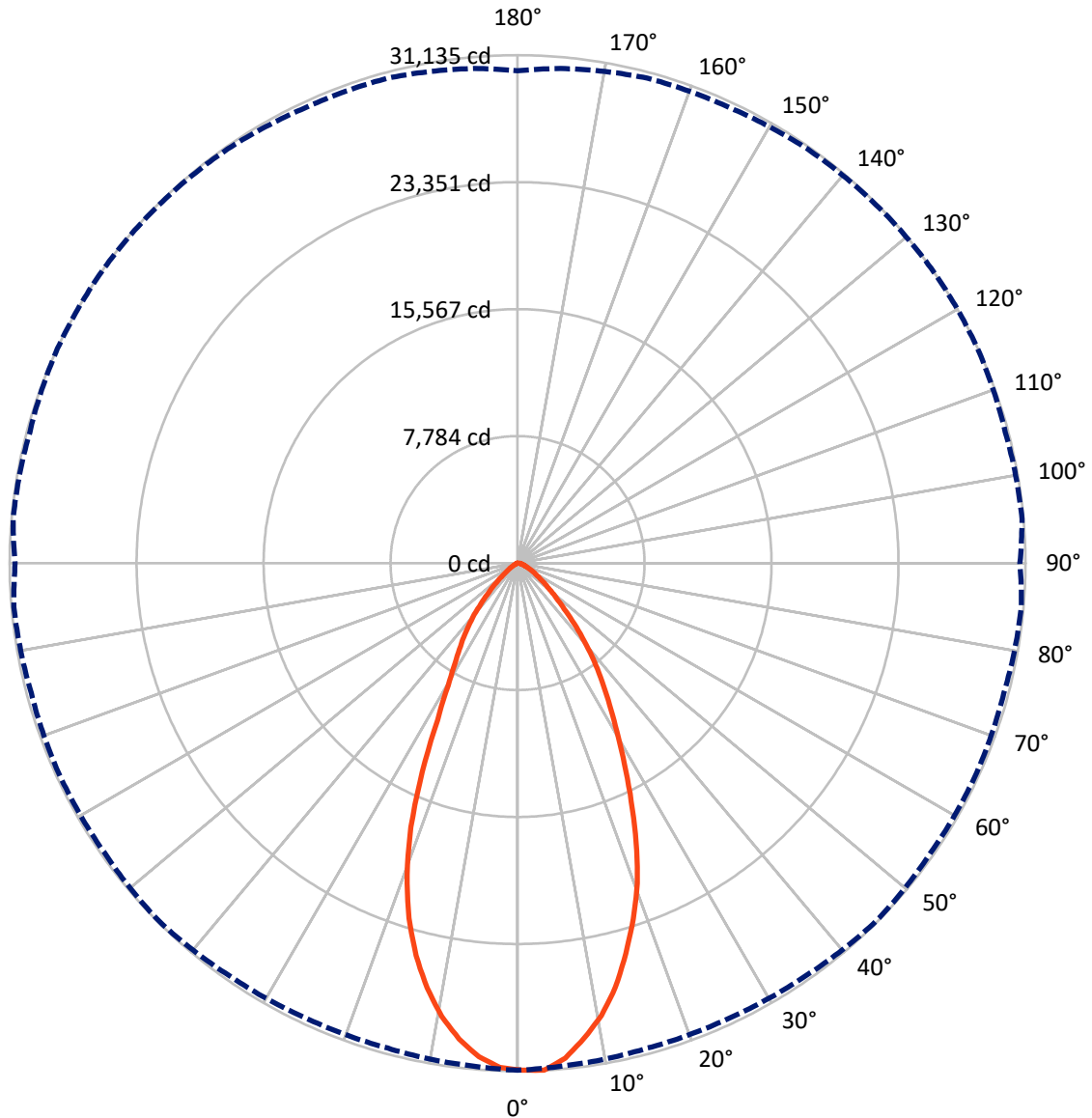
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 77.7 fc
 Type I - Short - N/A

REPORT NUMBER: P637886
CATALOG NUMBER: IFLD-M-SA4D-735-U-66-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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 CATALOG NUMBER: IFLD-M-SA4D-735-U-66-VI

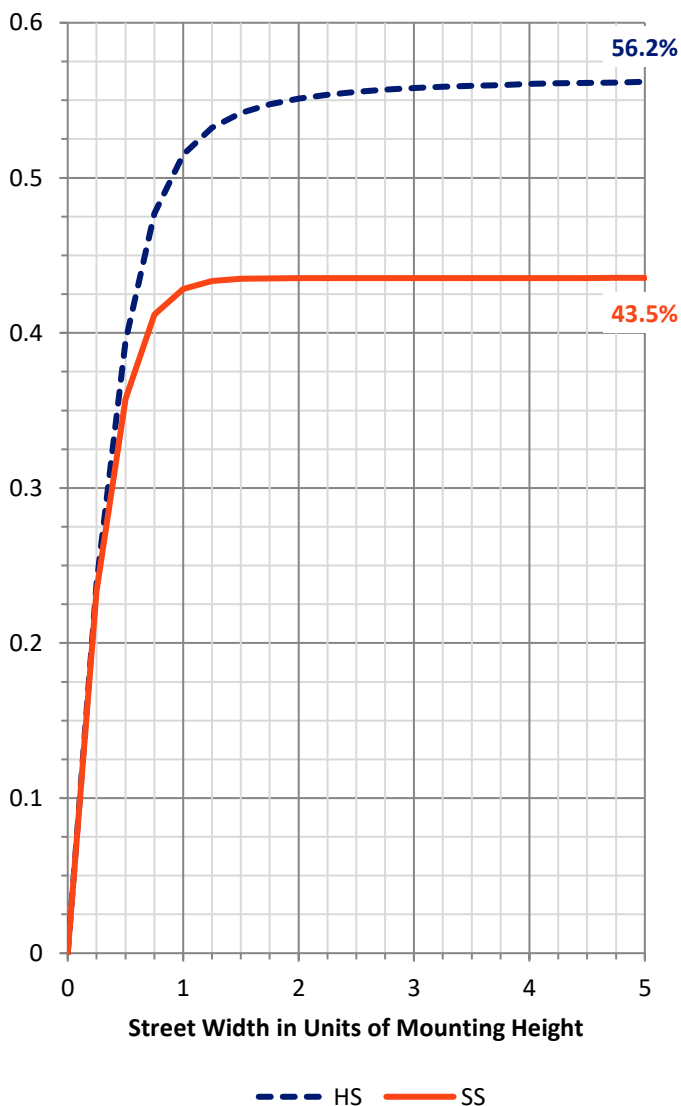
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14763.4	0.0	14763.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	11254.2	0.0	11254.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	26017.6	0.0	26017.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2822.6	10.8
10°-20°	6728.5	25.9
20°-30°	6852.8	26.3
30°-40°	5110.1	19.6
40°-50°	2669.7	10.3
50°-60°	1122.9	4.3
60°-70°	458.6	1.8
70°-80°	193.0	0.7
80°-90°	59.5	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°	26017.6	100.0
0°-180°	26017.6	100.0



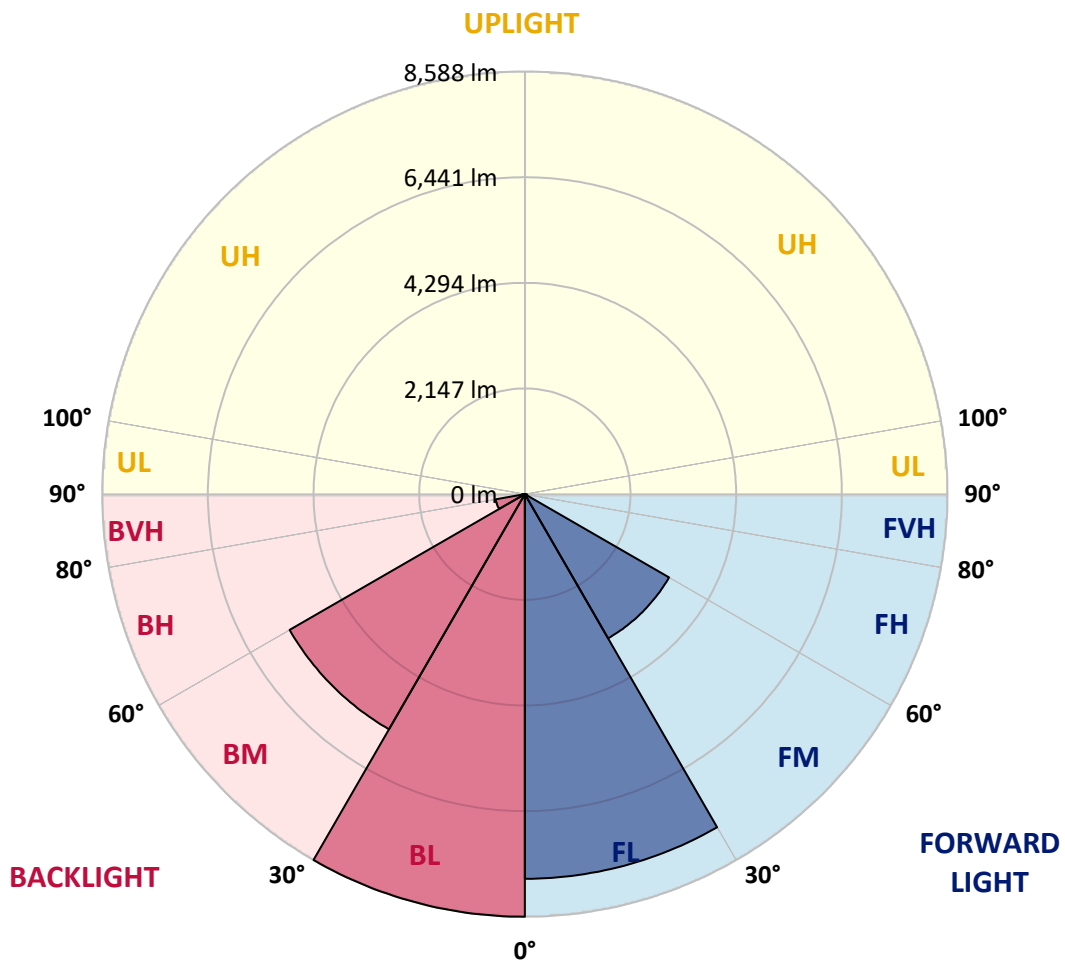
REPORT NUMBER: P637886
 CATALOG NUMBER: IFLD-M-SA4D-735-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7816.0	30.0			
FM (30°-60°)	3383.7	13.0			
FH (60°-80°)	49.0	0.2			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	8587.9	33.0	B5		
BM (30°-60°)	5519.0	21.2	B4/8500		
BH (60°-80°)	602.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	53.9	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: P637886
 CATALOG NUMBER: IFLD-M-SA4D-735-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	31084.7	31084.7	31084.7	31084.7	31084.7	31084.7	31084.7	31084.7	31084.7	31084.7
2.5°	31088.1	30961.1	30780.6	30763.9	30857.5	31061.3	30931.0	30937.7	30857.5	30994.5
5°	30600.1	30479.8	30356.2	30192.4	30329.4	30416.3	30349.5	30275.9	30172.3	30306.0
7.5°	29677.7	29610.9	29427.1	29353.5	29437.1	29534.0	29390.3	29370.2	29226.5	29400.3
10°	28267.4	28240.6	28060.1	28016.7	28090.2	28237.3	28173.8	28160.4	28070.2	28053.5
12.5°	26803.5	26699.9	26476.0	26462.6	26572.9	26793.5	26623.0	26459.3	26509.4	26552.9
15°	23033.7	22923.4	23478.1	24350.4	24808.3	24791.6	24841.7	24644.5	24584.4	24604.4
17.5°	18311.3	18124.1	18324.7	19674.9	21850.6	23113.9	22766.3	22341.8	22114.6	21964.2
20°	15804.7	15814.7	15778.0	16125.6	17482.4	20363.3	20279.8	19461.0	19163.5	19039.9
22.5°	14280.7	14223.9	14143.7	14254.0	14618.3	16309.4	17442.3	16690.4	16586.8	16449.7
25°	12786.8	12786.8	12689.9	12800.2	12903.8	12927.2	14063.5	14371.0	14170.4	14170.4
27.5°	11493.4	11426.6	11383.1	11433.3	11296.2	10637.9	10781.6	12355.7	12218.7	12135.1
30°	10210.1	10190.0	10116.5	10183.3	9675.3	8933.4	8632.6	10427.3	10571.0	10540.9
32.5°	8428.7	8508.9	8836.5	8940.1	8071.1	7472.9	7185.5	8656.0	9230.8	9207.4
35°	5728.3	5795.2	6169.5	7406.1	6690.9	6263.1	6179.5	6884.7	7830.5	7920.7
37.5°	4561.9	4551.9	4658.9	4879.4	5377.4	5273.8	5250.4	5434.2	6386.7	6426.8
40°	3759.8	3746.5	3743.1	3562.7	3439.0	4384.8	4321.3	4211.0	5036.5	5116.7
42.5°	3031.3	3044.6	3054.7	2660.3	2479.8	3382.2	3345.4	3231.8	3950.3	4043.9
45°	2379.6	2376.2	2396.3	1981.9	1931.7	2162.3	2499.9	2409.6	2981.1	3081.4
47.5°	1233.2	1276.7	1547.4	1534.0	1557.4	1534.0	1891.6	1868.2	2242.5	2403.0
50°	828.8	842.2	865.6	868.9	1226.5	1129.6	1283.4	1453.8	1570.8	1818.1
52.5°	641.7	651.7	591.5	554.8	752.0	835.5	842.2	1006.0	1096.2	1346.9
55°	357.6	401.1	431.1	434.5	414.4	618.3	614.9	745.3	815.5	982.6
57.5°	46.8	56.8	86.9	280.7	277.4	344.2	431.1	541.4	581.5	718.5
60°	3.3	6.7	10.0	43.4	183.8	200.5	294.1	337.6	404.4	504.7
62.5°	0.0	0.0	3.3	10.0	36.8	117.0	153.7	177.1	237.3	330.9
65°	0.0	0.0	3.3	6.7	13.4	43.4	60.2	96.9	140.4	203.9
67.5°	0.0	0.0	3.3	6.7	10.0	16.7	26.7	43.4	73.5	123.7
70°	0.0	0.0	3.3	6.7	10.0	13.4	20.1	26.7	40.1	66.8
72.5°	0.0	0.0	3.3	3.3	6.7	16.7	16.7	20.1	26.7	36.8
75°	0.0	0.0	3.3	6.7	10.0	16.7	16.7	16.7	20.1	23.4
77.5°	0.0	0.0	3.3	6.7	10.0	16.7	13.4	16.7	16.7	16.7
80°	0.0	0.0	3.3	6.7	10.0	16.7	20.1	16.7	13.4	13.4
82.5°	0.0	0.0	3.3	10.0	10.0	23.4	23.4	23.4	10.0	10.0
85°	0.0	0.0	6.7	10.0	16.7	26.7	26.7	20.1	10.0	6.7
87.5°	0.0	0.0	3.3	6.7	6.7	13.4	20.1	16.7	6.7	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637886

CATALOG NUMBER: IFLD-M-SA4D-735-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
31084.7	0°	31084.7	31084.7	31084.7	31084.7	31084.7	31084.7	31084.7	31084.7	31084.7
30794.0	2.5°	31041.3	30957.7	31114.8	31134.9	31068.0	30984.5	30790.6	30773.9	30436.4
30112.2	5°	30453.1	30316.1	30416.3	30483.2	30459.8	30369.5	30289.3	30215.8	29911.7
29006.0	7.5°	29356.9	29306.7	29353.5	29403.7	29500.6	29403.7	29370.2	29293.4	28992.6
27916.4	10°	28140.4	28046.8	28223.9	28200.5	28173.8	28147.0	28006.7	28020.0	27665.8
26432.6	12.5°	26646.4	26489.4	26659.8	26679.9	26659.8	26566.2	26409.2	26476.0	26151.8
24427.3	15°	24637.9	24621.1	24744.8	24825.0	24881.8	24781.6	24728.1	24761.5	24567.7
21847.2	17.5°	22171.4	22388.6	22793.0	22930.0	22933.4	23037.0	23006.9	22966.8	22823.1
18989.7	20°	19270.5	19688.2	20309.9	20948.2	21132.0	21045.1	21005.0	21078.5	20864.6
16306.0	22.5°	16593.5	16951.1	17672.9	18605.4	19143.5	19196.9	19186.9	19123.4	19039.9
14157.1	25°	14320.8	14638.3	15330.1	16182.4	17215.1	17368.8	17375.5	17355.4	17281.9
12208.6	27.5°	12402.5	12786.8	13167.8	13929.8	15029.4	15664.4	15584.1	15560.7	15534.0
10564.3	30°	10664.6	11149.2	11506.8	11981.4	12967.3	13826.2	13909.8	13869.7	13806.2
9204.1	32.5°	9287.7	9575.1	10029.6	10350.4	11059.0	12031.5	12352.3	12322.3	12265.5
7977.6	35°	8091.2	8204.8	8562.4	8920.0	9391.3	10333.7	10808.3	10741.5	10731.4
6500.4	37.5°	6664.1	7045.1	7242.3	7603.2	7934.1	8666.0	9321.1	9291.0	9294.3
5227.0	40°	5380.8	5601.3	5992.4	6296.5	6600.6	7135.4	7863.9	7884.0	7877.3
4047.3	42.5°	4130.8	4344.7	4755.8	5086.7	5357.4	5688.2	6383.4	6406.8	6436.9
3151.6	45°	3225.1	3362.1	3662.9	4007.2	4294.6	4495.1	5023.2	5173.5	5176.9
2443.1	47.5°	2503.2	2660.3	2874.2	3205.1	3485.8	3629.5	4013.8	4217.7	4207.7
1874.9	50°	1965.1	2108.9	2282.6	2543.3	2847.5	2961.1	3245.2	3445.7	3435.7
1413.7	52.5°	1503.9	1687.8	1841.5	2042.0	2339.5	2436.4	2640.2	2870.9	2837.4
1036.0	55°	1139.7	1326.8	1470.5	1637.6	1908.3	2032.0	2172.4	2356.2	2362.9
802.1	57.5°	858.9	1052.8	1183.1	1353.5	1557.4	1694.4	1801.4	1998.6	1995.2
548.1	60°	614.9	782.0	939.1	1116.3	1273.3	1430.4	1503.9	1691.1	1697.8
387.7	62.5°	444.5	601.6	752.0	905.7	1046.1	1199.8	1266.7	1413.7	1433.8
254.0	65°	310.8	421.1	594.9	711.9	868.9	982.6	1069.5	1196.5	1219.9
150.4	67.5°	200.5	304.1	471.2	574.8	718.5	815.5	905.7	1006.0	1036.0
96.9	70°	120.3	230.6	350.9	461.2	591.5	678.4	765.3	852.2	868.9
46.8	72.5°	76.9	160.4	254.0	374.3	474.6	568.2	645.0	708.5	658.4
30.1	75°	43.4	110.3	200.5	294.1	384.3	474.6	538.1	571.5	457.9
20.1	77.5°	26.7	80.2	163.8	237.3	297.4	381.0	421.1	441.2	327.5
13.4	80°	16.7	60.2	137.0	193.8	193.8	280.7	327.5	344.2	237.3
10.0	82.5°	13.4	43.4	106.9	147.1	130.3	210.6	257.3	260.7	167.1
6.7	85°	10.0	33.4	66.8	96.9	90.2	147.1	150.4	167.1	110.3
6.7	87.5°	6.7	20.1	40.1	56.8	50.1	70.2	80.2	90.2	60.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
31084.7
30172.3
29667.7
28929.1
27545.5
26058.2
24333.7
22609.2
20710.9
18879.4
17034.6
15376.9
13725.9
12115.1
10621.1
9187.4
7760.3
6336.6
5090.0
4170.9
3435.7
2840.8
2362.9
1988.5
1681.1
1427.1
1213.2
1032.7
855.6
611.6
434.5
307.5
220.6
153.7
100.3
53.5
0.0

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