

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: P636533

Luminaire Tested: **IFLD-L-SA8D-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636533
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33333.7 lumens
Efficiency: N/A
Efficacy: 68.3 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): 488.3
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



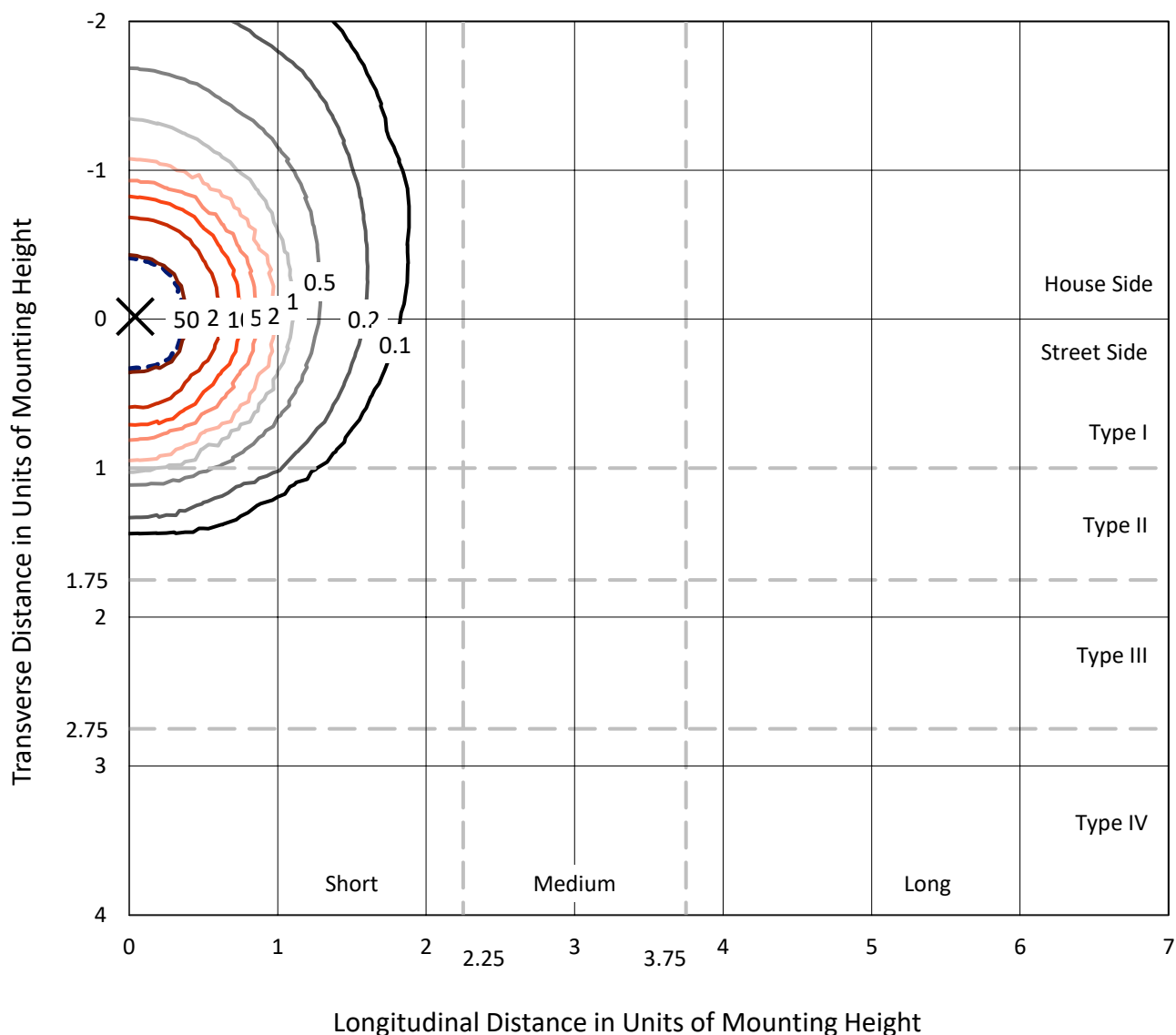
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

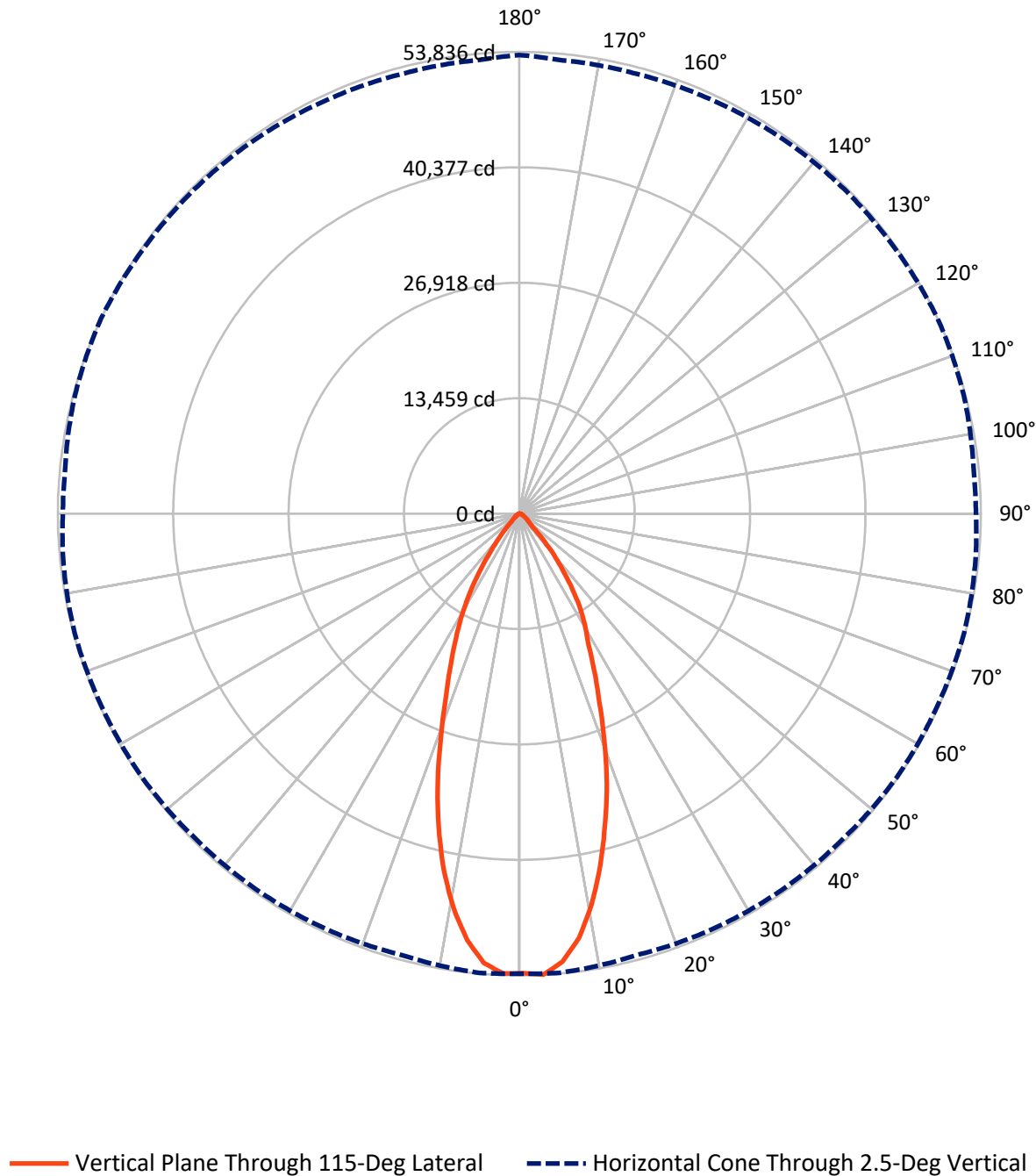


Based on 20 foot mounting height. Maximum calculated value = 134 fc

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	18396.3	0.0	18396.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	14937.4	0.0	14937.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	33333.7	0.0	33333.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4806.1	14.4
10°-20°	10157.5	30.5
20°-30°	9167.8	27.5
30°-40°	6066.9	18.2
40°-50°	1817.4	5.5
50°-60°	729.0	2.2
60°-70°	377.5	1.1
70°-80°	163.9	0.5
80°-90°	47.7	0.1
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°	33333.7	100.0
0°-180°	33333.7	100.0

Coefficient of Utilization



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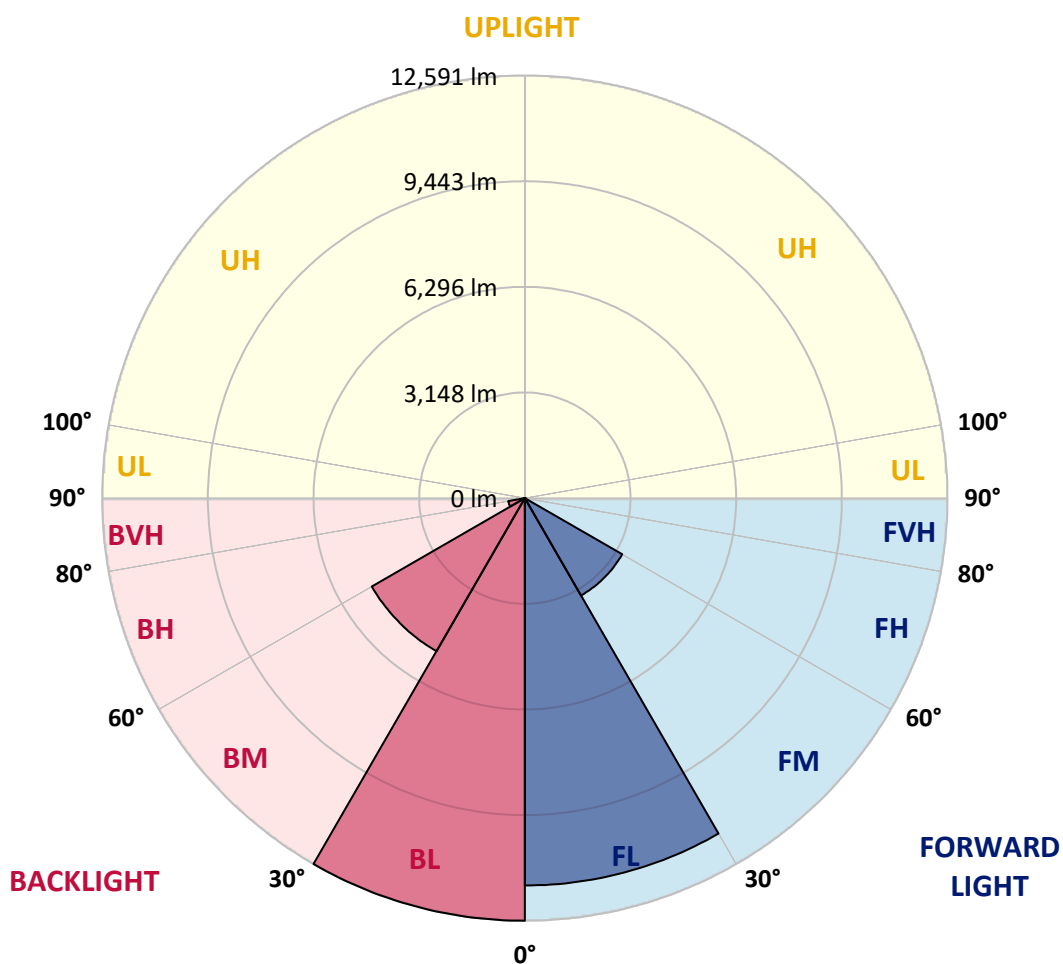
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11540.4	34.6			
FM	(30°-60°)	3348.7	10.0			
FH	(60°-80°)	41.5	0.1			G0/660
FVH	(80°-90°)	6.9	0.0			G0/10
BL	(0°-30°)	12591.0	37.8	B5		
BM	(30°-60°)	5264.6	15.8	B4/8500		
BH	(60°-80°)	499.9	1.5	B1/500		G1/500
BVH	(80°-90°)	40.8	0.1			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°	53584.0	53584.0	53584.0	53584.0	53584.0	53584.0	53584.0	53584.0	53584.0	53584.0
2.5°	53652.2	53747.6	53270.4	53434.0	53502.2	53522.7	53693.1	53665.8	53713.5	53461.3
5°	52943.2	52759.1	52404.6	52411.4	52391.0	52200.1	52588.7	52561.4	52479.6	52179.7
7.5°	50529.9	50795.7	50127.6	50114.0	50100.4	49868.6	50379.9	50066.3	50134.5	49705.0
10°	46998.5	47032.6	46439.5	46384.9	46432.7	46132.7	46725.8	46603.1	46732.6	46282.7
12.5°	42669.5	42860.4	42205.9	42110.5	42301.4	41878.7	42355.9	42417.3	42226.4	42165.0
15°	33466.1	33970.6	35211.4	37106.6	37597.4	37242.9	37624.7	37617.9	37699.7	37236.1
17.5°	25496.7	25544.4	25251.3	26158.0	31407.3	33111.6	33193.5	32545.8	32055.0	31884.5
20°	22258.5	22422.1	22156.2	22231.2	23069.8	28066.8	28257.7	27282.9	26444.3	26376.2
22.5°	19681.6	19783.8	19592.9	19654.3	19695.2	20281.5	23601.5	22742.5	22340.3	22033.5
25°	17500.0	17500.0	17397.8	17418.2	17377.3	16511.5	18215.8	19197.5	18965.7	18856.7
27.5°	15509.4	15536.6	15407.1	15482.1	14984.4	13586.9	13382.4	16279.7	16034.3	15836.6
30°	13621.0	13709.6	13586.9	13627.8	12543.8	11398.5	10812.2	13580.1	13886.8	13832.3
32.5°	10253.2	10655.4	11644.0	11684.9	10212.3	9332.9	9073.8	10900.9	12066.6	11964.4
35°	6353.7	6333.3	6374.2	8337.6	7833.1	7233.2	7328.6	8235.3	9551.0	9503.3
37.5°	4847.1	4840.3	4915.3	4717.6	5133.4	5487.9	5562.9	5562.9	6974.1	6980.9
40°	3674.5	3647.3	3640.4	3326.8	2788.3	4117.7	3994.9	3892.7	4847.1	4949.4
42.5°	2345.2	2427.0	2365.6	2024.7	1820.2	2249.7	2508.8	2427.0	2992.8	3067.8
45°	1308.9	1308.9	1254.4	1063.5	1056.7	1138.5	1431.6	1336.2	1533.9	1636.2
47.5°	634.0	620.4	681.7	838.5	872.6	845.3	1022.6	1063.5	1158.9	1254.4
50°	511.3	511.3	484.0	436.3	722.6	695.4	756.7	811.3	865.8	947.6
52.5°	429.5	429.5	395.4	368.1	415.9	531.7	538.6	640.8	634.0	749.9
55°	218.2	225.0	320.4	320.4	279.5	436.3	443.1	518.1	531.7	627.2
57.5°	20.5	27.3	40.9	197.7	218.2	238.6	334.0	381.8	443.1	484.0
60°	6.8	6.8	13.6	27.3	129.5	163.6	211.3	252.2	306.8	402.2
62.5°	0.0	0.0	6.8	13.6	27.3	102.3	115.9	129.5	184.1	252.2
65°	0.0	0.0	6.8	6.8	13.6	34.1	47.7	81.8	115.9	156.8
67.5°	0.0	0.0	6.8	6.8	13.6	20.5	27.3	40.9	54.5	102.3
70°	0.0	0.0	6.8	6.8	13.6	20.5	20.5	27.3	34.1	47.7
72.5°	0.0	0.0	6.8	6.8	13.6	27.3	20.5	20.5	27.3	34.1
75°	0.0	0.0	6.8	6.8	13.6	20.5	20.5	20.5	20.5	20.5
77.5°	0.0	0.0	6.8	6.8	13.6	20.5	20.5	20.5	13.6	13.6
80°	0.0	0.0	6.8	6.8	13.6	20.5	27.3	27.3	13.6	13.6
82.5°	0.0	0.0	6.8	13.6	13.6	34.1	40.9	34.1	13.6	6.8
85°	0.0	0.0	6.8	6.8	20.5	34.1	34.1	20.5	13.6	6.8
87.5°	0.0	0.0	0.0	6.8	6.8	13.6	20.5	20.5	6.8	6.8
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°
53584.0	0°	53584.0	53584.0	53584.0	53584.0	53584.0	53584.0	53584.0	53584.0	53584.0
53256.8	2.5°	53229.5	53645.4	53836.3	53638.6	53543.1	53406.8	53209.1	53072.7	53100.0
52016.0	5°	51900.1	52336.4	52486.4	52316.0	52172.8	52097.8	52063.8	52131.9	52309.2
49520.9	7.5°	49507.3	49786.8	49950.4	49868.6	49670.9	49895.9	49957.2	49916.3	50175.4
46146.3	10°	46160.0	46466.7	46316.8	46350.9	46119.1	46235.0	46200.9	46350.9	46609.9
42117.3	12.5°	41844.6	42137.8	42021.9	42001.4	41756.0	41974.1	41837.8	42001.4	42342.3
37045.2	15°	37311.1	37495.2	37420.2	37304.3	37086.1	37161.1	37583.8	37556.5	37706.5
31782.3	17.5°	31645.9	32532.2	33016.2	33118.5	32941.2	33091.2	33391.2	33316.2	33657.0
26233.0	20°	26185.3	27078.3	28271.4	29239.4	29259.9	29280.3	29471.2	29518.9	29812.1
22040.3	22.5°	21944.9	22578.9	23860.6	25142.2	26028.5	26212.5	26192.1	26260.3	26342.1
18706.7	25°	18659.0	19122.5	20295.1	21181.4	22735.7	23253.8	23403.8	23253.8	23301.5
15768.4	27.5°	15945.7	16654.7	17043.3	17990.9	19511.1	20711.0	20663.3	20574.6	20588.3
13723.2	30°	13716.4	14480.0	15052.6	15338.9	16484.2	18215.8	18393.1	18140.8	18147.7
11916.6	32.5°	11841.7	12080.3	12925.6	13157.4	13893.7	15468.5	16075.2	15884.3	15850.2
9530.6	35°	9810.1	9939.6	10328.2	10785.0	11221.3	12414.3	13416.5	13239.2	13327.8
7008.2	37.5°	6980.9	7512.7	7887.6	8262.6	8576.2	9326.1	10532.7	10369.1	10457.7
4963.0	40°	4922.1	5160.7	5808.3	5972.0	6435.5	6783.2	7805.8	7751.3	7860.4
3081.4	42.5°	3026.9	3197.3	3524.5	3681.3	3994.9	4192.6	4792.6	4860.7	5003.9
1704.3	45°	1718.0	1793.0	2017.9	2188.4	2420.1	2502.0	2713.3	2808.7	2890.5
1322.6	47.5°	1308.9	1390.7	1540.7	1690.7	1881.6	1949.7	2099.7	2242.9	2317.9
1022.6	50°	1070.3	1145.3	1302.1	1424.8	1615.7	1677.1	1799.8	1956.6	2052.0
777.2	52.5°	811.3	920.3	1111.2	1240.7	1438.5	1513.4	1629.3	1786.1	1874.8
640.8	55°	668.1	749.9	920.3	1097.6	1281.7	1383.9	1458.9	1649.8	1745.2
524.9	57.5°	572.7	634.0	743.1	954.4	1111.2	1261.2	1322.6	1499.8	1595.2
415.9	60°	436.3	531.7	627.2	790.8	968.1	1124.9	1193.0	1349.8	1424.8
300.0	62.5°	361.3	422.7	545.4	634.0	831.7	995.3	1063.5	1206.7	1261.2
197.7	65°	252.2	340.9	456.8	511.3	695.4	852.2	947.6	1056.7	1111.2
115.9	67.5°	150.0	252.2	361.3	436.3	565.8	722.6	824.9	927.2	974.9
68.2	70°	95.4	197.7	286.3	368.1	443.1	593.1	715.8	804.4	784.0
40.9	72.5°	54.5	122.7	211.3	300.0	368.1	497.7	613.6	681.7	484.0
27.3	75°	34.1	88.6	177.2	245.4	300.0	395.4	504.5	518.1	300.0
13.6	77.5°	27.3	68.2	136.3	197.7	204.5	293.1	354.5	402.2	225.0
13.6	80°	13.6	54.5	115.9	163.6	129.5	204.5	272.7	313.6	177.2
6.8	82.5°	13.6	34.1	88.6	115.9	95.4	156.8	197.7	225.0	150.0
6.8	85°	6.8	27.3	47.7	68.2	68.2	102.3	88.6	109.1	95.4
6.8	87.5°	6.8	13.6	27.3	34.1	27.3	40.9	47.7	47.7	40.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
53584.0
53468.1
52677.3
50434.4
46712.2
42403.6
37740.6
33602.5
29750.7
26192.1
23226.6
20608.7
18154.5
15932.0
13409.6
10532.7
7901.3
5167.5
2883.7
2352.0
2092.9
1936.1
1772.5
1636.2
1438.5
1268.0
1111.2
968.1
722.6
429.5
279.5
225.0
184.1
163.6
95.4
34.1
0.0

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