

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: P636523

Luminaire Tested: **IFLD-M-SA4D-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636523
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18705.9 lumens
Efficiency: N/A
Efficacy: 74.9 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): 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



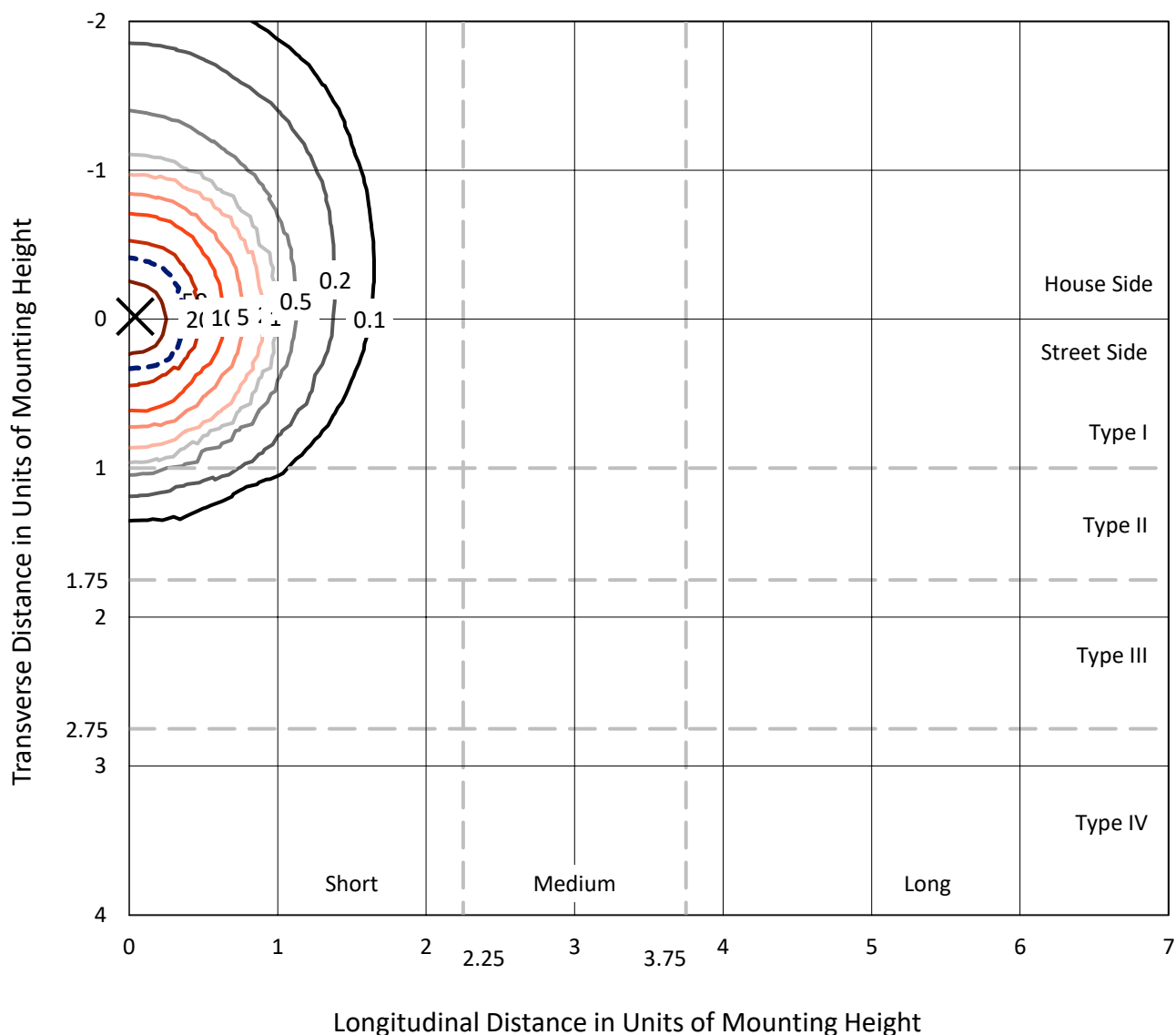
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

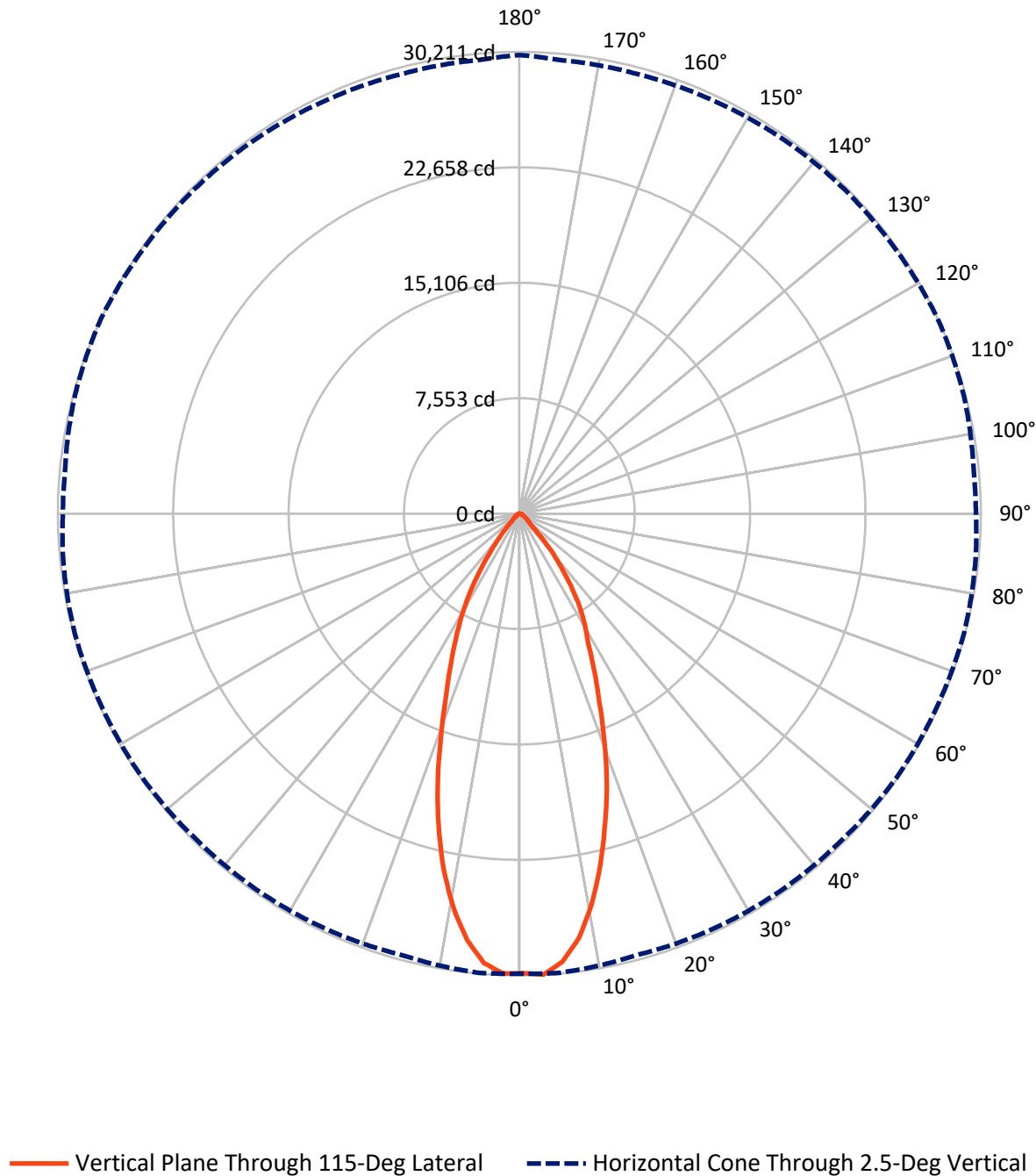


Based on 20 foot mounting height. Maximum calculated value = 75.2 fc

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	10323.5	0.0	10323.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8382.4	0.0	8382.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	18705.9	0.0	18705.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2697.0	14.4
10°-20°	5700.1	30.5
20°-30°	5144.7	27.5
30°-40°	3404.5	18.2
40°-50°	1019.9	5.5
50°-60°	409.1	2.2
60°-70°	211.8	1.1
70°-80°	92.0	0.5
80°-90°	26.8	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°	18705.9	100.0
0°-180°	18705.9	100.0

Coefficient of Utilization



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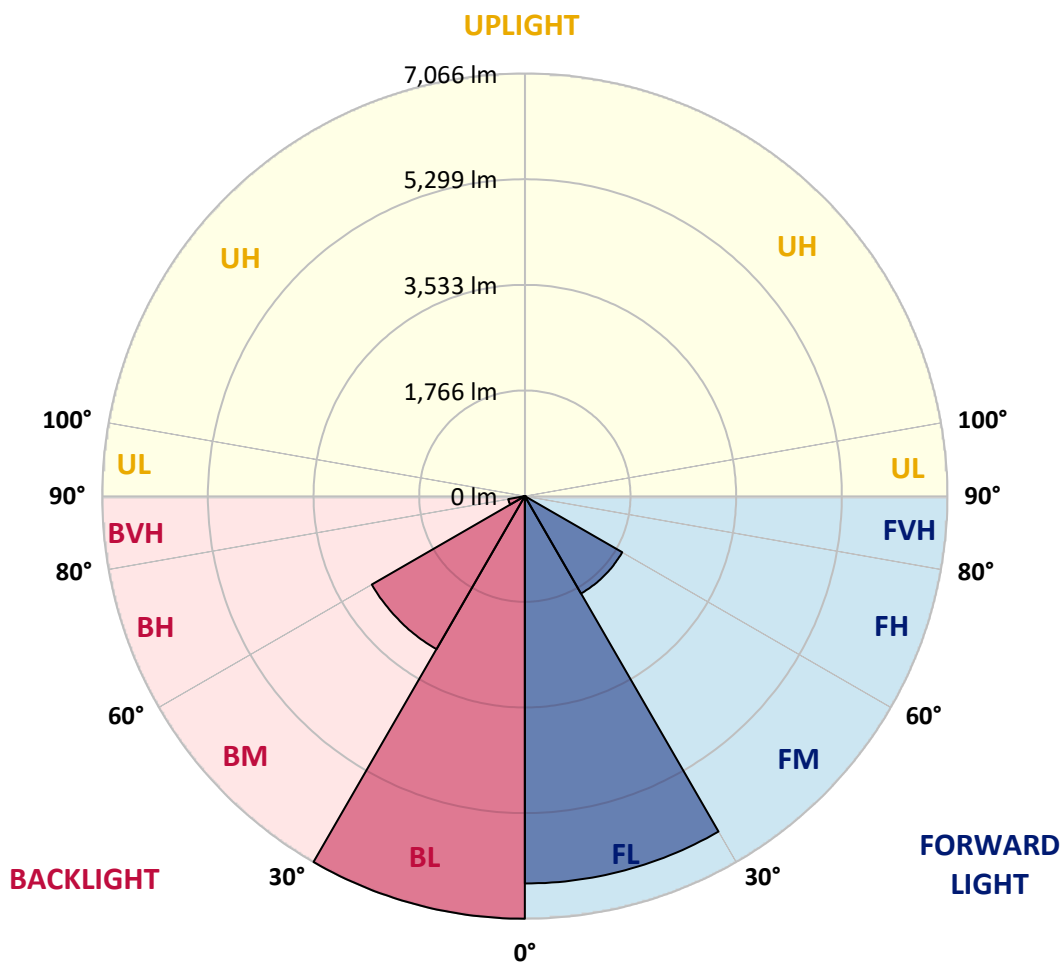
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6476.1	34.6			
FM	(30°-60°)	1879.2	10.0			
FH	(60°-80°)	23.3	0.1			G0/660
FVH	(80°-90°)	3.9	0.0			G0/10
BL	(0°-30°)	7065.7	37.8	B5		
BM	(30°-60°)	2954.3	15.8	B3/5000		
BH	(60°-80°)	280.5	1.5	B1/500		G1/500
BVH	(80°-90°)	22.9	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°	30069.8	30069.8	30069.8	30069.8	30069.8	30069.8	30069.8	30069.8	30069.8	30069.8
2.5°	30108.0	30161.6	29893.8	29985.6	30023.9	30035.3	30131.0	30115.7	30142.4	30000.9
5°	29710.1	29606.9	29407.9	29411.7	29400.3	29293.2	29511.2	29495.9	29450.0	29281.7
7.5°	28355.9	28505.1	28130.1	28122.5	28114.8	27984.8	28271.7	28095.7	28134.0	27893.0
10°	26374.2	26393.3	26060.5	26029.9	26056.6	25888.3	26221.1	26152.3	26225.0	25972.5
12.5°	23944.9	24052.0	23684.7	23631.2	23738.3	23501.1	23768.9	23803.3	23696.2	23661.8
15°	18780.2	19063.3	19759.6	20823.1	21098.6	20899.6	21113.9	21110.0	21156.0	20895.8
17.5°	14308.0	14334.8	14170.3	14679.1	17624.9	18581.3	18627.2	18263.7	17988.3	17892.7
20°	12490.8	12582.6	12433.4	12475.5	12946.1	15750.3	15857.4	15310.3	14839.8	14801.5
22.5°	11044.7	11102.1	10995.0	11029.4	11052.4	11381.4	13244.5	12762.4	12536.7	12364.6
25°	9820.5	9820.5	9763.1	9774.6	9751.6	9265.8	10222.2	10773.1	10643.0	10581.8
27.5°	8703.4	8718.7	8646.0	8688.1	8408.8	7624.6	7509.8	9135.7	8998.0	8887.0
30°	7643.7	7693.4	7624.6	7647.5	7039.2	6396.5	6067.5	7620.7	7792.9	7762.3
32.5°	5753.8	5979.5	6534.2	6557.2	5730.9	5237.3	5092.0	6117.2	6771.4	6714.0
35°	3565.5	3554.0	3577.0	4678.8	4395.7	4059.0	4112.6	4621.4	5359.8	5333.0
37.5°	2720.1	2716.2	2758.3	2647.4	2880.7	3079.7	3121.7	3121.7	3913.7	3917.5
40°	2062.0	2046.7	2042.9	1866.9	1564.7	2310.7	2241.8	2184.5	2720.1	2777.4
42.5°	1316.0	1361.9	1327.5	1136.2	1021.5	1262.5	1407.8	1361.9	1679.5	1721.6
45°	734.5	734.5	703.9	596.8	593.0	638.9	803.4	749.8	860.8	918.2
47.5°	355.8	348.1	382.6	470.6	489.7	474.4	573.9	596.8	650.4	703.9
50°	286.9	286.9	271.6	244.8	405.5	390.2	424.6	455.3	485.9	531.8
52.5°	241.0	241.0	221.9	206.6	233.4	298.4	302.2	359.6	355.8	420.8
55°	122.4	126.2	179.8	179.8	156.9	244.8	248.7	290.8	298.4	352.0
57.5°	11.5	15.3	23.0	110.9	122.4	133.9	187.5	214.2	248.7	271.6
60°	3.8	3.8	7.7	15.3	72.7	91.8	118.6	141.5	172.2	225.7
62.5°	0.0	0.0	3.8	7.7	15.3	57.4	65.0	72.7	103.3	141.5
65°	0.0	0.0	3.8	3.8	7.7	19.1	26.8	45.9	65.0	88.0
67.5°	0.0	0.0	3.8	3.8	7.7	11.5	15.3	23.0	30.6	57.4
70°	0.0	0.0	3.8	3.8	7.7	11.5	11.5	15.3	19.1	26.8
72.5°	0.0	0.0	3.8	3.8	7.7	15.3	11.5	11.5	15.3	19.1
75°	0.0	0.0	3.8	3.8	7.7	11.5	11.5	11.5	11.5	11.5
77.5°	0.0	0.0	3.8	3.8	7.7	11.5	11.5	11.5	7.7	7.7
80°	0.0	0.0	3.8	3.8	7.7	11.5	15.3	15.3	7.7	7.7
82.5°	0.0	0.0	3.8	7.7	7.7	19.1	23.0	19.1	7.7	3.8
85°	0.0	0.0	3.8	3.8	11.5	19.1	19.1	11.5	7.7	3.8
87.5°	0.0	0.0	0.0	3.8	3.8	7.7	11.5	11.5	3.8	3.8
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°
30069.8	0°	30069.8	30069.8	30069.8	30069.8	30069.8	30069.8	30069.8	30069.8	30069.8
29886.1	2.5°	29870.8	30104.2	30211.3	30100.4	30046.8	29970.3	29859.3	29782.8	29798.1
29189.9	5°	29124.8	29369.7	29453.8	29358.2	29277.8	29235.8	29216.6	29254.9	29354.4
27789.7	7.5°	27782.0	27938.9	28030.7	27984.8	27873.8	28000.1	28034.5	28011.6	28156.9
25896.0	10°	25903.6	26075.8	25991.6	26010.7	25880.7	25945.7	25926.6	26010.7	26156.1
23635.0	12.5°	23482.0	23646.5	23581.4	23569.9	23432.2	23554.6	23478.1	23569.9	23761.2
20788.7	15°	20937.9	21041.2	20999.1	20934.1	20811.6	20853.7	21090.9	21075.6	21159.8
17835.3	17.5°	17758.8	18256.1	18527.7	18585.1	18485.6	18569.8	18738.1	18696.0	18887.3
14721.2	20°	14694.4	15195.6	15865.1	16408.3	16419.8	16431.2	16538.4	16565.1	16729.7
12368.4	22.5°	12314.8	12670.6	13389.8	14109.1	14606.4	14709.7	14698.2	14736.5	14782.4
10497.6	25°	10470.9	10731.0	11389.0	11886.4	12758.6	13049.4	13133.5	13049.4	13076.1
8848.8	27.5°	8948.2	9346.1	9564.2	10095.9	10949.1	11622.4	11595.6	11545.9	11553.5
7701.1	30°	7697.2	8125.7	8447.1	8607.8	9250.5	10222.2	10321.7	10180.1	10183.9
6687.3	32.5°	6645.2	6779.1	7253.5	7383.5	7796.7	8680.4	9020.9	8913.8	8894.7
5348.3	35°	5505.1	5577.8	5795.9	6052.2	6297.1	6966.5	7528.9	7429.4	7479.2
3932.8	37.5°	3917.5	4215.9	4426.3	4636.7	4812.7	5233.5	5910.7	5818.8	5868.6
2785.1	40°	2762.1	2896.0	3259.5	3351.3	3611.4	3806.5	4380.4	4349.8	4411.0
1729.2	42.5°	1698.6	1794.2	1977.9	2065.9	2241.8	2352.8	2689.4	2727.7	2808.0
956.4	45°	964.1	1006.2	1132.4	1228.0	1358.1	1404.0	1522.6	1576.2	1622.1
742.2	47.5°	734.5	780.4	864.6	948.8	1055.9	1094.1	1178.3	1258.6	1300.7
573.9	50°	600.6	642.7	730.7	799.6	906.7	941.1	1010.0	1098.0	1151.5
436.1	52.5°	455.3	516.5	623.6	696.3	807.2	849.3	914.3	1002.3	1052.1
359.6	55°	374.9	420.8	516.5	615.9	719.2	776.6	818.7	925.8	979.4
294.6	57.5°	321.4	355.8	417.0	535.6	623.6	707.7	742.2	841.6	895.2
233.4	60°	244.8	298.4	352.0	443.8	543.2	631.2	669.5	757.5	799.6
168.3	62.5°	202.8	237.2	306.1	355.8	466.7	558.5	596.8	677.1	707.7
110.9	65°	141.5	191.3	256.3	286.9	390.2	478.2	531.8	593.0	623.6
65.0	67.5°	84.2	141.5	202.8	244.8	317.5	405.5	462.9	520.3	547.1
38.3	70°	53.6	110.9	160.7	206.6	248.7	332.8	401.7	451.4	440.0
23.0	72.5°	30.6	68.9	118.6	168.3	206.6	279.3	344.3	382.6	271.6
15.3	75°	19.1	49.7	99.5	137.7	168.3	221.9	283.1	290.8	168.3
7.7	77.5°	15.3	38.3	76.5	110.9	114.8	164.5	198.9	225.7	126.2
7.7	80°	7.7	30.6	65.0	91.8	72.7	114.8	153.0	176.0	99.5
3.8	82.5°	7.7	19.1	49.7	65.0	53.6	88.0	110.9	126.2	84.2
3.8	85°	3.8	15.3	26.8	38.3	38.3	57.4	49.7	61.2	53.6
3.8	87.5°	3.8	7.7	15.3	19.1	15.3	23.0	26.8	26.8	23.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
30069.8
30004.7
29560.9
28302.3
26213.5
23795.7
21178.9
18856.7
16695.2
14698.2
13034.1
11565.0
10187.8
8940.6
7525.1
5910.7
4434.0
2899.9
1618.3
1319.9
1174.5
1086.5
994.7
918.2
807.2
711.6
623.6
543.2
405.5
241.0
156.9
126.2
103.3
91.8
53.6
19.1
0.0

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