

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: P636509

Luminaire Tested: **IFLD-S-SA2E-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636509
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10822.3 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 156.2
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



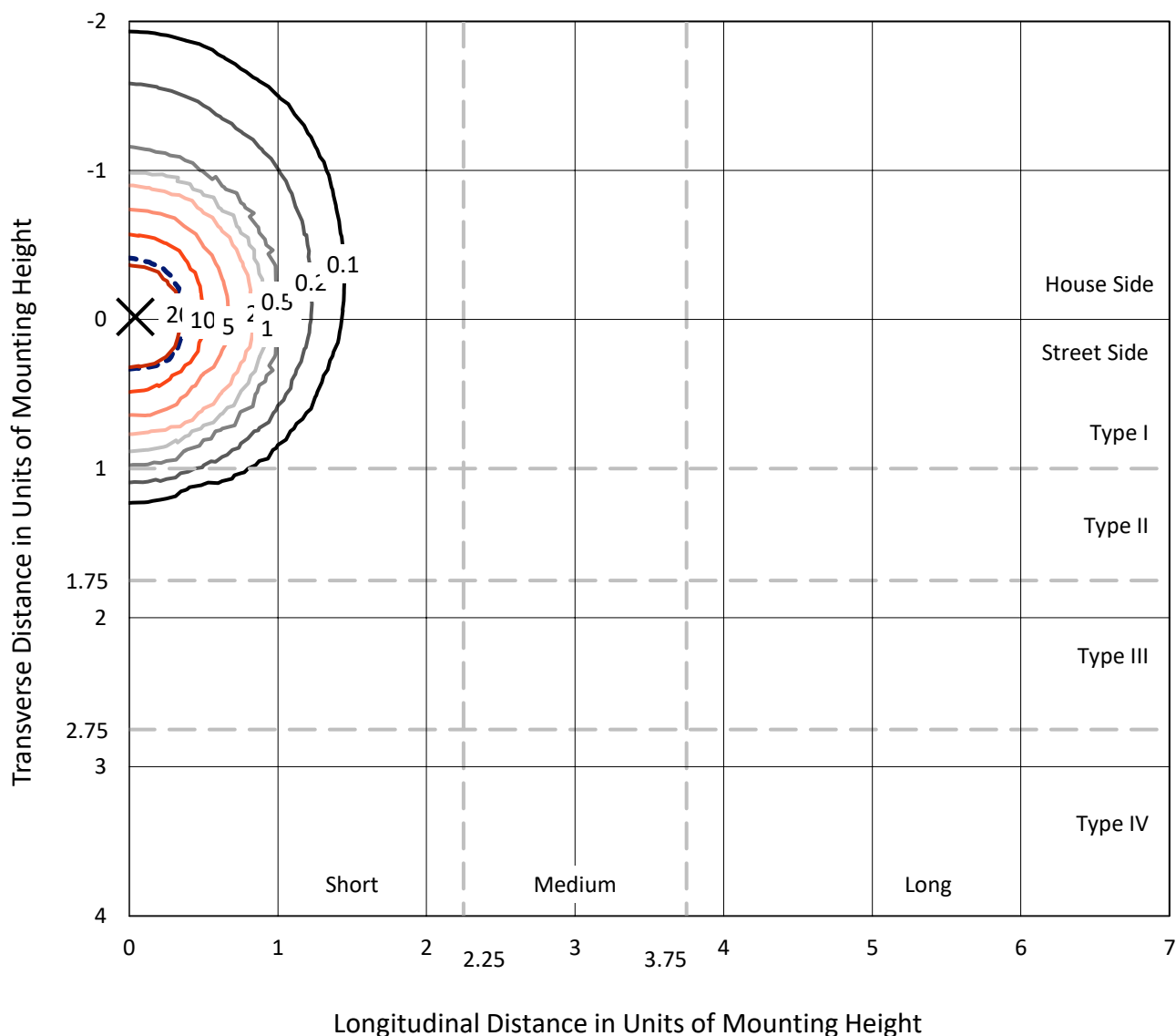
REPORT NUMBER: P636509

CATALOG NUMBER: IFLD-S-SA2E-940-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

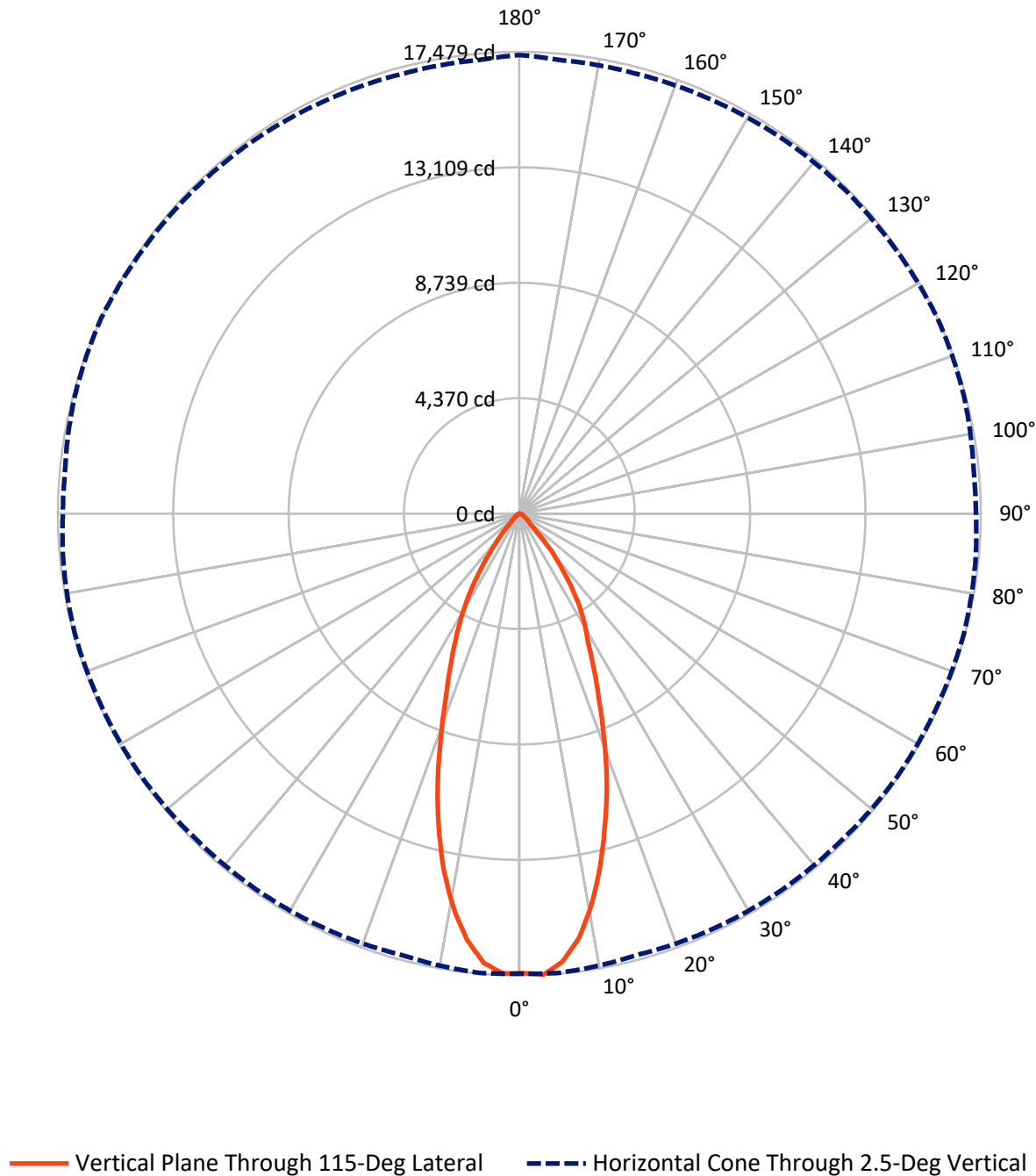


Based on 20 foot mounting height. Maximum calculated value = 43.5 fc

Type I - Short - N/A

REPORT NUMBER: P636509
CATALOG NUMBER: IFLD-S-SA2E-940-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P636509

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5972.7	0.0	5972.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4849.7	0.0	4849.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	10822.3	0.0	10822.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1560.4	14.4
10°-20°	3297.8	30.5
20°-30°	2976.5	27.5
30°-40°	1969.7	18.2
40°-50°	590.0	5.5
50°-60°	236.7	2.2
60°-70°	122.6	1.1
70°-80°	53.2	0.5
80°-90°	15.5	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°	10822.3	100.0
0°-180°	10822.3	100.0

Coefficient of Utilization



REPORT NUMBER: P636509

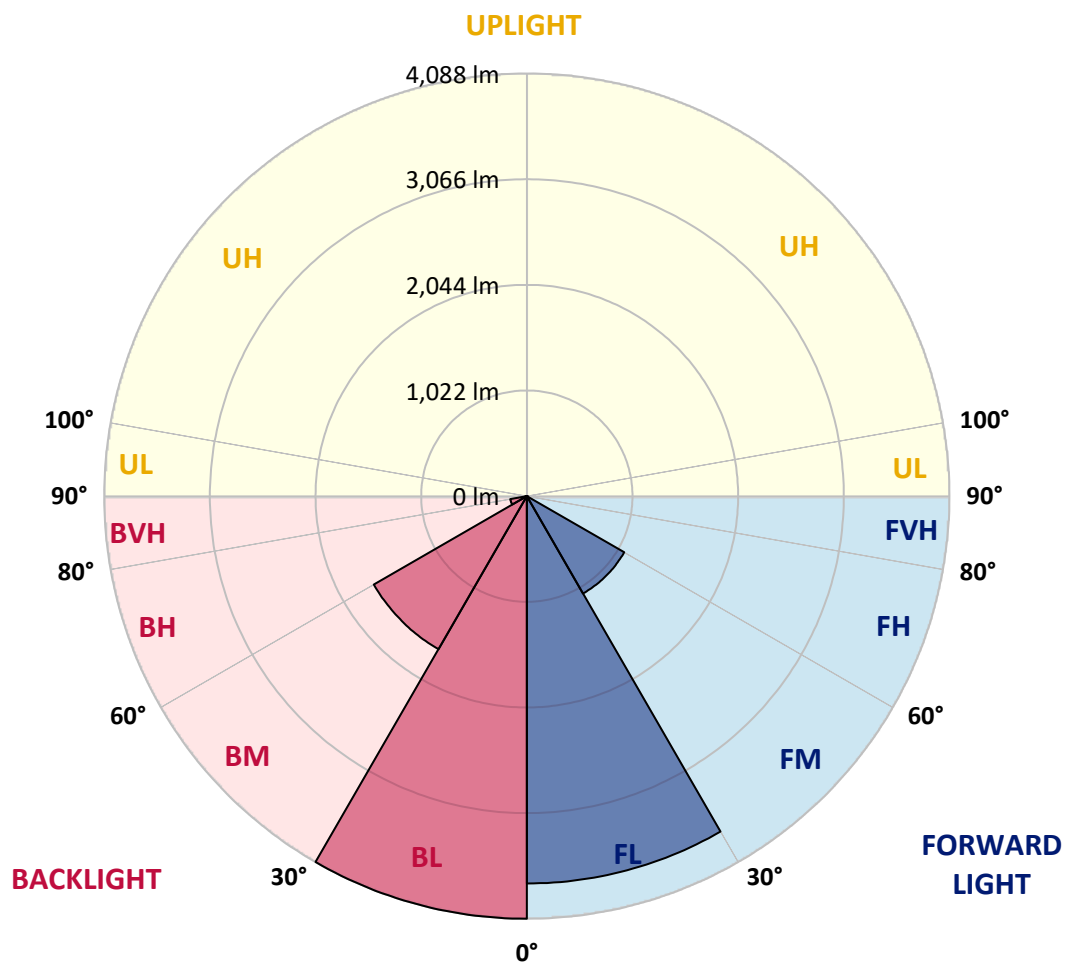
CATALOG NUMBER: IFLD-S-SA2E-940-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3746.8	34.6			
FM	(30°-60°)	1087.2	10.0			
FH	(60°-80°)	13.5	0.1			G0/660
FVH	(80°-90°)	2.2	0.0			G0/10
BL	(0°-30°)	4087.9	37.8	B4/5000		
BM	(30°-60°)	1709.2	15.8	B2/2500		
BH	(60°-80°)	162.3	1.5	B1/500		G1/500
BVH	(80°-90°)	13.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short



REPORT NUMBER: P636509

CATALOG NUMBER: IFLD-S-SA2E-940-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17396.9	17396.9	17396.9	17396.9	17396.9	17396.9	17396.9	17396.9	17396.9	17396.9
2.5°	17419.0	17450.0	17295.1	17348.2	17370.3	17377.0	17432.3	17423.5	17439.0	17357.1
5°	17188.9	17129.1	17014.0	17016.2	17009.6	16947.6	17073.8	17064.9	17038.3	16941.0
7.5°	16405.3	16491.6	16274.7	16270.3	16265.9	16190.6	16356.6	16254.8	16277.0	16137.5
10°	15258.8	15269.9	15077.3	15059.6	15075.1	14977.7	15170.3	15130.4	15172.5	15026.4
12.5°	13853.3	13915.3	13702.8	13671.8	13733.8	13596.6	13751.5	13771.4	13709.5	13689.6
15°	10865.3	11029.1	11431.9	12047.2	12206.6	12091.5	12215.5	12213.2	12239.8	12089.3
17.5°	8277.9	8293.4	8198.2	8492.6	10196.9	10750.2	10776.8	10566.5	10407.2	10351.8
20°	7226.6	7279.7	7193.4	7217.7	7490.0	9112.3	9174.3	8857.8	8585.6	8563.4
22.5°	6389.9	6423.1	6361.2	6381.1	6394.4	6584.7	7662.6	7383.7	7253.1	7153.5
25°	5681.7	5681.7	5648.5	5655.1	5641.8	5360.7	5914.1	6232.8	6157.5	6122.1
27.5°	5035.4	5044.2	5002.2	5026.5	4864.9	4411.2	4344.8	5285.5	5205.8	5141.6
30°	4422.3	4451.0	4411.2	4424.5	4072.6	3700.7	3510.4	4409.0	4508.6	4490.9
32.5°	3328.9	3459.5	3780.4	3793.7	3315.6	3030.1	2946.0	3539.1	3917.6	3884.4
35°	2062.8	2056.2	2069.5	2706.9	2543.1	2348.4	2379.3	2673.7	3100.9	3085.4
37.5°	1573.7	1571.5	1595.8	1531.6	1666.7	1781.7	1806.1	1806.1	2264.3	2266.5
40°	1193.0	1184.1	1181.9	1080.1	905.3	1336.9	1297.0	1263.8	1573.7	1606.9
42.5°	761.4	788.0	768.0	657.4	591.0	730.4	814.5	788.0	971.7	996.0
45°	425.0	425.0	407.3	345.3	343.1	369.6	464.8	433.8	498.0	531.2
47.5°	205.8	201.4	221.3	272.2	283.3	274.5	332.0	345.3	376.3	407.3
50°	166.0	166.0	157.1	141.7	234.6	225.8	245.7	263.4	281.1	307.7
52.5°	139.4	139.4	128.4	119.5	135.0	172.6	174.9	208.1	205.8	243.5
55°	70.8	73.0	104.0	104.0	90.7	141.7	143.9	168.2	172.6	203.6
57.5°	6.6	8.9	13.3	64.2	70.8	77.5	108.5	123.9	143.9	157.1
60°	2.2	2.2	4.4	8.9	42.1	53.1	68.6	81.9	99.6	130.6
62.5°	0.0	0.0	2.2	4.4	8.9	33.2	37.6	42.1	59.8	81.9
65°	0.0	0.0	2.2	2.2	4.4	11.1	15.5	26.6	37.6	50.9
67.5°	0.0	0.0	2.2	2.2	4.4	6.6	8.9	13.3	17.7	33.2
70°	0.0	0.0	2.2	2.2	4.4	6.6	6.6	8.9	11.1	15.5
72.5°	0.0	0.0	2.2	2.2	4.4	8.9	6.6	6.6	8.9	11.1
75°	0.0	0.0	2.2	2.2	4.4	6.6	6.6	6.6	6.6	6.6
77.5°	0.0	0.0	2.2	2.2	4.4	6.6	6.6	6.6	4.4	4.4
80°	0.0	0.0	2.2	2.2	4.4	6.6	8.9	8.9	4.4	4.4
82.5°	0.0	0.0	2.2	4.4	4.4	11.1	13.3	11.1	4.4	2.2
85°	0.0	0.0	2.2	2.2	6.6	11.1	11.1	6.6	4.4	2.2
87.5°	0.0	0.0	0.0	2.2	2.2	4.4	6.6	6.6	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P636509

CATALOG NUMBER: IFLD-S-SA2E-940-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
17396.9	0°	17396.9	17396.9	17396.9	17396.9	17396.9	17396.9	17396.9	17396.9	17396.9
17290.7	2.5°	17281.8	17416.8	17478.8	17414.6	17383.6	17339.4	17275.2	17230.9	17239.8
16887.8	5°	16850.2	16991.9	17040.6	16985.2	16938.7	16914.4	16903.3	16925.5	16983.0
16077.8	7.5°	16073.3	16164.1	16217.2	16190.6	16126.4	16199.5	16219.4	16206.1	16290.2
14982.1	10°	14986.6	15086.2	15037.5	15048.5	14973.3	15010.9	14999.9	15048.5	15132.7
13674.1	12.5°	13585.5	13680.7	13643.1	13636.4	13556.8	13627.6	13583.3	13636.4	13747.1
12027.3	15°	12113.6	12173.4	12149.1	12111.4	12040.6	12065.0	12202.2	12193.3	12242.0
10318.6	17.5°	10274.4	10562.1	10719.2	10752.4	10694.9	10743.6	10841.0	10816.6	10927.3
8517.0	20°	8501.5	8791.4	9178.8	9493.0	9499.7	9506.3	9568.3	9583.8	9679.0
7155.8	22.5°	7124.8	7330.6	7746.7	8162.8	8450.6	8510.3	8503.7	8525.8	8552.4
6073.4	25°	6057.9	6208.4	6589.1	6876.9	7381.5	7549.7	7598.4	7549.7	7565.2
5119.5	27.5°	5177.0	5407.2	5533.4	5841.0	6334.6	6724.1	6708.7	6679.9	6684.3
4455.5	30°	4453.3	4701.1	4887.1	4980.0	5351.9	5914.1	5971.6	5889.7	5891.9
3868.9	32.5°	3844.6	3922.1	4196.5	4271.8	4510.8	5022.1	5219.1	5157.1	5146.0
3094.3	35°	3185.0	3227.1	3353.2	3501.5	3643.2	4030.5	4355.9	4298.3	4327.1
2275.3	37.5°	2266.5	2439.1	2560.8	2682.6	2784.4	3027.9	3419.6	3366.5	3395.3
1611.3	40°	1598.0	1675.5	1885.8	1938.9	2089.4	2202.3	2534.3	2516.6	2552.0
1000.4	42.5°	982.7	1038.1	1144.3	1195.2	1297.0	1361.2	1556.0	1578.1	1624.6
553.3	45°	557.8	582.1	655.2	710.5	785.7	812.3	880.9	911.9	938.5
429.4	47.5°	425.0	451.5	500.2	548.9	610.9	633.0	681.7	728.2	752.5
332.0	50°	347.5	371.8	422.7	462.6	524.6	544.5	584.3	635.2	666.2
252.3	52.5°	263.4	298.8	360.8	402.8	467.0	491.4	529.0	579.9	608.7
208.1	55°	216.9	243.5	298.8	356.3	416.1	449.3	473.7	535.6	566.6
170.4	57.5°	185.9	205.8	241.3	309.9	360.8	409.5	429.4	486.9	517.9
135.0	60°	141.7	172.6	203.6	256.7	314.3	365.2	387.3	438.2	462.6
97.4	62.5°	117.3	137.2	177.1	205.8	270.0	323.1	345.3	391.8	409.5
64.2	65°	81.9	110.7	148.3	166.0	225.8	276.7	307.7	343.1	360.8
37.6	67.5°	48.7	81.9	117.3	141.7	183.7	234.6	267.8	301.0	316.5
22.1	70°	31.0	64.2	93.0	119.5	143.9	192.6	232.4	261.2	254.5
13.3	72.5°	17.7	39.8	68.6	97.4	119.5	161.6	199.2	221.3	157.1
8.9	75°	11.1	28.8	57.5	79.7	97.4	128.4	163.8	168.2	97.4
4.4	77.5°	8.9	22.1	44.3	64.2	66.4	95.2	115.1	130.6	73.0
4.4	80°	4.4	17.7	37.6	53.1	42.1	66.4	88.5	101.8	57.5
2.2	82.5°	4.4	11.1	28.8	37.6	31.0	50.9	64.2	73.0	48.7
2.2	85°	2.2	8.9	15.5	22.1	22.1	33.2	28.8	35.4	31.0
2.2	87.5°	2.2	4.4	8.9	11.1	8.9	13.3	15.5	15.5	13.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
17396.9
17359.3
17102.5
16374.3
15165.9
13767.0
12253.1
10909.6
9659.0
8503.7
7540.9
6690.9
5894.1
5172.6
4353.7
3419.6
2565.3
1677.7
936.2
763.6
679.5
628.6
575.5
531.2
467.0
411.7
360.8
314.3
234.6
139.4
90.7
73.0
59.8
53.1
31.0
11.1
0.0

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