

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: P636525

Luminaire Tested: **IFLD-L-SA7A-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636525
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18715.8 lumens
Efficiency: N/A
Efficacy: 86.0 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): 217.6
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



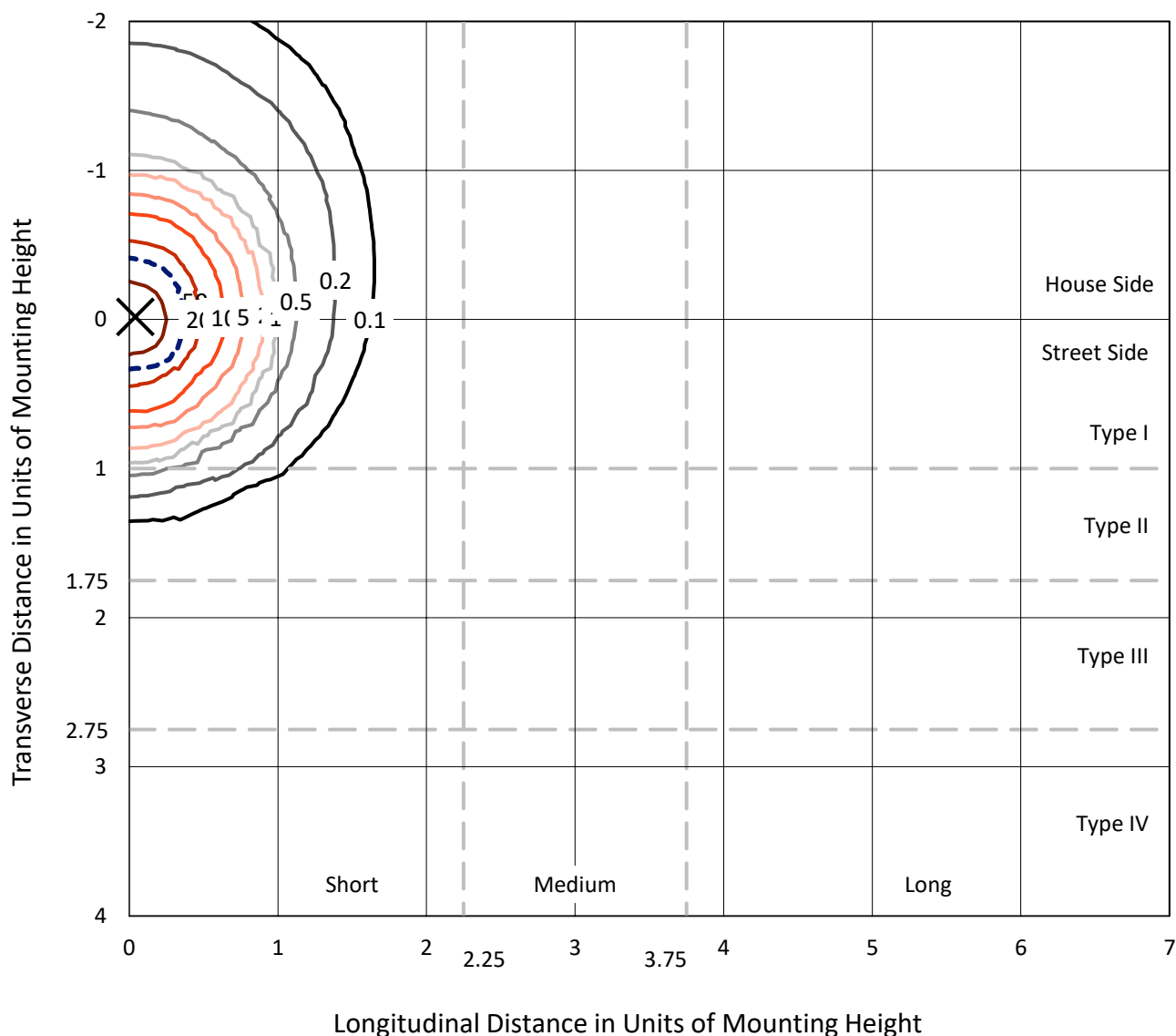
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

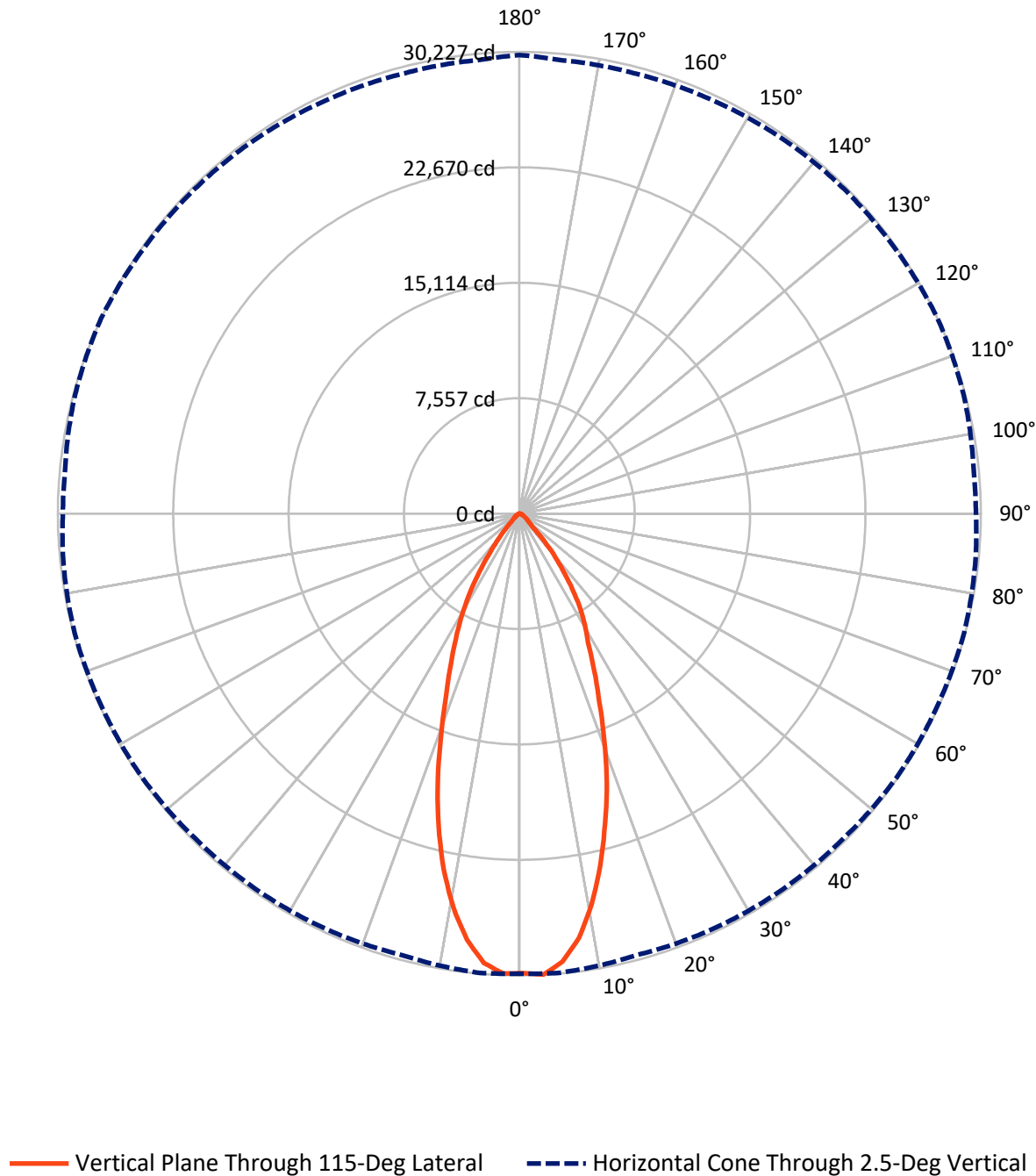


Based on 20 foot mounting height. Maximum calculated value = 75.2 fc

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	10329.0	0.0	10329.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8386.9	0.0	8386.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	18715.8	0.0	18715.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2698.5	14.4
10°-20°	5703.1	30.5
20°-30°	5147.4	27.5
30°-40°	3406.4	18.2
40°-50°	1020.4	5.5
50°-60°	409.3	2.2
60°-70°	212.0	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°	18715.8	100.0
0°-180°	18715.8	100.0

Coefficient of Utilization



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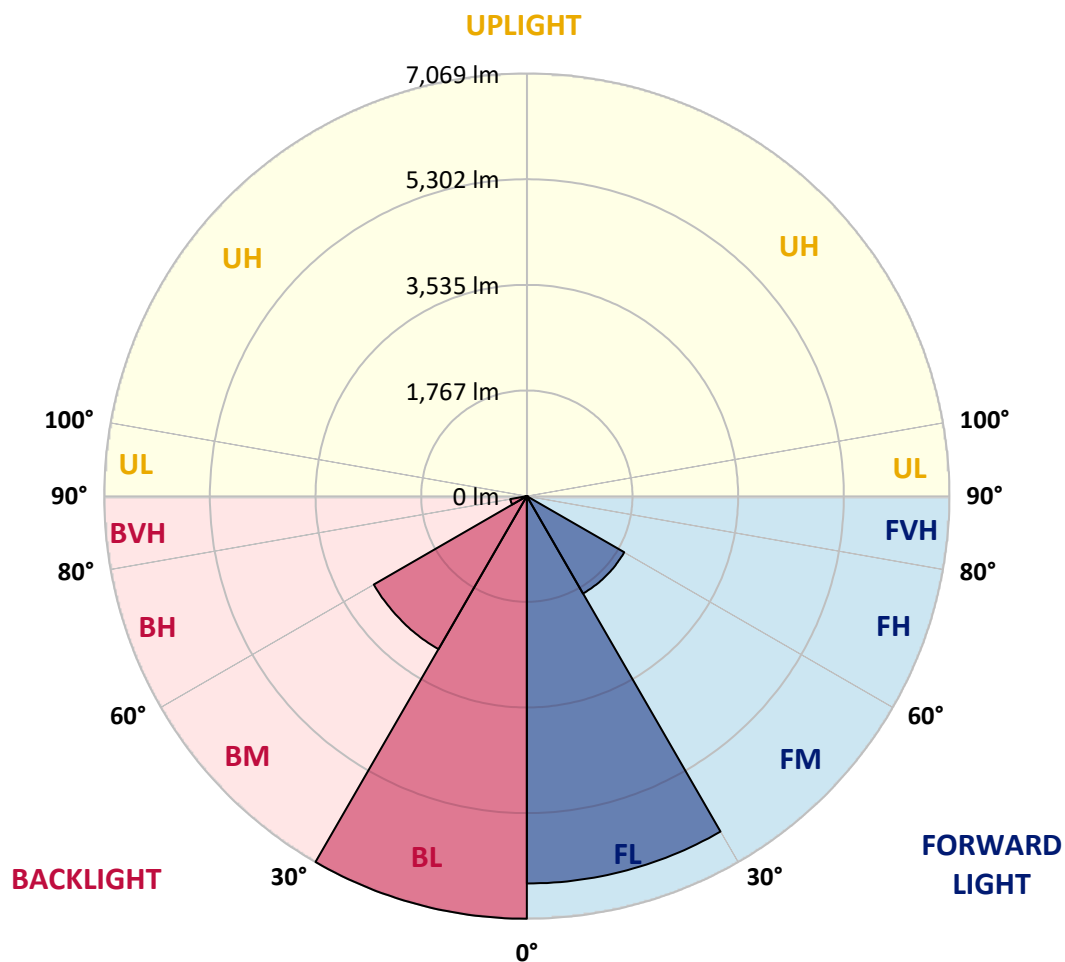
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6479.6	34.6			
FM	(30°-60°)	1880.2	10.0			
FH	(60°-80°)	23.3	0.1			G0/660
FVH	(80°-90°)	3.9	0.0			G0/10
BL	(0°-30°)	7069.4	37.8	B5		
BM	(30°-60°)	2955.9	15.8	B3/5000		
BH	(60°-80°)	280.7	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°	30085.7	30085.7	30085.7	30085.7	30085.7	30085.7	30085.7	30085.7	30085.7	30085.7
2.5°	30124.0	30177.6	29909.6	30001.5	30039.8	30051.3	30147.0	30131.6	30158.4	30016.8
5°	29725.9	29622.6	29423.5	29427.3	29415.9	29308.7	29526.9	29511.6	29465.6	29297.2
7.5°	28370.9	28520.2	28145.1	28137.4	28129.8	27999.6	28286.7	28110.6	28148.9	27907.8
10°	26388.2	26407.3	26074.3	26043.7	26070.5	25902.0	26235.0	26166.1	26238.9	25986.2
12.5°	23957.6	24064.7	23697.3	23643.7	23750.9	23513.6	23781.5	23815.9	23708.8	23674.3
15°	18790.2	19073.4	19770.1	20834.2	21109.8	20910.7	21125.1	21121.2	21167.2	20906.9
17.5°	14315.6	14342.4	14177.8	14686.9	17634.2	18591.1	18637.1	18273.4	17997.8	17902.1
20°	12497.4	12589.3	12440.0	12482.1	12952.9	15758.6	15865.8	15318.4	14847.6	14809.4
22.5°	11050.6	11108.0	11000.8	11035.3	11058.2	11387.4	13251.5	12769.2	12543.4	12371.1
25°	9825.7	9825.7	9768.3	9779.8	9756.8	9270.7	10227.6	10778.8	10648.7	10587.4
27.5°	8708.0	8723.3	8650.6	8692.7	8413.3	7628.6	7513.8	9140.5	9002.7	8891.7
30°	7647.7	7697.5	7628.6	7651.6	7043.0	6399.9	6070.7	7624.8	7797.0	7766.4
32.5°	5756.9	5982.7	6537.7	6560.7	5733.9	5240.1	5094.7	6120.5	6775.0	6717.6
35°	3567.4	3555.9	3578.9	4681.3	4398.0	4061.2	4114.8	4623.9	5362.6	5335.8
37.5°	2721.5	2717.7	2759.8	2648.8	2882.3	3081.3	3123.4	3123.4	3915.7	3919.6
40°	2063.1	2047.8	2044.0	1867.9	1565.5	2311.9	2243.0	2185.6	2721.5	2778.9
42.5°	1316.7	1362.7	1328.2	1136.8	1022.0	1263.1	1408.6	1362.7	1680.4	1722.5
45°	734.9	734.9	704.3	597.1	593.3	639.2	803.8	750.2	861.2	918.6
47.5°	356.0	348.3	382.8	470.8	489.9	474.6	574.2	597.1	650.7	704.3
50°	287.1	287.1	271.8	245.0	405.7	390.4	424.9	455.5	486.1	532.1
52.5°	241.1	241.1	222.0	206.7	233.5	298.6	302.4	359.8	356.0	421.0
55°	122.5	126.3	179.9	179.9	156.9	245.0	248.8	290.9	298.6	352.1
57.5°	11.5	15.3	23.0	111.0	122.5	134.0	187.6	214.4	248.8	271.8
60°	3.8	3.8	7.7	15.3	72.7	91.9	118.7	141.6	172.2	225.8
62.5°	0.0	0.0	3.8	7.7	15.3	57.4	65.1	72.7	103.3	141.6
65°	0.0	0.0	3.8	3.8	7.7	19.1	26.8	45.9	65.1	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°
30085.7	0°	30085.7	30085.7	30085.7	30085.7	30085.7	30085.7	30085.7	30085.7	30085.7
29902.0	2.5°	29886.7	30120.2	30227.3	30116.3	30062.7	29986.2	29875.2	29798.6	29813.9
29205.3	5°	29140.3	29385.2	29469.5	29373.8	29293.4	29251.3	29232.1	29270.4	29369.9
27804.4	7.5°	27796.7	27953.7	28045.5	27999.6	27888.6	28014.9	28049.4	28026.4	28171.9
25909.7	10°	25917.3	26089.6	26005.4	26024.5	25894.4	25959.5	25940.3	26024.5	26170.0
23647.5	12.5°	23494.4	23659.0	23593.9	23582.5	23444.7	23567.1	23490.6	23582.5	23773.8
20799.7	15°	20949.0	21052.3	21010.2	20945.2	20822.7	20864.8	21102.1	21086.8	21171.0
17844.7	17.5°	17768.2	18265.8	18537.5	18595.0	18495.4	18579.6	18748.1	18706.0	18897.3
14729.0	20°	14702.2	15203.6	15873.5	16417.0	16428.5	16440.0	16547.1	16573.9	16738.5
12374.9	22.5°	12321.4	12677.3	13396.9	14116.6	14614.2	14717.5	14706.0	14744.3	14790.2
10503.2	25°	10476.4	10736.7	11395.1	11892.7	12765.4	13056.3	13140.5	13056.3	13083.1
8853.5	27.5°	8953.0	9351.1	9569.2	10101.3	10954.9	11628.5	11601.8	11552.0	11559.6
7705.2	30°	7701.3	8130.0	8451.6	8612.3	9255.4	10227.6	10327.1	10185.5	10189.3
6690.8	32.5°	6648.7	6782.7	7257.3	7387.5	7800.8	8685.0	9025.7	8918.5	8899.4
5351.1	35°	5508.1	5580.8	5799.0	6055.4	6300.4	6970.2	7532.9	7433.4	7483.2
3934.9	37.5°	3919.6	4218.1	4428.6	4639.2	4815.2	5236.3	5913.8	5821.9	5871.7
2786.6	40°	2763.6	2897.6	3261.2	3353.1	3613.3	3808.6	4382.7	4352.1	4413.3
1730.1	42.5°	1699.5	1795.2	1978.9	2067.0	2243.0	2354.0	2690.9	2729.1	2809.5
956.9	45°	964.6	1006.7	1133.0	1228.7	1358.8	1404.8	1523.4	1577.0	1622.9
742.6	47.5°	734.9	780.9	865.1	949.3	1056.4	1094.7	1178.9	1259.3	1301.4
574.2	50°	600.9	643.1	731.1	800.0	907.2	941.6	1010.5	1098.5	1152.1
436.4	52.5°	455.5	516.7	623.9	696.6	807.6	849.7	914.8	1002.9	1052.6
359.8	55°	375.1	421.0	516.7	616.3	719.6	777.0	819.1	926.3	979.9
294.7	57.5°	321.5	356.0	417.2	535.9	623.9	708.1	742.6	842.1	895.7
233.5	60°	245.0	298.6	352.1	444.0	543.5	631.6	669.8	757.9	800.0
168.4	62.5°	202.9	237.3	306.2	356.0	467.0	558.8	597.1	677.5	708.1
111.0	65°	141.6	191.4	256.5	287.1	390.4	478.5	532.1	593.3	623.9
65.1	67.5°	84.2	141.6	202.9	245.0	317.7	405.7	463.2	520.6	547.4
38.3	70°	53.6	111.0	160.8	206.7	248.8	333.0	401.9	451.7	440.2
23.0	72.5°	30.6	68.9	118.7	168.4	206.7	279.4	344.5	382.8	271.8
15.3	75°	19.1	49.8	99.5	137.8	168.4	222.0	283.2	290.9	168.4
7.7	77.5°	15.3	38.3	76.6	111.0	114.8	164.6	199.0	225.8	126.3
7.7	80°	7.7	30.6	65.1	91.9	72.7	114.8	153.1	176.1	99.5
3.8	82.5°	7.7	19.1	49.8	65.1	53.6	88.0	111.0	126.3	84.2
3.8	85°	3.8	15.3	26.8	38.3	38.3	57.4	49.8	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°
30085.7
30020.6
29576.6
28317.3
26227.4
23808.3
21190.1
18866.7
16704.1
14706.0
13041.0
11571.1
10193.2
8945.3
7529.1
5913.8
4436.3
2901.4
1619.1
1320.6
1175.1
1087.1
995.2
918.6
807.6
712.0
623.9
543.5
405.7
241.1
156.9
126.3
103.3
91.9
53.6
19.1
0.0

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