

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: P637553

Luminaire Tested: **IFLD-S-SA2E-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637553
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14218.3 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - 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

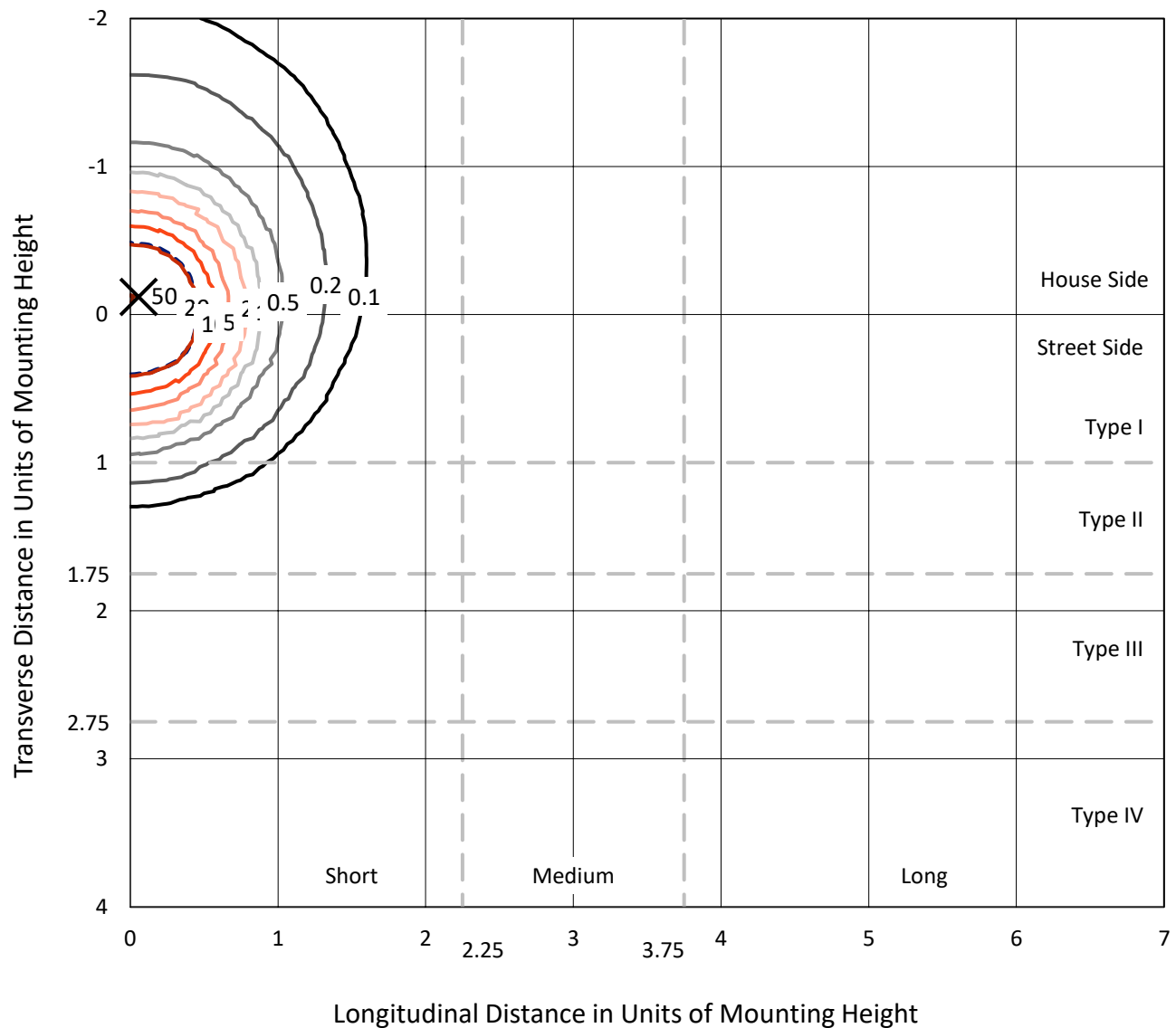


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

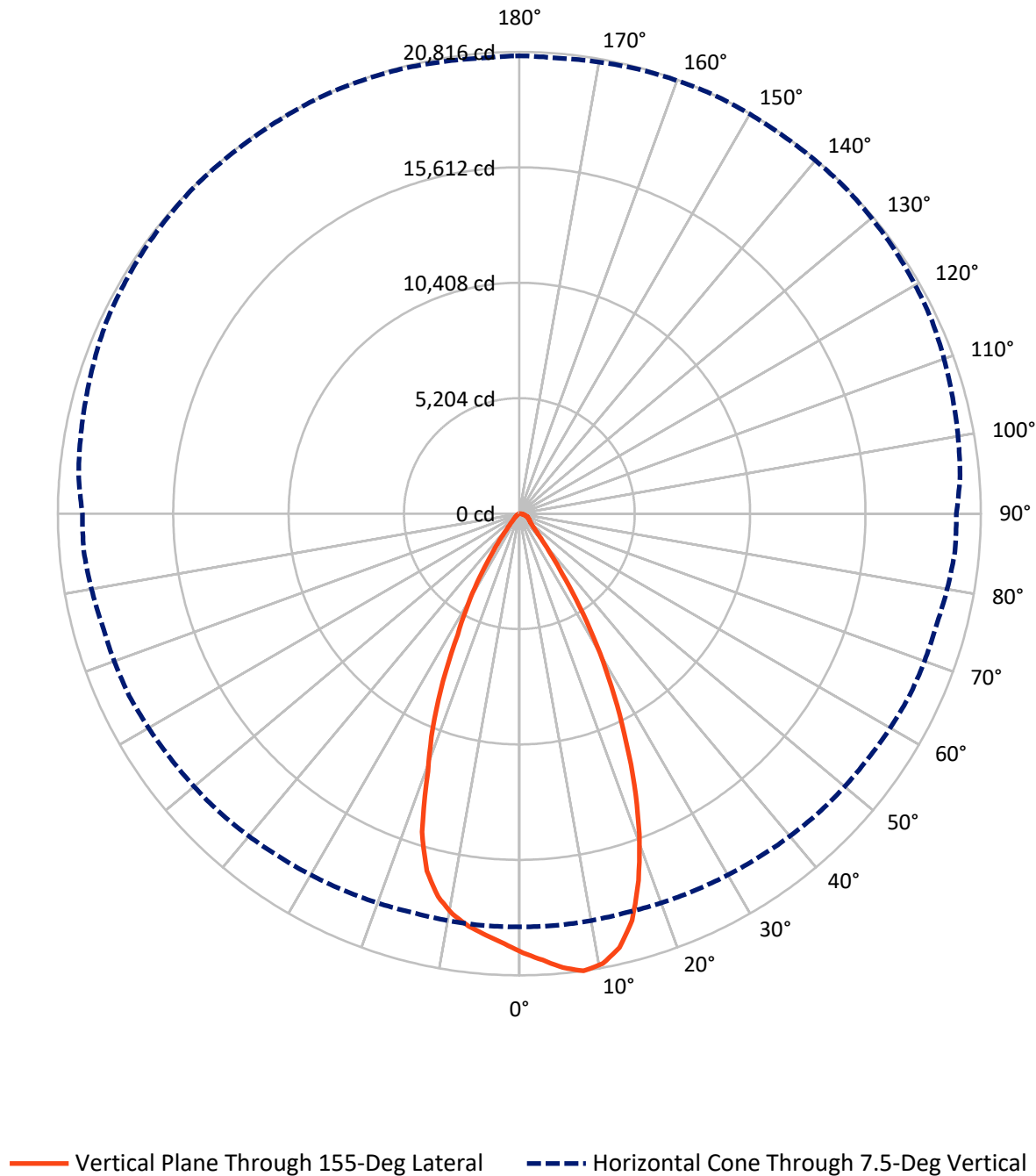


Based on 20 foot mounting height. Maximum calculated value = 50.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7849.0	0.0	7849.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	6369.3	0.0	6369.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	14218.3	0.0	14218.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1888.8	13.3
10°-20°	4897.5	34.4
20°-30°	4487.5	31.6
30°-40°	1812.9	12.8
40°-50°	531.8	3.7
50°-60°	297.4	2.1
60°-70°	180.6	1.3
70°-80°	91.8	0.6
80°-90°	30.0	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°	14218.3	100.0
0°-180°	14218.3	100.0

Coefficient of Utilization



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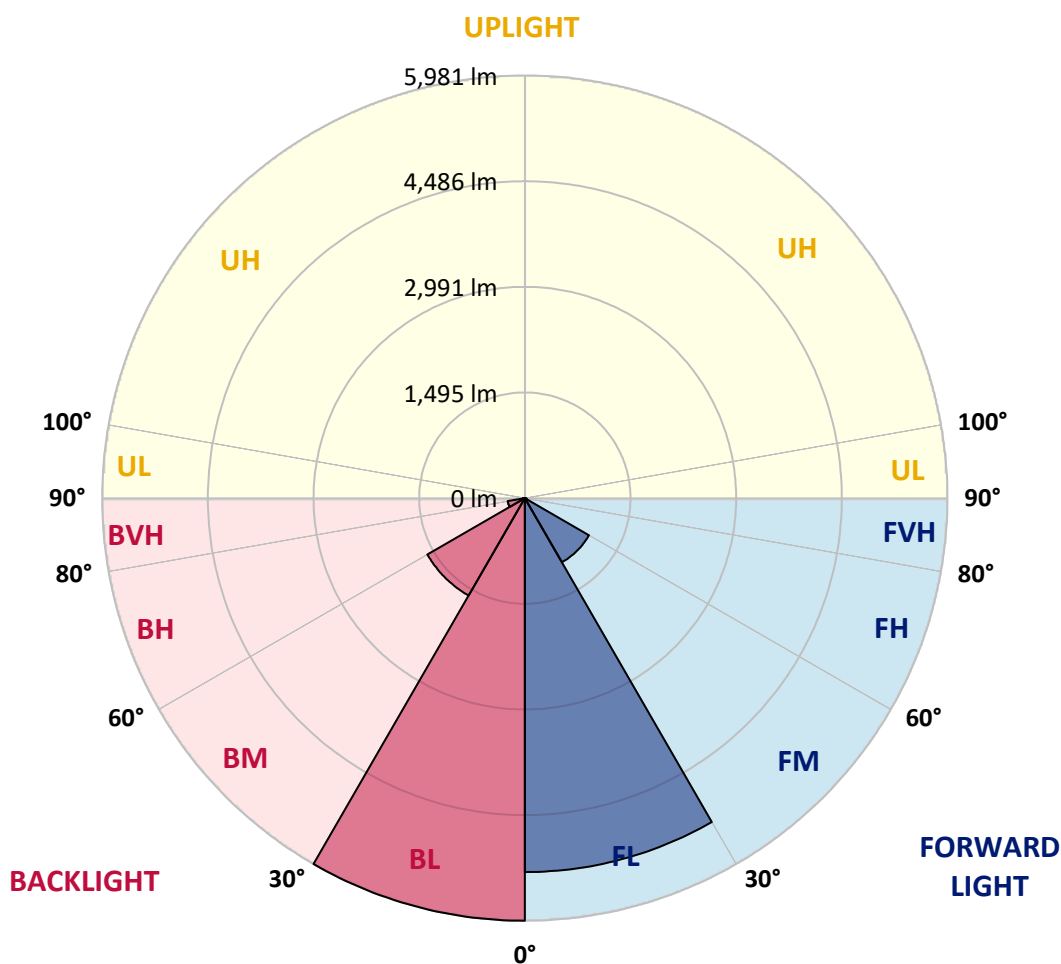
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5292.4	37.2			
FM	(30°-60°)	1048.9	7.4			
FH	(60°-80°)	25.4	0.2			G0/660
FVH	(80°-90°)	2.6	0.0			G0/10
BL	(0°-30°)	5981.4	42.1	B5		
BM	(30°-60°)	1593.3	11.2	B2/2500		
BH	(60°-80°)	247.0	1.7	B1/500		G1/500
BVH	(80°-90°)	27.4	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-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19807.3	19807.3	19807.3	19807.3	19807.3	19807.3	19807.3	19807.3	19807.3	19807.3
2.5°	19377.7	19443.3	19312.1	19399.0	19466.2	19626.9	19640.0	19695.8	19715.4	19861.4
5°	19010.4	19061.3	18954.7	19071.1	19166.2	19308.8	19418.7	19572.8	19658.1	19830.2
7.5°	18628.4	18639.9	18618.6	18741.6	18884.2	19080.9	19217.0	19418.7	19471.1	19717.1
10°	18166.1	18082.5	18123.4	18303.8	18516.9	18818.6	18912.1	19113.7	19207.2	19458.0
12.5°	17428.3	17470.9	17420.1	17649.6	17826.7	18169.4	18267.7	18471.0	18649.7	18871.1
15°	16388.8	16364.2	16467.5	16646.2	16838.1	17110.2	17269.2	17490.6	17626.7	17856.2
17.5°	14052.5	14136.1	14562.4	15010.0	15403.5	15721.5	15911.7	16095.3	16193.7	16442.9
20°	12135.9	12030.9	12088.3	12340.8	13460.6	13947.5	14147.6	14191.8	14232.8	14429.6
22.5°	9993.0	9958.6	10150.4	10434.0	10699.6	11822.7	12094.9	11991.6	12076.8	12262.1
25°	7420.5	7594.3	7764.9	8309.2	8653.5	9204.4	9720.8	9766.7	9797.9	9914.3
27.5°	6040.1	5979.4	5976.1	6128.6	6636.8	7095.9	7535.3	7637.0	7618.9	7730.4
30°	4748.1	4728.4	4659.6	4695.6	4644.8	5053.1	5259.6	5677.7	5654.8	5658.0
32.5°	3425.0	3351.2	3323.3	3377.4	3325.0	3287.3	3467.6	3939.8	3931.6	3964.4
35°	2072.4	2062.5	2085.5	2133.0	2028.1	2024.8	2062.5	2506.9	2561.0	2613.4
37.5°	1144.4	1134.6	1152.6	1328.0	1293.6	1262.4	1272.3	1506.7	1662.5	1701.8
40°	754.2	752.5	765.7	796.8	855.8	844.4	849.3	954.2	1101.8	1136.2
42.5°	505.0	506.6	514.8	550.9	559.1	618.1	608.3	632.9	770.6	800.1
45°	403.3	401.7	406.6	390.2	400.0	460.7	467.3	468.9	587.0	605.0
47.5°	318.1	318.1	323.0	301.7	296.8	334.5	368.9	373.8	468.9	493.5
50°	223.0	223.0	247.6	237.7	249.2	260.7	298.4	303.3	383.7	409.9
52.5°	164.0	167.2	170.5	172.2	209.9	208.2	241.0	264.0	290.2	336.1
55°	124.6	127.9	119.7	127.9	155.8	173.8	180.3	213.1	231.2	282.0
57.5°	82.0	90.2	83.6	98.4	104.9	134.4	144.3	175.4	186.9	231.2
60°	11.5	13.1	21.3	68.9	73.8	88.5	111.5	139.4	150.8	188.5
62.5°	1.6	1.6	4.9	11.5	49.2	59.0	83.6	96.7	111.5	141.0
65°	0.0	0.0	1.6	3.3	9.8	34.4	42.6	52.5	77.1	101.7
67.5°	0.0	0.0	1.6	3.3	4.9	11.5	18.0	34.4	44.3	70.5
70°	0.0	0.0	1.6	3.3	4.9	6.6	9.8	13.1	26.2	41.0
72.5°	0.0	0.0	1.6	3.3	4.9	6.6	8.2	9.8	11.5	26.2
75°	0.0	0.0	1.6	3.3	4.9	8.2	9.8	9.8	9.8	11.5
77.5°	0.0	0.0	1.6	3.3	6.6	9.8	11.5	9.8	8.2	8.2
80°	0.0	0.0	1.6	4.9	8.2	11.5	13.1	9.8	6.6	4.9
82.5°	0.0	0.0	1.6	4.9	8.2	11.5	13.1	11.5	6.6	4.9
85°	0.0	0.0	1.6	4.9	6.6	8.2	13.1	11.5	6.6	3.3
87.5°	0.0	0.0	0.0	1.6	1.6	3.3	6.6	4.9	3.3	1.6
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°
19807.3	0°	19807.3	19807.3	19807.3	19807.3	19807.3	19807.3	19807.3	19807.3	19807.3
19858.1	2.5°	20005.6	20079.4	20208.9	20245.0	20356.5	20228.6	20158.1	20164.7	20012.2
19808.9	5°	20005.6	20174.5	20400.8	20509.0	20591.0	20584.4	20566.4	20520.5	20409.0
19710.5	7.5°	19953.2	20228.6	20540.1	20684.4	20782.8	20774.6	20815.6	20741.8	20605.7
19535.1	10°	19784.3	20023.7	20407.3	20525.4	20684.4	20687.7	20636.9	20651.6	20409.0
18894.0	12.5°	19253.1	19440.0	19776.1	19910.5	20104.0	20135.2	20079.4	20058.1	19828.6
17843.1	15°	18225.1	18333.3	18671.1	18805.5	18997.3	18971.1	19026.8	19003.9	18802.2
16423.2	17.5°	16721.6	16756.1	17110.2	17223.3	17403.7	17474.2	17390.6	17497.1	17323.4
14464.0	20°	14565.7	14750.9	15149.3	15323.1	15428.0	15554.3	15444.4	15564.1	15360.8
12086.7	22.5°	12378.5	12488.4	12849.1	13099.9	13295.0	13319.6	13278.6	13362.2	13088.4
9991.3	25°	9989.7	10171.7	10457.0	10784.9	10976.7	11094.8	10988.2	11042.3	10998.0
7748.5	27.5°	7879.6	8041.9	8256.7	8501.0	8789.6	8943.7	8858.4	8950.2	8733.8
5777.7	30°	5782.6	5864.6	6107.3	6366.3	6682.8	6869.7	6877.9	6971.3	6843.4
4048.0	32.5°	4077.5	4149.7	4298.9	4471.0	4772.7	4980.9	4948.1	4961.2	4882.5
2638.0	35°	2651.1	2747.9	2854.4	2936.4	3118.4	3347.9	3329.9	3313.5	3259.4
1734.6	37.5°	1772.3	1810.0	1869.1	1942.9	2060.9	2205.2	2252.7	2193.7	2170.7
1170.6	40°	1198.5	1264.1	1303.4	1359.2	1414.9	1536.2	1569.0	1557.6	1534.6
819.8	42.5°	850.9	901.7	950.9	1005.0	1034.5	1110.0	1173.9	1155.9	1146.0
623.0	45°	646.0	691.9	749.3	790.3	819.8	864.0	924.7	931.3	916.5
500.1	47.5°	518.1	559.1	605.0	655.8	690.2	718.1	770.6	790.3	780.4
421.4	50°	439.4	470.5	514.8	565.6	603.3	627.9	673.8	695.2	688.6
352.5	52.5°	373.8	411.5	452.5	495.1	541.0	565.6	608.3	639.4	634.5
291.8	55°	309.9	359.1	401.7	444.3	496.8	521.4	559.1	600.1	591.9
247.6	57.5°	270.5	311.5	355.8	396.8	452.5	485.3	519.7	562.4	560.7
203.3	60°	226.3	267.2	316.4	350.9	409.9	455.8	486.9	531.2	534.5
154.1	62.5°	180.3	231.2	268.9	316.4	370.5	424.6	454.2	498.4	514.8
118.0	65°	134.4	190.2	232.8	280.4	331.2	391.8	418.1	462.3	478.7
85.3	67.5°	100.0	142.6	196.7	237.7	295.1	347.6	378.7	419.7	431.2
50.8	70°	75.4	109.8	164.0	200.0	259.0	301.7	332.8	364.0	378.7
34.4	72.5°	44.3	82.0	129.5	172.2	223.0	259.0	282.0	306.6	316.4
16.4	75°	31.2	62.3	101.7	142.6	180.3	209.9	231.2	252.5	262.3
8.2	77.5°	16.4	45.9	80.3	114.8	141.0	165.6	186.9	203.3	209.9
6.6	80°	9.8	32.8	65.6	90.2	108.2	129.5	150.8	162.3	160.7
4.9	82.5°	6.6	26.2	47.5	65.6	78.7	95.1	109.8	118.0	118.0
3.3	85°	4.9	18.0	32.8	50.8	52.5	65.6	68.9	77.1	78.7
3.3	87.5°	3.3	11.5	18.0	29.5	27.9	34.4	36.1	41.0	44.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
19807.3
19889.2
20445.0
20636.9
20338.5
19776.1
18866.2
17280.7
15344.4
13050.7
10970.1
8789.6
6866.4
4926.8
3211.9
2165.8
1537.9
1137.8
914.9
775.5
687.0
631.2
591.9
559.1
534.5
513.2
477.1
431.2
375.5
313.2
259.0
208.2
159.0
116.4
77.1
42.6
0.0

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