

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: P637726

Luminaire Tested: **IFLD-S-SA2D-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637726
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10799.2 lumens
Efficiency: N/A
Efficacy: 87.2 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): 123.9
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



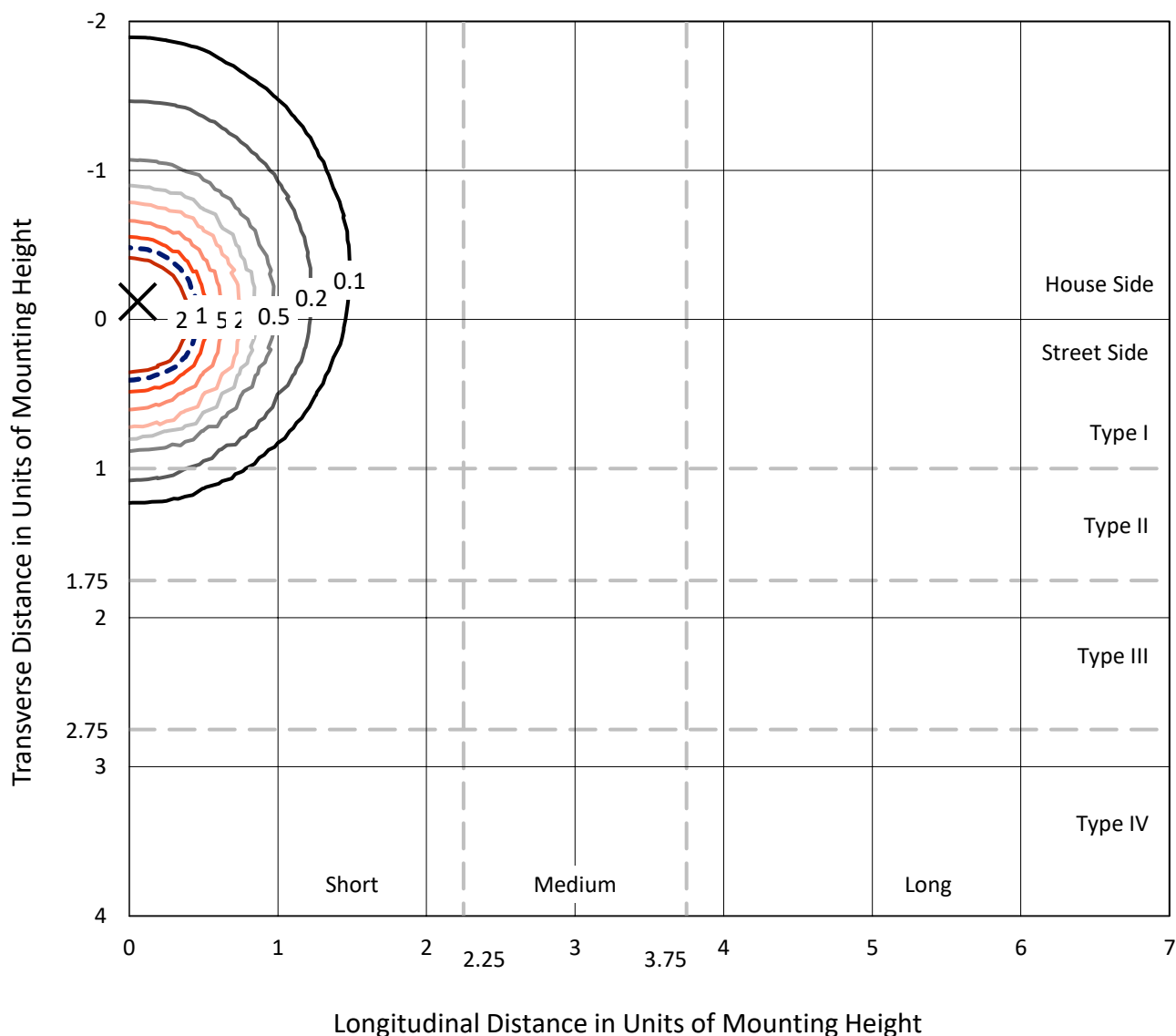
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



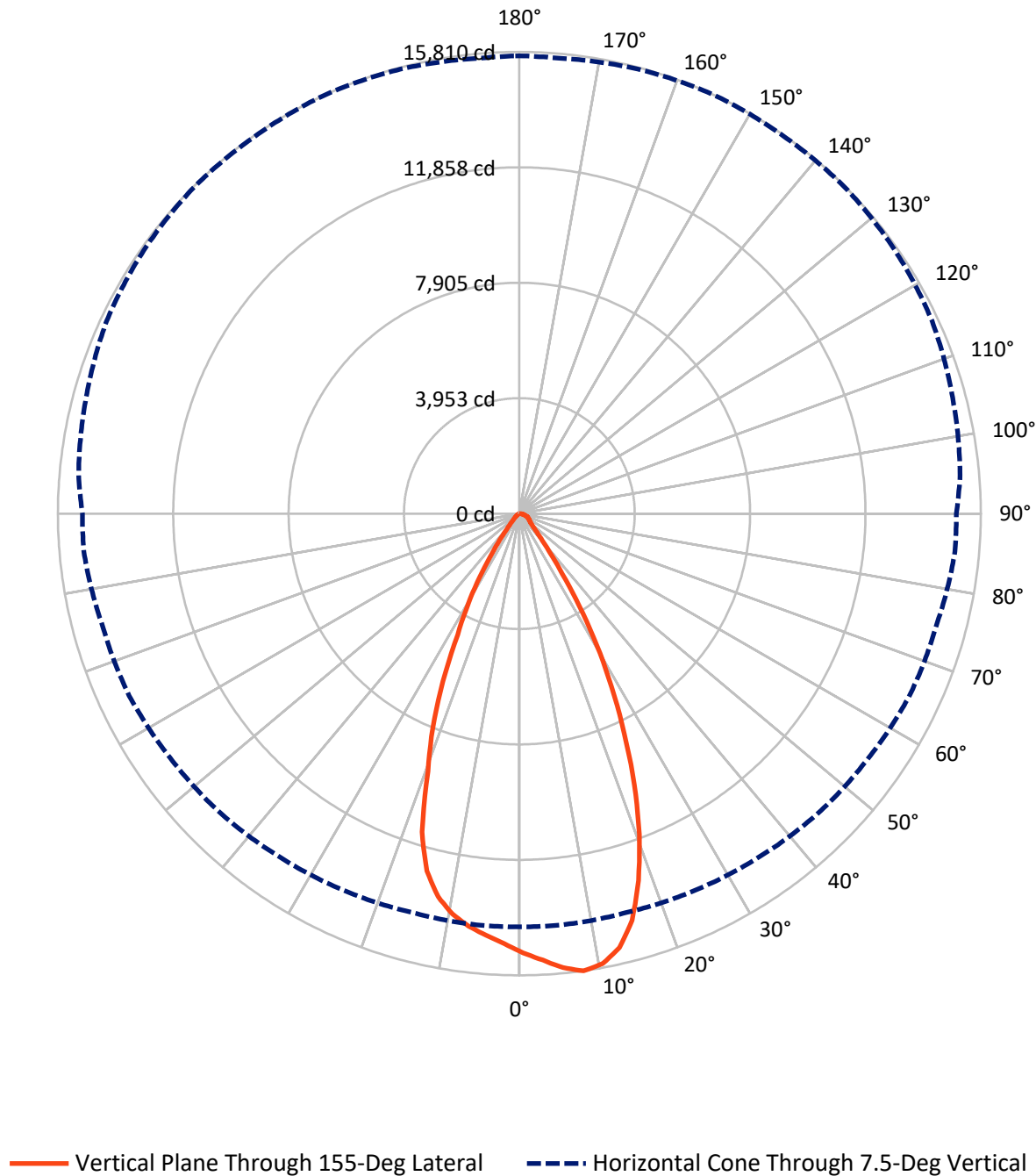
Based on 20 foot mounting height. Maximum calculated value = 38.2 fc

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	5961.6	0.0	5961.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4837.7	0.0	4837.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	10799.2	0.0	10799.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1434.6	13.3
10°-20°	3719.8	34.4
20°-30°	3408.4	31.6
30°-40°	1377.0	12.8
40°-50°	403.9	3.7
50°-60°	225.9	2.1
60°-70°	137.2	1.3
70°-80°	69.7	0.6
80°-90°	22.8	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°	10799.2	100.0
0°-180°	10799.2	100.0

Coefficient of Utilization



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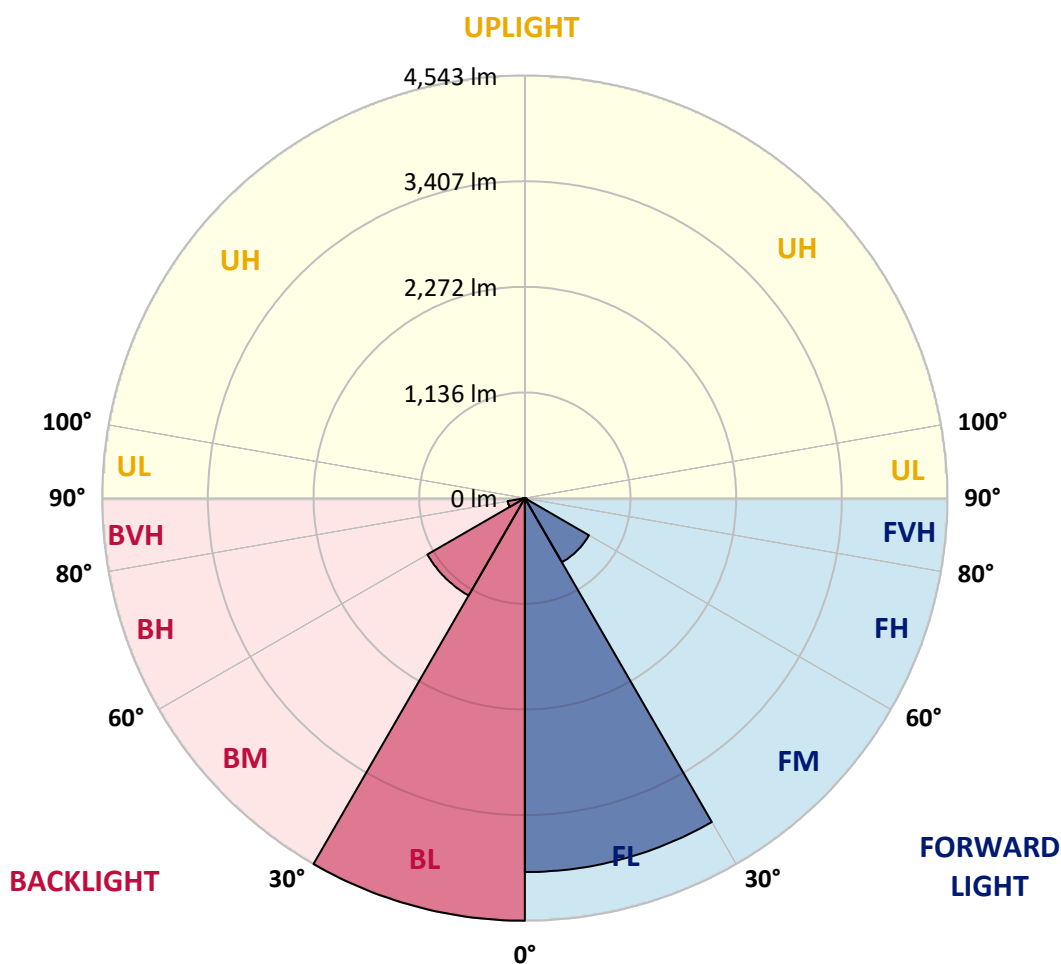
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4019.8	37.2			
FM	(30°-60°)	796.6	7.4			
FH	(60°-80°)	19.3	0.2			G0/660
FVH	(80°-90°)	2.0	0.0			G0/10
BL	(0°-30°)	4543.0	42.1	B4/5000		
BM	(30°-60°)	1210.1	11.2	B2/2500		
BH	(60°-80°)	187.6	1.7	B1/500		G1/500
BVH	(80°-90°)	20.8	0.2			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15044.2	15044.2	15044.2	15044.2	15044.2	15044.2	15044.2	15044.2	15044.2	15044.2
2.5°	14717.9	14767.7	14668.1	14734.1	14785.2	14907.2	14917.2	14959.5	14974.5	15085.3
5°	14439.0	14477.6	14396.6	14485.1	14557.3	14665.6	14749.1	14866.1	14930.9	15061.6
7.5°	14148.8	14157.6	14141.4	14234.8	14343.1	14492.5	14595.9	14749.1	14788.9	14975.7
10°	13797.7	13734.2	13765.3	13902.3	14064.2	14293.3	14364.3	14517.4	14588.4	14778.9
12.5°	13237.3	13269.7	13231.1	13405.4	13539.9	13800.2	13874.9	14029.3	14165.0	14333.1
15°	12447.8	12429.1	12507.6	12643.3	12789.0	12995.7	13116.5	13284.6	13388.0	13562.3
17.5°	10673.3	10736.8	11060.5	11400.5	11699.4	11941.0	12085.4	12224.9	12299.6	12488.9
20°	9217.5	9137.8	9181.4	9373.2	10223.7	10593.6	10745.5	10779.1	10810.2	10959.7
22.5°	7590.0	7563.8	7709.5	7924.9	8126.7	8979.7	9186.4	9108.0	9172.7	9313.4
25°	5636.1	5768.1	5897.6	6311.1	6572.6	6991.0	7383.2	7418.1	7441.8	7530.2
27.5°	4587.6	4541.5	4539.0	4654.8	5040.9	5389.6	5723.3	5800.5	5786.8	5871.5
30°	3606.3	3591.4	3539.1	3566.5	3527.9	3837.9	3994.8	4312.4	4295.0	4297.4
32.5°	2601.4	2545.3	2524.2	2565.3	2525.4	2496.8	2633.8	2992.4	2986.2	3011.1
35°	1574.0	1566.6	1584.0	1620.1	1540.4	1537.9	1566.6	1904.0	1945.1	1985.0
37.5°	869.2	861.7	875.4	1008.7	982.5	958.9	966.3	1144.4	1262.7	1292.6
40°	572.8	571.6	581.5	605.2	650.0	641.3	645.1	724.8	836.8	863.0
42.5°	383.5	384.8	391.0	418.4	424.6	469.5	462.0	480.7	585.3	607.7
45°	306.3	305.1	308.8	296.4	303.8	349.9	354.9	356.1	445.8	459.5
47.5°	241.6	241.6	245.3	229.1	225.4	254.0	280.2	283.9	356.1	374.8
50°	169.4	169.4	188.0	180.6	189.3	198.0	226.6	230.4	291.4	311.3
52.5°	124.5	127.0	129.5	130.8	159.4	158.2	183.1	200.5	220.4	255.3
55°	94.6	97.1	90.9	97.1	118.3	132.0	137.0	161.9	175.6	214.2
57.5°	62.3	68.5	63.5	74.7	79.7	102.1	109.6	133.2	142.0	175.6
60°	8.7	10.0	16.2	52.3	56.0	67.2	84.7	105.8	114.6	143.2
62.5°	1.2	1.2	3.7	8.7	37.4	44.8	63.5	73.5	84.7	107.1
65°	0.0	0.0	1.2	2.5	7.5	26.2	32.4	39.8	58.5	77.2
67.5°	0.0	0.0	1.2	2.5	3.7	8.7	13.7	26.2	33.6	53.5
70°	0.0	0.0	1.2	2.5	3.7	5.0	7.5	10.0	19.9	31.1
72.5°	0.0	0.0	1.2	2.5	3.7	5.0	6.2	7.5	8.7	19.9
75°	0.0	0.0	1.2	2.5	3.7	6.2	7.5	7.5	7.5	8.7
77.5°	0.0	0.0	1.2	2.5	5.0	7.5	8.7	7.5	6.2	6.2
80°	0.0	0.0	1.2	3.7	6.2	8.7	10.0	7.5	5.0	3.7
82.5°	0.0	0.0	1.2	3.7	6.2	8.7	10.0	8.7	5.0	3.7
85°	0.0	0.0	1.2	3.7	5.0	6.2	10.0	8.7	5.0	2.5
87.5°	0.0	0.0	0.0	1.2	1.2	2.5	5.0	3.7	2.5	1.2
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°
15044.2	0°	15044.2	15044.2	15044.2	15044.2	15044.2	15044.2	15044.2	15044.2	15044.2
15082.8	2.5°	15194.9	15250.9	15349.3	15376.7	15461.4	15364.2	15310.7	15315.7	15199.8
15045.4	5°	15194.9	15323.1	15495.0	15577.2	15639.4	15634.4	15620.8	15585.9	15501.2
14970.7	7.5°	15155.0	15364.2	15600.8	15710.4	15785.1	15778.9	15810.0	15754.0	15650.6
14837.5	10°	15026.8	15208.6	15500.0	15589.6	15710.4	15712.9	15674.3	15685.5	15501.2
14350.6	12.5°	14623.3	14765.2	15020.5	15122.6	15269.6	15293.2	15250.9	15234.7	15060.4
13552.3	15°	13842.5	13924.7	14181.2	14283.3	14429.0	14409.1	14451.4	14434.0	14280.8
12473.9	17.5°	12700.6	12726.7	12995.7	13081.6	13218.6	13272.2	13208.6	13289.6	13157.6
10985.8	20°	11063.0	11203.8	11506.4	11638.4	11718.1	11813.9	11730.5	11821.4	11667.0
9180.2	22.5°	9401.8	9485.3	9759.2	9949.8	10097.9	10116.6	10085.5	10149.0	9941.0
7588.7	25°	7587.5	7725.7	7942.4	8191.4	8337.1	8426.8	8345.8	8386.9	8353.3
5885.2	27.5°	5984.8	6108.1	6271.2	6456.8	6675.9	6793.0	6728.2	6798.0	6633.6
4388.4	30°	4392.1	4454.4	4638.7	4835.4	5075.7	5217.7	5223.9	5294.9	5197.8
3074.6	32.5°	3097.0	3151.8	3265.1	3395.9	3625.0	3783.2	3758.2	3768.2	3708.4
2003.7	35°	2013.6	2087.1	2168.0	2230.3	2368.5	2542.9	2529.2	2516.7	2475.6
1317.5	37.5°	1346.1	1374.8	1419.6	1475.7	1565.3	1674.9	1711.0	1666.2	1648.7
889.1	40°	910.3	960.1	990.0	1032.3	1074.7	1166.8	1191.7	1183.0	1165.6
622.6	42.5°	646.3	684.9	722.3	763.4	785.8	843.1	891.6	877.9	870.4
473.2	45°	490.6	525.5	569.1	600.2	622.6	656.3	702.3	707.3	696.1
379.8	47.5°	393.5	424.6	459.5	498.1	524.3	545.4	585.3	600.2	592.8
320.0	50°	333.7	357.4	391.0	429.6	458.3	476.9	511.8	528.0	523.0
267.7	52.5°	283.9	312.6	343.7	376.1	410.9	429.6	462.0	485.7	481.9
221.7	55°	235.4	272.7	305.1	337.5	377.3	396.0	424.6	455.8	449.5
188.0	57.5°	205.5	236.6	270.2	301.4	343.7	368.6	394.8	427.1	425.9
154.4	60°	171.8	203.0	240.3	266.5	311.3	346.2	369.8	403.5	406.0
117.1	62.5°	137.0	175.6	204.2	240.3	281.4	322.5	344.9	378.6	391.0
89.7	65°	102.1	144.5	176.8	212.9	251.5	297.6	317.5	351.2	363.6
64.8	67.5°	76.0	108.3	149.4	180.6	224.1	264.0	287.7	318.8	327.5
38.6	70°	57.3	83.4	124.5	151.9	196.8	229.1	252.8	276.5	287.7
26.2	72.5°	33.6	62.3	98.4	130.8	169.4	196.8	214.2	232.9	240.3
12.5	75°	23.7	47.3	77.2	108.3	137.0	159.4	175.6	191.8	199.2
6.2	77.5°	12.5	34.9	61.0	87.2	107.1	125.8	142.0	154.4	159.4
5.0	80°	7.5	24.9	49.8	68.5	82.2	98.4	114.6	123.3	122.0
3.7	82.5°	5.0	19.9	36.1	49.8	59.8	72.2	83.4	89.7	89.7
2.5	85°	3.7	13.7	24.9	38.6	39.8	49.8	52.3	58.5	59.8
2.5	87.5°	2.5	8.7	13.7	22.4	21.2	26.2	27.4	31.1	33.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
15044.2
15106.5
15528.6
15674.3
15447.7
15020.5
14329.4
13125.2
11654.5
9912.4
8332.1
6675.9
5215.2
3742.1
2439.5
1645.0
1168.1
864.2
694.9
589.0
521.8
479.4
449.5
424.6
406.0
389.8
362.4
327.5
285.2
237.8
196.8
158.2
120.8
88.4
58.5
32.4
0.0

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