

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: P636484

Luminaire Tested: **IFLD-S-SA3D-935-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636484
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-935-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5
distribution lens and Visor
Light Source: (48) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12806 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 184.1
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

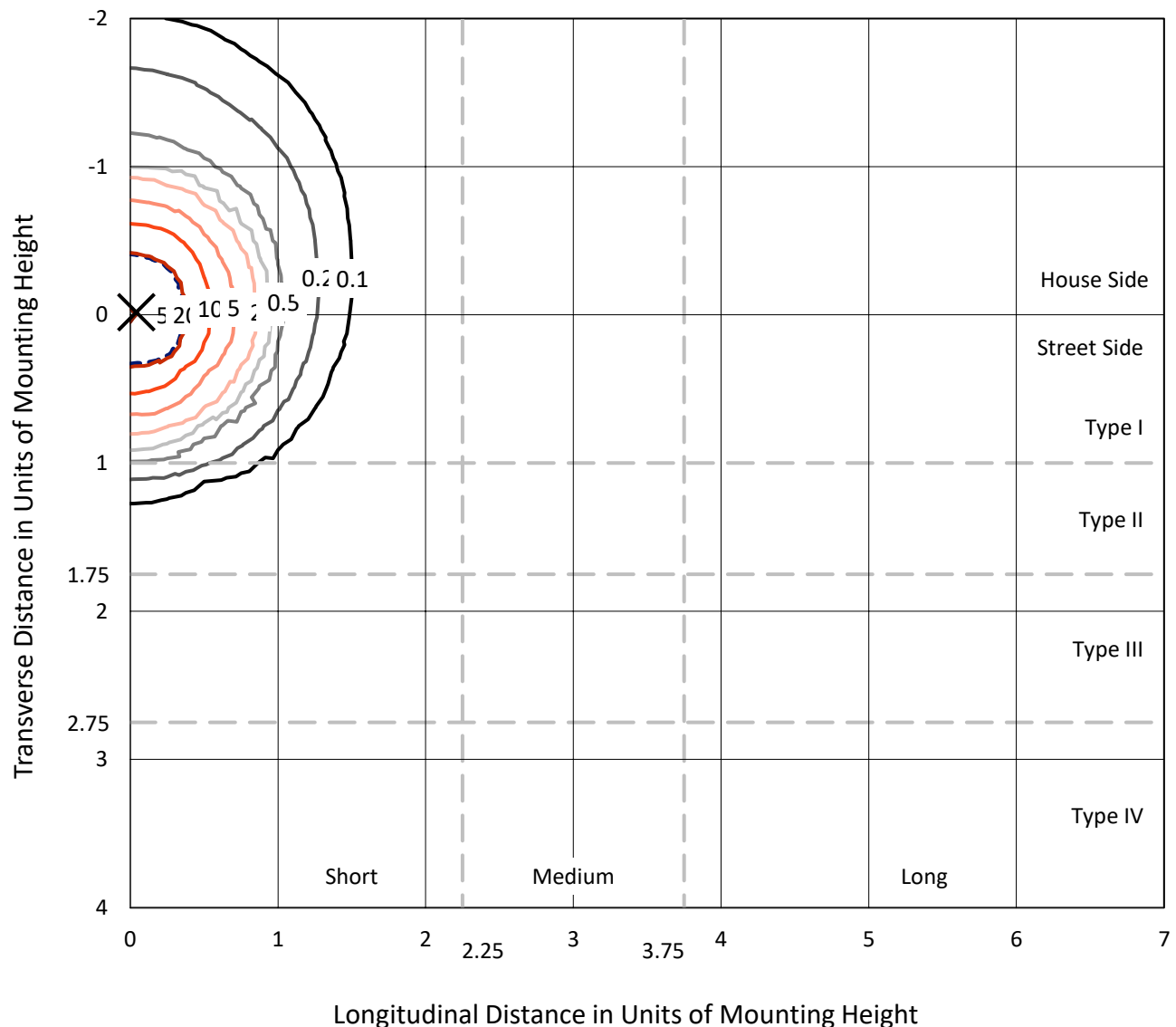


REPORT NUMBER: P636484

CATALOG NUMBER: IFLD-S-SA3D-935-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

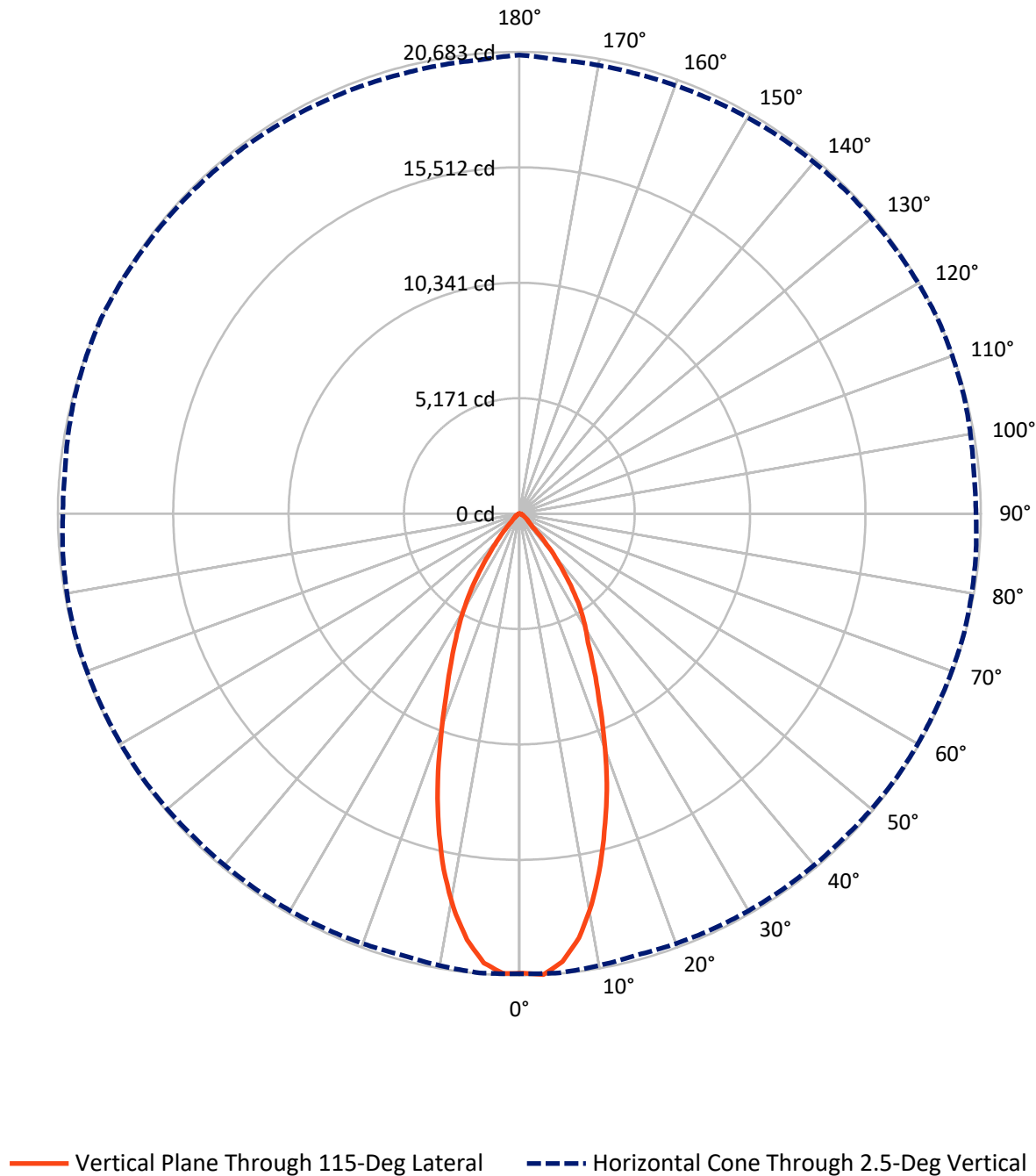


Based on 20 foot mounting height. Maximum calculated value = 51.5 fc
 Type I - Short - N/A

REPORT NUMBER: P636484

CATALOG NUMBER: IFLD-S-SA3D-935-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P636484

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7067.4	0.0	7067.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5738.6	0.0	5738.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	12806.0	0.0	12806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1846.4	14.4
10°-20°	3902.3	30.5
20°-30°	3522.0	27.5
30°-40°	2330.7	18.2
40°-50°	698.2	5.5
50°-60°	280.1	2.2
60°-70°	145.0	1.1
70°-80°	63.0	0.5
80°-90°	18.3	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°	12806.0	100.0
0°-180°	12806.0	100.0

Coefficient of Utilization



REPORT NUMBER: P636484

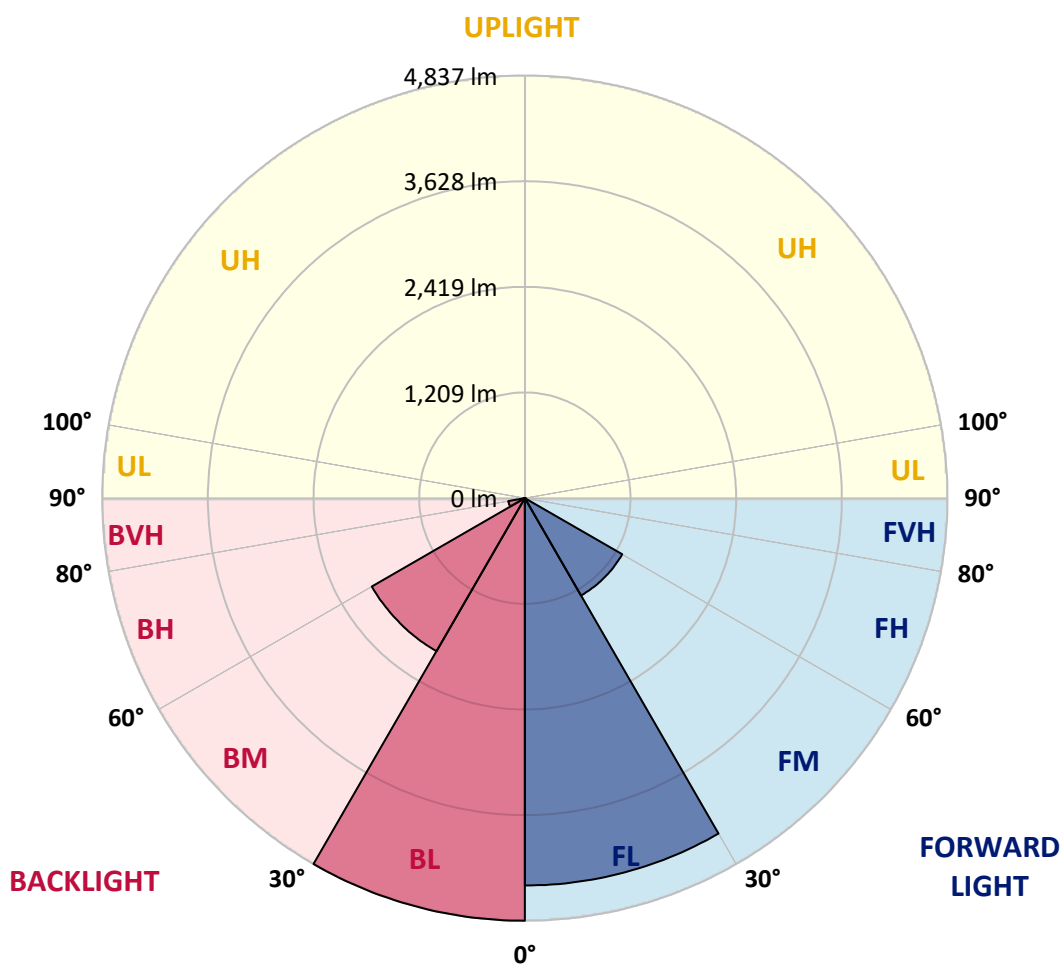
CATALOG NUMBER: IFLD-S-SA3D-935-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4433.5	34.6			
FM	(30°-60°)	1286.5	10.0			
FH	(60°-80°)	15.9	0.1			G0/660
FVH	(80°-90°)	2.6	0.0			G0/10
BL	(0°-30°)	4837.2	37.8	B4/5000		
BM	(30°-60°)	2022.5	15.8	B2/2500		
BH	(60°-80°)	192.1	1.5	B1/500		G1/500
BVH	(80°-90°)	15.7	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: P636484

CATALOG NUMBER: IFLD-S-SA3D-935-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20585.7	20585.7	20585.7	20585.7	20585.7	20585.7	20585.7	20585.7	20585.7	20585.7
2.5°	20611.9	20648.5	20465.2	20528.1	20554.3	20562.1	20627.6	20617.1	20635.4	20538.5
5°	20339.5	20268.8	20132.6	20135.2	20127.4	20054.0	20203.3	20192.8	20161.4	20046.2
7.5°	19412.4	19514.5	19257.8	19252.6	19247.4	19158.3	19354.7	19234.3	19260.5	19095.5
10°	18055.7	18068.8	17840.9	17820.0	17838.3	17723.1	17950.9	17903.8	17953.5	17780.7
12.5°	16392.6	16465.9	16214.5	16177.8	16251.2	16088.8	16272.1	16295.7	16222.4	16198.8
15°	12856.9	13050.7	13527.4	14255.5	14444.0	14307.8	14454.5	14451.9	14483.3	14305.2
17.5°	9795.2	9813.6	9700.9	10049.3	12065.9	12720.7	12752.1	12503.3	12314.7	12249.3
20°	8551.2	8614.0	8511.9	8540.7	8862.8	10782.6	10855.9	10481.4	10159.3	10133.1
22.5°	7561.2	7600.5	7527.1	7550.7	7566.4	7791.7	9067.1	8737.1	8582.6	8464.8
25°	6723.1	6723.1	6683.8	6691.7	6675.9	6343.3	6998.1	7375.2	7286.2	7244.3
27.5°	5958.3	5968.8	5919.0	5947.8	5756.7	5219.8	5141.2	6254.3	6160.0	6084.0
30°	5232.9	5266.9	5219.8	5235.5	4819.0	4379.0	4153.8	5217.1	5335.0	5314.0
32.5°	3939.0	4093.6	4473.3	4489.0	3923.3	3585.5	3485.9	4187.9	4635.7	4596.4
35°	2440.9	2433.1	2448.8	3203.1	3009.3	2778.8	2815.5	3163.8	3669.3	3650.9
37.5°	1862.1	1859.5	1888.3	1812.4	1972.1	2108.3	2137.1	2137.1	2679.3	2681.9
40°	1411.7	1401.2	1398.6	1278.1	1071.2	1581.9	1534.8	1495.5	1862.1	1901.4
42.5°	901.0	932.4	908.8	777.9	699.3	864.3	963.8	932.4	1149.8	1178.6
45°	502.9	502.9	481.9	408.6	406.0	437.4	550.0	513.3	589.3	628.6
47.5°	243.6	238.3	261.9	322.1	335.2	324.8	392.9	408.6	445.2	481.9
50°	196.4	196.4	186.0	167.6	277.6	267.1	290.7	311.7	332.6	364.0
52.5°	165.0	165.0	151.9	141.4	159.8	204.3	206.9	246.2	243.6	288.1
55°	83.8	86.4	123.1	123.1	107.4	167.6	170.2	199.0	204.3	241.0
57.5°	7.9	10.5	15.7	76.0	83.8	91.7	128.3	146.7	170.2	186.0
60°	2.6	2.6	5.2	10.5	49.8	62.9	81.2	96.9	117.9	154.5
62.5°	0.0	0.0	2.6	5.2	10.5	39.3	44.5	49.8	70.7	96.9
65°	0.0	0.0	2.6	2.6	5.2	13.1	18.3	31.4	44.5	60.2
67.5°	0.0	0.0	2.6	2.6	5.2	7.9	10.5	15.7	21.0	39.3
70°	0.0	0.0	2.6	2.6	5.2	7.9	7.9	10.5	13.1	18.3
72.5°	0.0	0.0	2.6	2.6	5.2	10.5	7.9	7.9	10.5	13.1
75°	0.0	0.0	2.6	2.6	5.2	7.9	7.9	7.9	7.9	7.9
77.5°	0.0	0.0	2.6	2.6	5.2	7.9	7.9	7.9	5.2	5.2
80°	0.0	0.0	2.6	2.6	5.2	7.9	10.5	10.5	5.2	5.2
82.5°	0.0	0.0	2.6	5.2	5.2	13.1	15.7	13.1	5.2	2.6
85°	0.0	0.0	2.6	2.6	7.9	13.1	13.1	7.9	5.2	2.6
87.5°	0.0	0.0	0.0	2.6	2.6	5.2	7.9	7.9	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P636484

CATALOG NUMBER: IFLD-S-SA3D-935-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
20585.7	0°	20585.7	20585.7	20585.7	20585.7	20585.7	20585.7	20585.7	20585.7	20585.7
20460.0	2.5°	20449.5	20609.3	20682.6	20606.6	20570.0	20517.6	20441.6	20389.3	20399.7
19983.3	5°	19938.8	20106.4	20164.0	20098.5	20043.5	20014.7	20001.6	20027.8	20095.9
19024.7	7.5°	19019.5	19126.9	19189.7	19158.3	19082.4	19168.8	19192.4	19176.6	19276.2
17728.3	10°	17733.5	17851.4	17793.8	17806.9	17717.8	17762.4	17749.3	17806.9	17906.4
16180.5	12.5°	16075.7	16188.3	16143.8	16135.9	16041.6	16125.5	16073.1	16135.9	16266.9
14231.9	15°	14334.0	14404.7	14375.9	14331.4	14247.6	14276.4	14438.8	14428.3	14485.9
12210.0	17.5°	12157.6	12498.1	12684.0	12723.3	12655.2	12712.8	12828.1	12799.3	12930.2
10078.1	20°	10059.7	10402.8	10861.2	11233.1	11240.9	11248.8	11322.1	11340.5	11453.1
8467.4	22.5°	8430.7	8674.3	9166.7	9659.0	9999.5	10070.2	10062.4	10088.6	10120.0
7186.7	25°	7168.3	7346.4	7796.9	8137.4	8734.5	8933.6	8991.2	8933.6	8951.9
6057.8	27.5°	6125.9	6398.3	6547.6	6911.7	7495.7	7956.7	7938.3	7904.3	7909.5
5272.1	30°	5269.5	5562.8	5782.8	5892.8	6332.8	6998.1	7066.2	6969.3	6971.9
4578.1	32.5°	4549.3	4640.9	4965.7	5054.8	5337.6	5942.6	6175.7	6102.4	6089.3
3661.4	35°	3768.8	3818.6	3967.9	4143.3	4310.9	4769.3	5154.3	5086.2	5120.2
2692.4	37.5°	2681.9	2886.2	3030.2	3174.3	3294.8	3582.9	4046.4	3983.6	4017.6
1906.7	40°	1890.9	1982.6	2231.4	2294.3	2472.4	2605.9	2998.8	2977.9	3019.8
1183.8	42.5°	1162.9	1228.3	1354.0	1414.3	1534.8	1610.7	1841.2	1867.4	1922.4
654.8	45°	660.0	688.8	775.2	840.7	929.8	961.2	1042.4	1079.0	1110.5
508.1	47.5°	502.9	534.3	591.9	649.5	722.9	749.0	806.7	861.7	890.5
392.9	50°	411.2	440.0	500.2	547.4	620.7	644.3	691.4	751.7	788.3
298.6	52.5°	311.7	353.6	426.9	476.7	552.6	581.4	626.0	686.2	720.2
246.2	55°	256.7	288.1	353.6	421.7	492.4	531.7	560.5	633.8	670.5
201.7	57.5°	220.0	243.6	285.5	366.7	426.9	484.5	508.1	576.2	612.9
159.8	60°	167.6	204.3	241.0	303.8	371.9	432.1	458.3	518.6	547.4
115.2	62.5°	138.8	162.4	209.5	243.6	319.5	382.4	408.6	463.6	484.5
76.0	65°	96.9	131.0	175.5	196.4	267.1	327.4	364.0	406.0	426.9
44.5	67.5°	57.6	96.9	138.8	167.6	217.4	277.6	316.9	356.2	374.5
26.2	70°	36.7	76.0	110.0	141.4	170.2	227.9	275.0	309.0	301.2
15.7	72.5°	21.0	47.1	81.2	115.2	141.4	191.2	235.7	261.9	186.0
10.5	75°	13.1	34.0	68.1	94.3	115.2	151.9	193.8	199.0	115.2
5.2	77.5°	10.5	26.2	52.4	76.0	78.6	112.6	136.2	154.5	86.4
5.2	80°	5.2	21.0	44.5	62.9	49.8	78.6	104.8	120.5	68.1
2.6	82.5°	5.2	13.1	34.0	44.5	36.7	60.2	76.0	86.4	57.6
2.6	85°	2.6	10.5	18.3	26.2	26.2	39.3	34.0	41.9	36.7
2.6	87.5°	2.6	5.2	10.5	13.1	10.5	15.7	18.3	18.3	15.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
20585.7
20541.2
20237.4
19375.7
17945.7
16290.5
14499.0
12909.3
11429.5
10062.4
8923.1
7917.4
6974.5
6120.7
5151.7
4046.4
3035.5
1985.2
1107.9
903.6
804.0
743.8
681.0
628.6
552.6
487.1
426.9
371.9
277.6
165.0
107.4
86.4
70.7
62.9
36.7
13.1
0.0

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