

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: P636502

Luminaire Tested: **IFLD-L-SA8B-935-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636502
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-935-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22361.9 lumens
Efficiency: N/A
Efficacy: 69.9 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): 320
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



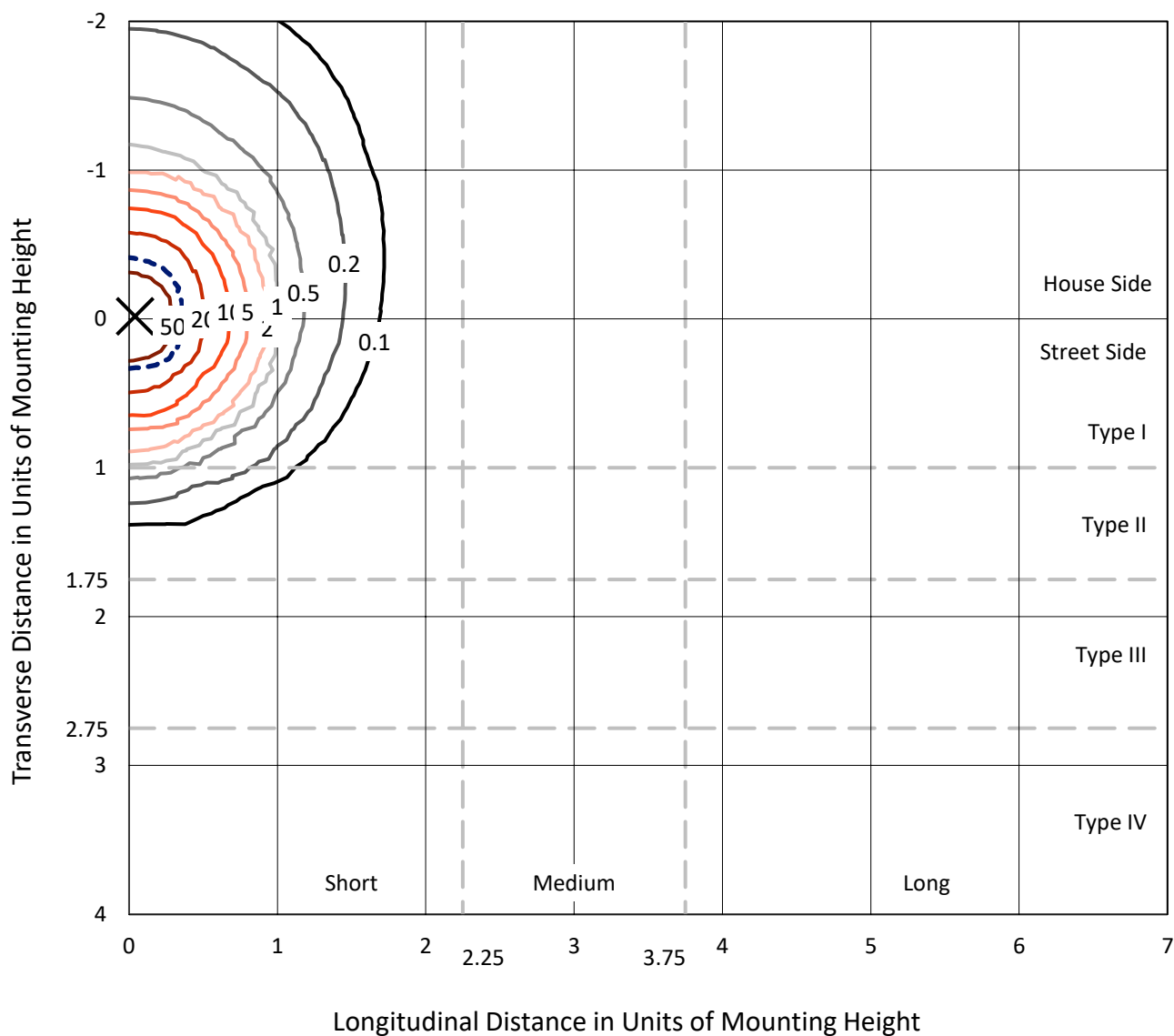
REPORT NUMBER: P636502

CATALOG NUMBER: IFLD-L-SA8B-935-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

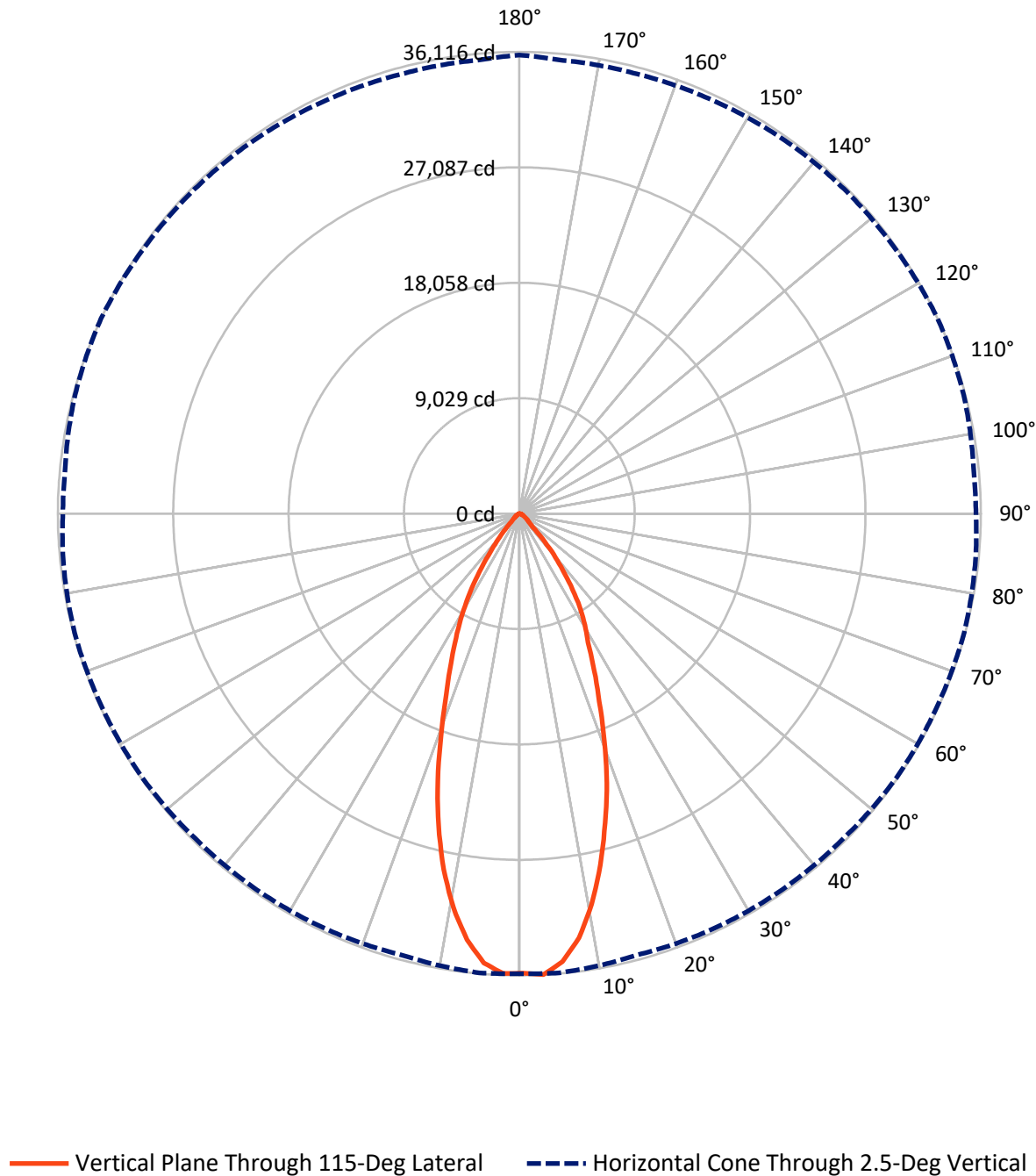


Based on 20 foot mounting height. Maximum calculated value = 89.9 fc

Type I - Short - N/A

REPORT NUMBER: P636502
CATALOG NUMBER: IFLD-L-SA8B-935-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P636502

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12341.1	0.0	12341.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	10020.7	0.0	10020.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	22361.9	0.0	22361.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3224.1	14.4
10°-20°	6814.1	30.5
20°-30°	6150.2	27.5
30°-40°	4069.9	18.2
40°-50°	1219.2	5.5
50°-60°	489.1	2.2
60°-70°	253.3	1.1
70°-80°	109.9	0.5
80°-90°	32.0	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°	22361.9	100.0
0°-180°	22361.9	100.0

Coefficient of Utilization



REPORT NUMBER: P636502

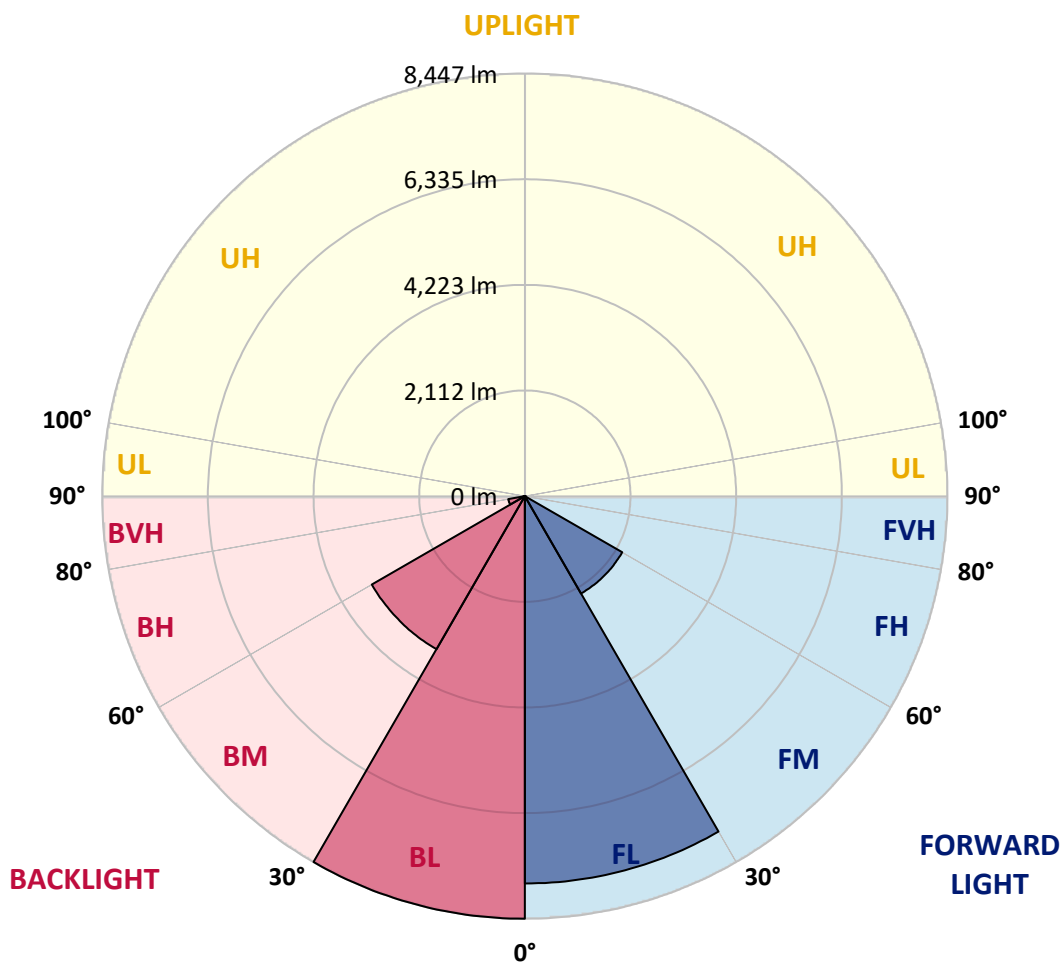
CATALOG NUMBER: IFLD-L-SA8B-935-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7741.9	34.6			
FM	(30°-60°)	2246.4	10.0			
FH	(60°-80°)	27.8	0.1			G0/660
FVH	(80°-90°)	4.6	0.0			G0/10
BL	(0°-30°)	8446.6	37.8	B5		
BM	(30°-60°)	3531.7	15.8	B3/5000		
BH	(60°-80°)	335.4	1.5	B1/500		G1/500
BVH	(80°-90°)	27.4	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



REPORT NUMBER: P636502

CATALOG NUMBER: IFLD-L-SA8B-935-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	35946.7	35946.7	35946.7	35946.7	35946.7	35946.7	35946.7	35946.7	35946.7	35946.7
2.5°	35992.4	36056.5	35736.3	35846.1	35891.8	35905.6	36019.9	36001.6	36033.6	35864.4
5°	35516.8	35393.3	35155.5	35160.1	35146.4	35018.3	35279.0	35260.7	35205.8	35004.6
7.5°	33897.8	34076.2	33628.0	33618.9	33609.7	33454.2	33797.2	33586.9	33632.6	33344.5
10°	31528.8	31551.7	31153.8	31117.2	31149.2	30948.0	31345.9	31263.6	31350.5	31048.6
12.5°	28624.7	28752.8	28313.8	28249.7	28377.8	28094.2	28414.4	28455.5	28327.5	28286.3
15°	22450.7	22789.1	23621.5	24892.9	25222.2	24984.3	25240.4	25235.9	25290.8	24979.8
17.5°	17104.4	17136.4	16939.8	17548.0	21069.5	22212.9	22267.8	21833.3	21504.0	21389.7
20°	14932.1	15041.8	14863.5	14913.8	15476.3	18828.6	18956.6	18302.6	17740.1	17694.4
22.5°	13203.3	13271.9	13143.9	13185.0	13212.5	13605.8	15833.0	15256.8	14986.9	14781.1
25°	11739.8	11739.8	11671.2	11685.0	11657.5	11076.7	12220.1	12878.6	12723.1	12649.9
27.5°	10404.4	10422.7	10335.8	10386.1	10052.3	9114.7	8977.5	10921.2	10756.6	10623.9
30°	9137.6	9197.1	9114.7	9142.2	8415.0	7646.7	7253.4	9110.2	9316.0	9279.4
32.5°	6878.4	7148.2	7811.3	7838.8	6850.9	6260.9	6087.2	7312.8	8094.9	8026.3
35°	4262.4	4248.7	4276.1	5593.2	5254.8	4852.3	4916.4	5524.6	6407.3	6375.3
37.5°	3251.7	3247.1	3297.4	3164.8	3443.7	3681.6	3731.9	3731.9	4678.6	4683.1
40°	2465.0	2446.8	2442.2	2231.8	1870.5	2762.3	2680.0	2611.4	3251.7	3320.3
42.5°	1573.2	1628.1	1587.0	1358.3	1221.1	1509.2	1683.0	1628.1	2007.7	2058.0
45°	878.1	878.1	841.5	713.4	708.9	763.8	960.4	896.4	1029.0	1097.6
47.5°	425.3	416.2	457.3	562.5	585.4	567.1	686.0	713.4	777.5	841.5
50°	343.0	343.0	324.7	292.7	484.8	466.5	507.6	544.2	580.8	635.7
52.5°	288.1	288.1	265.3	247.0	279.0	356.7	361.3	429.9	425.3	503.1
55°	146.3	150.9	214.9	214.9	187.5	292.7	297.3	347.6	356.7	420.8
57.5°	13.7	18.3	27.4	132.6	146.3	160.1	224.1	256.1	297.3	324.7
60°	4.6	4.6	9.1	18.3	86.9	109.8	141.8	169.2	205.8	269.8
62.5°	0.0	0.0	4.6	9.1	18.3	68.6	77.7	86.9	123.5	169.2
65°	0.0	0.0	4.6	4.6	9.1	22.9	32.0	54.9	77.7	105.2
67.5°	0.0	0.0	4.6	4.6	9.1	13.7	18.3	27.4	36.6	68.6
70°	0.0	0.0	4.6	4.6	9.1	13.7	13.7	18.3	22.9	32.0
72.5°	0.0	0.0	4.6	4.6	9.1	18.3	13.7	13.7	18.3	22.9
75°	0.0	0.0	4.6	4.6	9.1	13.7	13.7	13.7	13.7	13.7
77.5°	0.0	0.0	4.6	4.6	9.1	13.7	13.7	13.7	9.1	9.1
80°	0.0	0.0	4.6	4.6	9.1	13.7	18.3	18.3	9.1	9.1
82.5°	0.0	0.0	4.6	9.1	9.1	22.9	27.4	22.9	9.1	4.6
85°	0.0	0.0	4.6	4.6	13.7	22.9	22.9	13.7	9.1	4.6
87.5°	0.0	0.0	0.0	4.6	4.6	9.1	13.7	13.7	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P636502

CATALOG NUMBER: IFLD-L-SA8B-935-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
35946.7	0°	35946.7	35946.7	35946.7	35946.7	35946.7	35946.7	35946.7	35946.7	35946.7
35727.2	2.5°	35708.9	35987.9	36115.9	35983.3	35919.3	35827.8	35695.2	35603.7	35622.0
34894.8	5°	34817.1	35109.8	35210.4	35096.1	35000.0	34949.7	34926.9	34972.6	35091.5
33221.0	7.5°	33211.8	33399.3	33509.1	33454.2	33321.6	33472.5	33513.7	33486.2	33660.0
30957.2	10°	30966.3	31172.1	31071.5	31094.4	30938.9	31016.6	30993.7	31094.4	31268.2
28254.3	12.5°	28071.4	28268.0	28190.3	28176.6	28011.9	28158.3	28066.8	28176.6	28405.2
24851.7	15°	25030.1	25153.6	25103.2	25025.5	24879.1	24929.5	25213.0	25194.7	25295.3
21321.1	17.5°	21229.6	21824.1	22148.8	22217.4	22098.5	22199.2	22400.4	22350.1	22578.7
17598.3	20°	17566.3	18165.4	18965.8	19615.2	19628.9	19642.6	19770.7	19802.7	19999.4
14785.7	22.5°	14721.7	15147.0	16006.8	16866.6	17461.1	17584.6	17570.9	17616.6	17671.5
12549.3	25°	12517.3	12828.3	13614.9	14209.5	15252.2	15599.8	15700.4	15599.8	15631.8
10578.2	27.5°	10697.1	11172.8	11433.4	12069.1	13089.0	13893.9	13861.9	13802.4	13811.6
9206.2	30°	9201.6	9713.8	10098.0	10290.1	11058.4	12220.1	12339.0	12169.7	12174.3
7994.3	32.5°	7943.9	8104.0	8671.1	8826.6	9320.5	10377.0	10784.0	10656.0	10633.1
6393.6	35°	6581.1	6668.0	6928.7	7235.1	7527.8	8328.1	9000.4	8881.5	8940.9
4701.4	37.5°	4683.1	5039.9	5291.4	5542.9	5753.3	6256.4	7065.9	6956.1	7015.6
3329.4	40°	3302.0	3462.0	3896.5	4006.3	4317.3	4550.5	5236.5	5199.9	5273.1
2067.2	42.5°	2030.6	2144.9	2364.4	2469.6	2680.0	2812.6	3215.1	3260.8	3356.9
1143.3	45°	1152.5	1202.8	1353.7	1468.1	1623.5	1678.4	1820.2	1884.2	1939.1
887.2	47.5°	878.1	933.0	1033.6	1134.2	1262.3	1308.0	1408.6	1504.6	1554.9
686.0	50°	718.0	768.3	873.5	955.8	1083.9	1125.0	1207.4	1312.6	1376.6
521.4	52.5°	544.2	617.4	745.5	832.4	965.0	1015.3	1093.0	1198.2	1257.7
429.9	55°	448.2	503.1	617.4	736.3	859.8	928.4	978.7	1106.8	1170.8
352.1	57.5°	384.2	425.3	498.5	640.3	745.5	846.1	887.2	1006.1	1070.2
279.0	60°	292.7	356.7	420.8	530.5	649.4	754.6	800.3	905.5	955.8
201.2	62.5°	242.4	283.5	365.9	425.3	558.0	667.7	713.4	809.5	846.1
132.6	65°	169.2	228.7	306.4	343.0	466.5	571.7	635.7	708.9	745.5
77.7	67.5°	100.6	169.2	242.4	292.7	379.6	484.8	553.4	622.0	654.0
45.7	70°	64.0	132.6	192.1	247.0	297.3	397.9	480.2	539.7	525.9
27.4	72.5°	36.6	82.3	141.8	201.2	247.0	333.9	411.6	457.3	324.7
18.3	75°	22.9	59.5	118.9	164.6	201.2	265.3	338.4	347.6	201.2
9.1	77.5°	18.3	45.7	91.5	132.6	137.2	196.7	237.8	269.8	150.9
9.1	80°	9.1	36.6	77.7	109.8	86.9	137.2	182.9	210.4	118.9
4.6	82.5°	9.1	22.9	59.5	77.7	64.0	105.2	132.6	150.9	100.6
4.6	85°	4.6	18.3	32.0	45.7	45.7	68.6	59.5	73.2	64.0
4.6	87.5°	4.6	9.1	18.3	22.9	18.3	27.4	32.0	32.0	27.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
35946.7
35869.0
35338.5
33833.8
31336.8
28446.4
25318.2
22542.2
19958.2
17570.9
15581.5
13825.3
12178.9
10688.0
8995.8
7065.9
5300.5
3466.6
1934.5
1577.8
1404.0
1298.8
1189.1
1097.6
965.0
850.6
745.5
649.4
484.8
288.1
187.5
150.9
123.5
109.8
64.0
22.9
0.0

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