

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: P636436

Luminaire Tested: **IFLD-M-SA4D-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636436
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16389.1 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 249.7
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



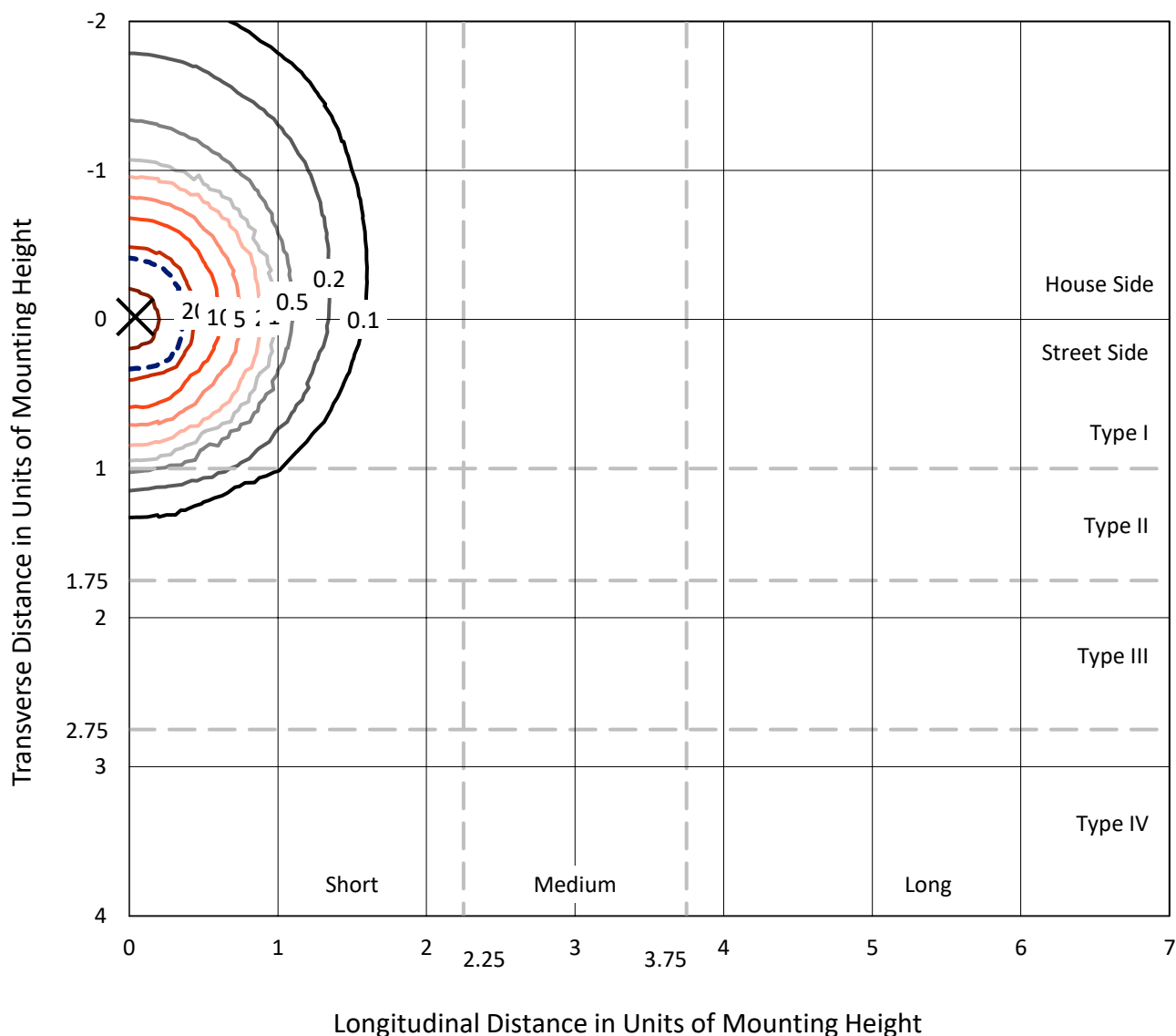
REPORT NUMBER: P636436

CATALOG NUMBER: IFLD-M-SA4D-927-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

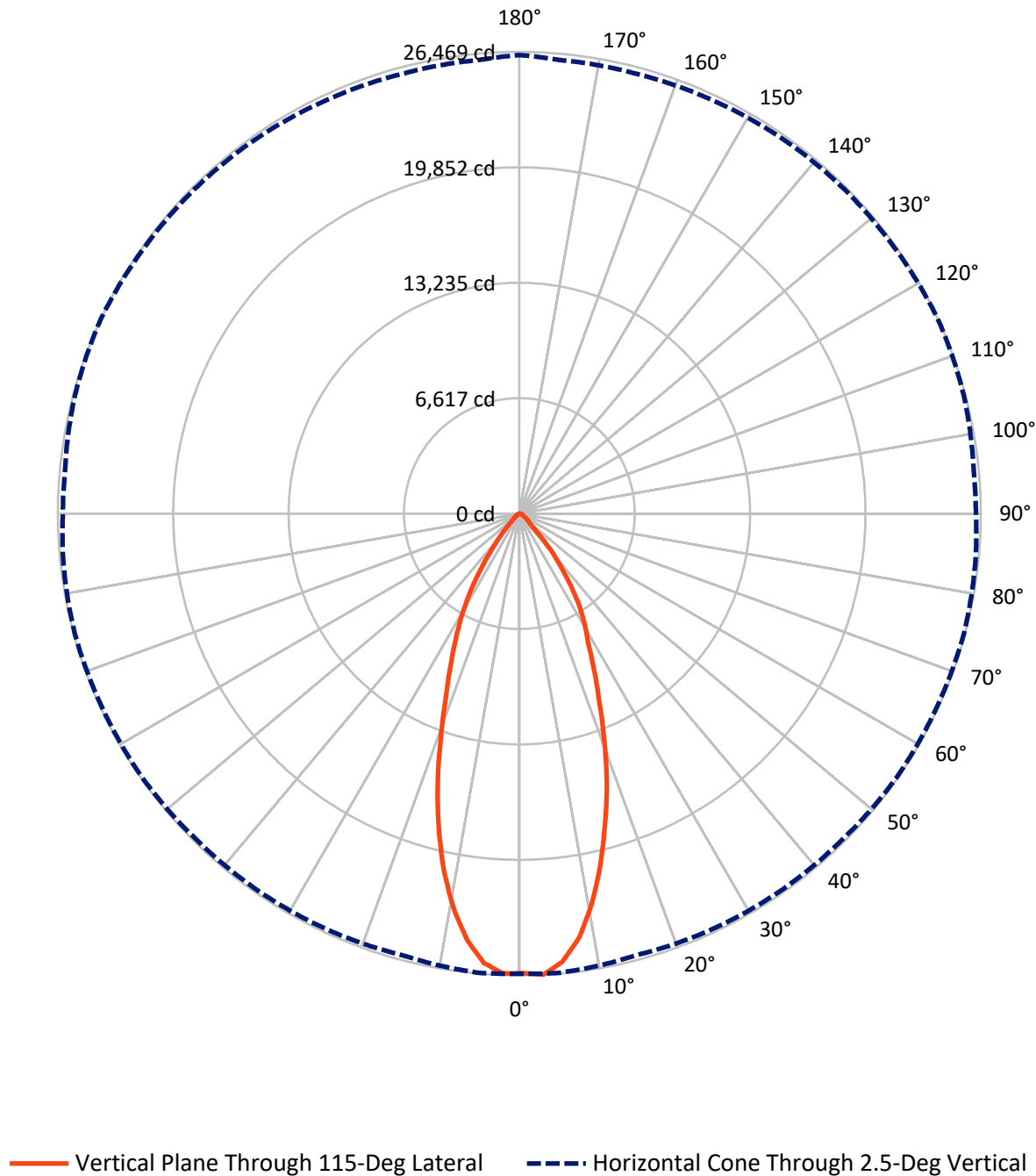


Based on 20 foot mounting height. Maximum calculated value = 65.9 fc

Type I - Short - N/A

REPORT NUMBER: P636436
CATALOG NUMBER: IFLD-M-SA4D-927-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P636436

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9044.8	0.0	9044.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7344.2	0.0	7344.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	16389.1	0.0	16389.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2363.0	14.4
10°-20°	4994.1	30.5
20°-30°	4507.5	27.5
30°-40°	2982.9	18.2
40°-50°	893.5	5.5
50°-60°	358.4	2.2
60°-70°	185.6	1.1
70°-80°	80.6	0.5
80°-90°	23.5	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°	16389.1	100.0
0°-180°	16389.1	100.0

Coefficient of Utilization



REPORT NUMBER: P636436

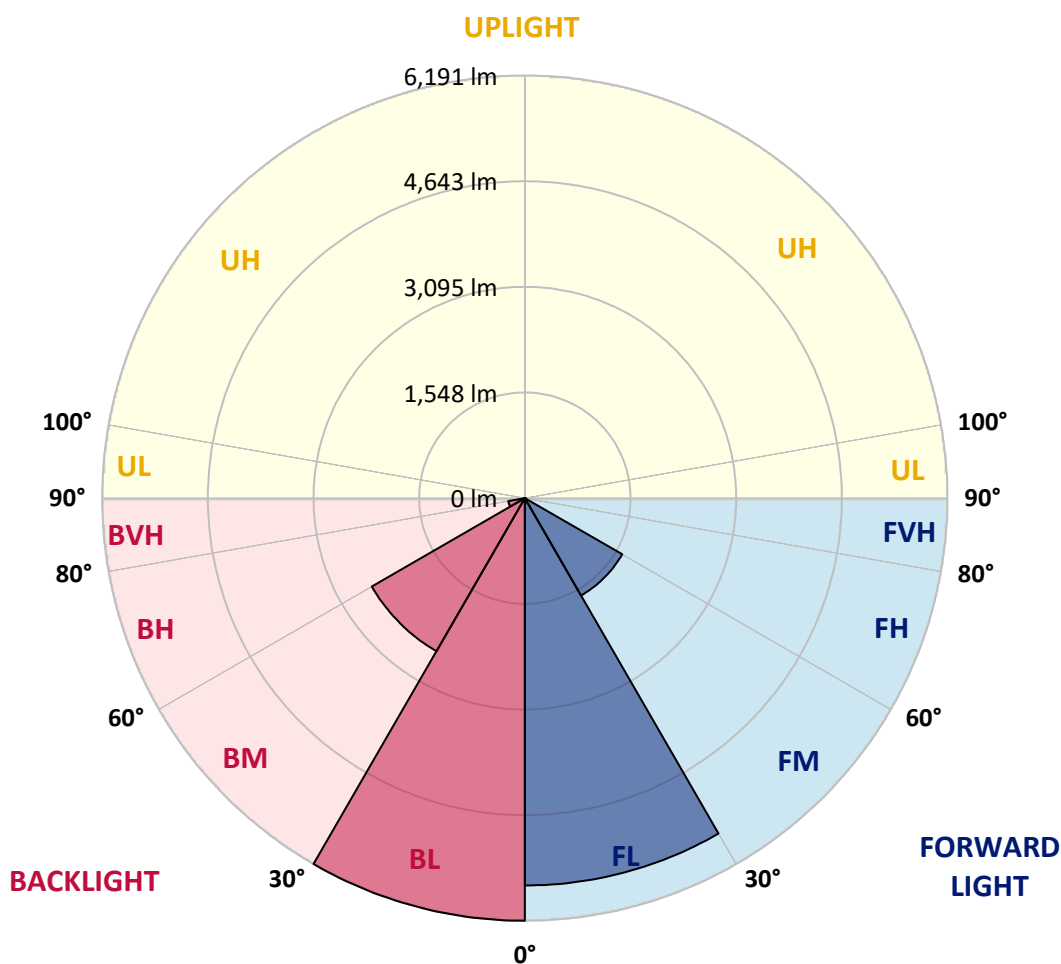
CATALOG NUMBER: IFLD-M-SA4D-927-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5674.0	34.6			
FM	(30°-60°)	1646.4	10.0			
FH	(60°-80°)	20.4	0.1			G0/660
FVH	(80°-90°)	3.4	0.0			G0/10
BL	(0°-30°)	6190.6	37.8	B5		
BM	(30°-60°)	2588.4	15.8	B3/5000		
BH	(60°-80°)	245.8	1.5	B1/500		G1/500
BVH	(80°-90°)	20.1	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: P636436

CATALOG NUMBER: IFLD-M-SA4D-927-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	26345.4	26345.4	26345.4	26345.4	26345.4	26345.4	26345.4	26345.4	26345.4	26345.4
2.5°	26378.9	26425.8	26191.2	26271.6	26305.1	26315.2	26399.0	26385.6	26409.1	26285.0
5°	26030.3	25939.8	25765.5	25768.9	25758.8	25665.0	25856.0	25842.6	25802.4	25654.9
7.5°	24843.8	24974.5	24646.0	24639.3	24632.6	24518.6	24770.0	24615.8	24649.3	24438.2
10°	23107.5	23124.3	22832.7	22805.8	22829.3	22681.8	22973.4	22913.1	22976.8	22755.6
12.5°	20979.1	21072.9	20751.2	20704.2	20798.1	20590.3	20824.9	20855.1	20761.2	20731.1
15°	16454.1	16702.2	17312.2	18244.0	18485.3	18311.0	18498.7	18495.4	18535.6	18307.7
17.5°	12535.8	12559.3	12415.2	12861.0	15441.9	16279.8	16320.1	16001.6	15760.3	15676.5
20°	10943.7	11024.2	10893.4	10930.3	11342.6	13799.5	13893.3	13414.0	13001.7	12968.2
22.5°	9676.7	9727.0	9633.2	9663.3	9683.4	9971.7	11604.0	11181.7	10983.9	10833.1
25°	8604.1	8604.1	8553.9	8563.9	8543.8	8118.1	8956.1	9438.7	9324.8	9271.2
27.5°	7625.4	7638.8	7575.1	7612.0	7367.3	6680.2	6579.6	8004.2	7883.5	7786.3
30°	6697.0	6740.5	6680.2	6700.3	6167.4	5604.3	5316.0	6676.8	6827.7	6800.9
32.5°	5041.2	5238.9	5724.9	5745.0	5021.0	4588.7	4461.3	5359.6	5932.7	5882.5
35°	3123.9	3113.8	3134.0	4099.3	3851.3	3556.3	3603.2	4049.0	4695.9	4672.4
37.5°	2383.2	2379.8	2416.7	2319.5	2523.9	2698.2	2735.1	2735.1	3428.9	3432.3
40°	1806.6	1793.2	1789.9	1635.7	1370.9	2024.5	1964.2	1913.9	2383.2	2433.4
42.5°	1153.0	1193.3	1163.1	995.5	894.9	1106.1	1233.5	1193.3	1471.5	1508.3
45°	643.6	643.6	616.7	522.9	519.5	559.8	703.9	657.0	754.2	804.4
47.5°	311.7	305.0	335.2	412.3	429.0	415.6	502.8	522.9	569.8	616.7
50°	251.4	251.4	238.0	214.5	355.3	341.9	372.1	398.9	425.7	465.9
52.5°	211.2	211.2	194.4	181.0	204.5	261.4	264.8	315.1	311.7	368.7
55°	107.3	110.6	157.5	157.5	137.4	214.5	217.9	254.7	261.4	308.4
57.5°	10.1	13.4	20.1	97.2	107.3	117.3	164.2	187.7	217.9	238.0
60°	3.4	3.4	6.7	13.4	63.7	80.4	103.9	124.0	150.8	197.8
62.5°	0.0	0.0	3.4	6.7	13.4	50.3	57.0	63.7	90.5	124.0
65°	0.0	0.0	3.4	3.4	6.7	16.8	23.5	40.2	57.0	77.1
67.5°	0.0	0.0	3.4	3.4	6.7	10.1	13.4	20.1	26.8	50.3
70°	0.0	0.0	3.4	3.4	6.7	10.1	10.1	13.4	16.8	23.5
72.5°	0.0	0.0	3.4	3.4	6.7	13.4	10.1	10.1	13.4	16.8
75°	0.0	0.0	3.4	3.4	6.7	10.1	10.1	10.1	10.1	10.1
77.5°	0.0	0.0	3.4	3.4	6.7	10.1	10.1	10.1	6.7	6.7
80°	0.0	0.0	3.4	3.4	6.7	10.1	13.4	13.4	6.7	6.7
82.5°	0.0	0.0	3.4	6.7	6.7	16.8	20.1	16.8	6.7	3.4
85°	0.0	0.0	3.4	3.4	10.1	16.8	16.8	10.1	6.7	3.4
87.5°	0.0	0.0	0.0	3.4	3.4	6.7	10.1	10.1	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P636436

CATALOG NUMBER: IFLD-M-SA4D-927-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
26345.4	0°	26345.4	26345.4	26345.4	26345.4	26345.4	26345.4	26345.4	26345.4	26345.4
26184.5	2.5°	26171.1	26375.5	26469.4	26372.2	26325.3	26258.2	26161.0	26094.0	26107.4
25574.5	5°	25517.5	25732.0	25805.7	25721.9	25651.5	25614.7	25597.9	25631.4	25718.6
24347.7	7.5°	24341.0	24478.4	24558.8	24518.6	24421.4	24532.0	24562.2	24542.1	24669.5
22688.5	10°	22695.2	22846.1	22772.3	22789.1	22675.1	22732.1	22715.3	22789.1	22916.5
20707.6	12.5°	20573.5	20717.7	20660.7	20650.6	20529.9	20637.2	20570.2	20650.6	20818.2
18213.8	15°	18344.6	18435.1	18398.2	18341.2	18233.9	18270.8	18478.6	18465.2	18539.0
15626.2	17.5°	15559.2	15994.9	16232.9	16283.2	16196.0	16269.8	16417.3	16380.4	16548.0
12897.8	20°	12874.4	13313.5	13900.0	14376.0	14386.0	14396.1	14490.0	14513.4	14657.5
10836.5	22.5°	10789.5	11101.3	11731.4	12361.5	12797.3	12887.8	12877.7	12911.2	12951.5
9197.4	25°	9174.0	9401.9	9978.4	10414.1	11178.3	11433.1	11506.8	11433.1	11456.5
7752.8	27.5°	7839.9	8188.5	8379.6	8845.5	9592.9	10182.9	10159.4	10115.8	10122.5
6747.2	30°	6743.9	7119.3	7400.8	7541.6	8104.7	8956.1	9043.2	8919.2	8922.6
5859.0	32.5°	5822.1	5939.4	6355.1	6469.0	6831.0	7605.3	7903.6	7809.8	7793.0
4685.9	35°	4823.3	4887.0	5078.0	5302.6	5517.1	6103.7	6596.4	6509.3	6552.8
3445.7	37.5°	3432.3	3693.7	3878.1	4062.4	4216.6	4585.3	5178.6	5098.1	5141.7
2440.1	40°	2420.0	2537.3	2855.8	2936.2	3164.1	3335.1	3837.8	3811.0	3864.7
1515.0	42.5°	1488.2	1572.0	1732.9	1810.0	1964.2	2061.4	2356.3	2389.9	2460.2
838.0	45°	844.7	881.5	992.1	1075.9	1189.9	1230.1	1334.0	1381.0	1421.2
650.3	47.5°	643.6	683.8	757.5	831.3	925.1	958.6	1032.4	1102.8	1139.6
502.8	50°	526.2	563.1	640.2	700.5	794.4	824.5	884.9	962.0	1008.9
382.1	52.5°	398.9	452.5	546.3	610.0	707.2	744.1	801.1	878.2	921.8
315.1	55°	328.5	368.7	452.5	539.6	630.1	680.4	717.3	811.1	858.1
258.1	57.5°	281.6	311.7	365.3	469.3	546.3	620.1	650.3	737.4	784.3
204.5	60°	214.5	261.4	308.4	388.8	476.0	553.1	586.6	663.7	700.5
147.5	62.5°	177.6	207.8	268.1	311.7	408.9	489.4	522.9	593.3	620.1
97.2	65°	124.0	167.6	224.6	251.4	341.9	419.0	465.9	519.5	546.3
57.0	67.5°	73.7	124.0	177.6	214.5	278.2	355.3	405.6	455.8	479.3
33.5	70°	46.9	97.2	140.8	181.0	217.9	291.6	351.9	395.5	385.5
20.1	72.5°	26.8	60.3	103.9	147.5	181.0	244.7	301.7	335.2	238.0
13.4	75°	16.8	43.6	87.1	120.7	147.5	194.4	248.0	254.7	147.5
6.7	77.5°	13.4	33.5	67.0	97.2	100.6	144.1	174.3	197.8	110.6
6.7	80°	6.7	26.8	57.0	80.4	63.7	100.6	134.1	154.2	87.1
3.4	82.5°	6.7	16.8	43.6	57.0	46.9	77.1	97.2	110.6	73.7
3.4	85°	3.4	13.4	23.5	33.5	33.5	50.3	43.6	53.6	46.9
3.4	87.5°	3.4	6.7	13.4	16.8	13.4	20.1	23.5	23.5	20.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
26345.4
26288.4
25899.6
24796.8
22966.7
20848.4
18555.7
16521.2
14627.4
12877.7
11419.7
10132.6
8925.9
7833.2
6593.0
5178.6
3884.8
2540.7
1417.8
1156.4
1029.0
951.9
871.5
804.4
707.2
623.4
546.3
476.0
355.3
211.2
137.4
110.6
90.5
80.4
46.9
16.8
0.0

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