

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: P636429

Luminaire Tested: **IFLD-S-SA6B-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636429
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17487 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 244.9
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



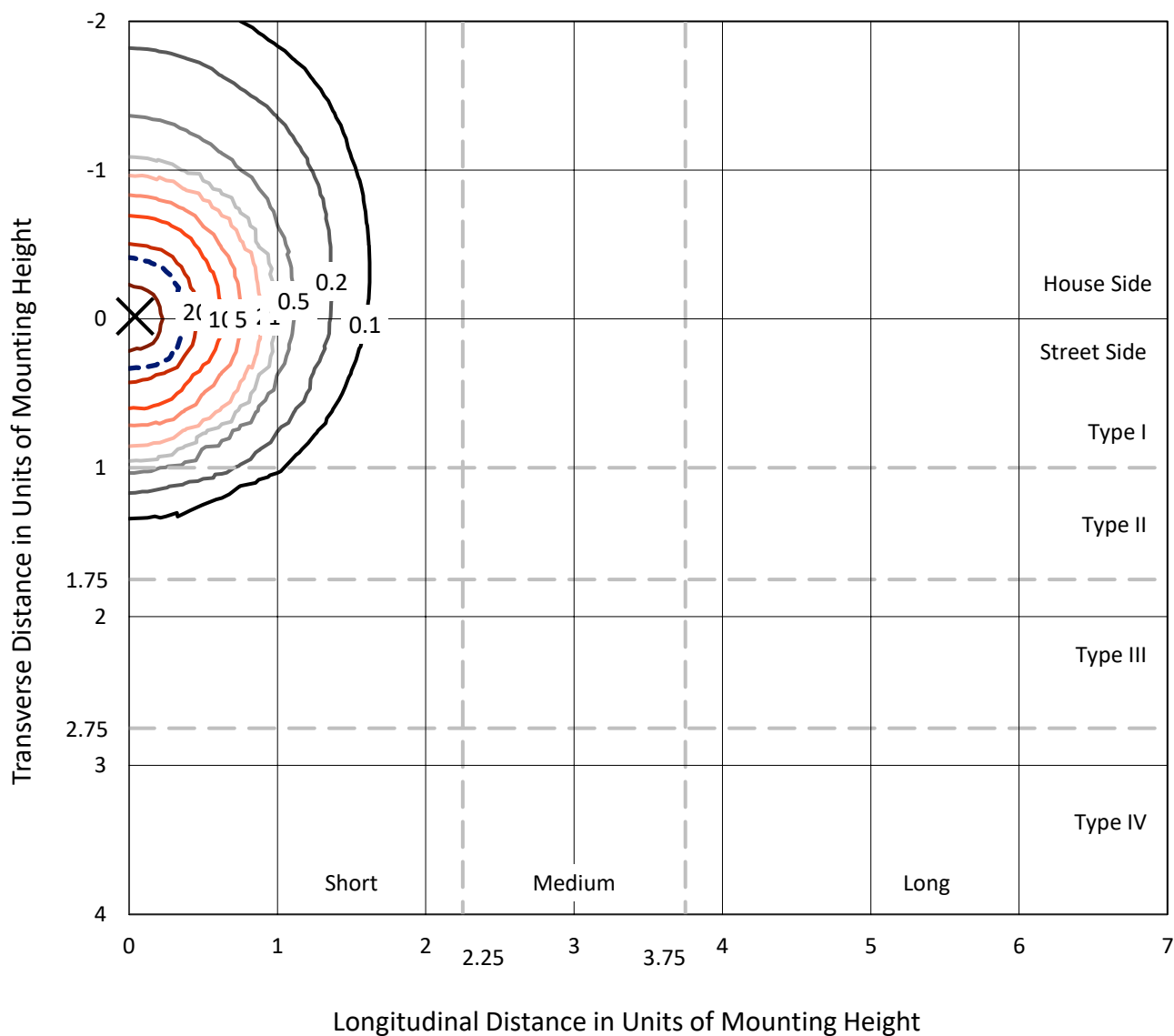
REPORT NUMBER: P636429

CATALOG NUMBER: IFLD-S-SA6B-927-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

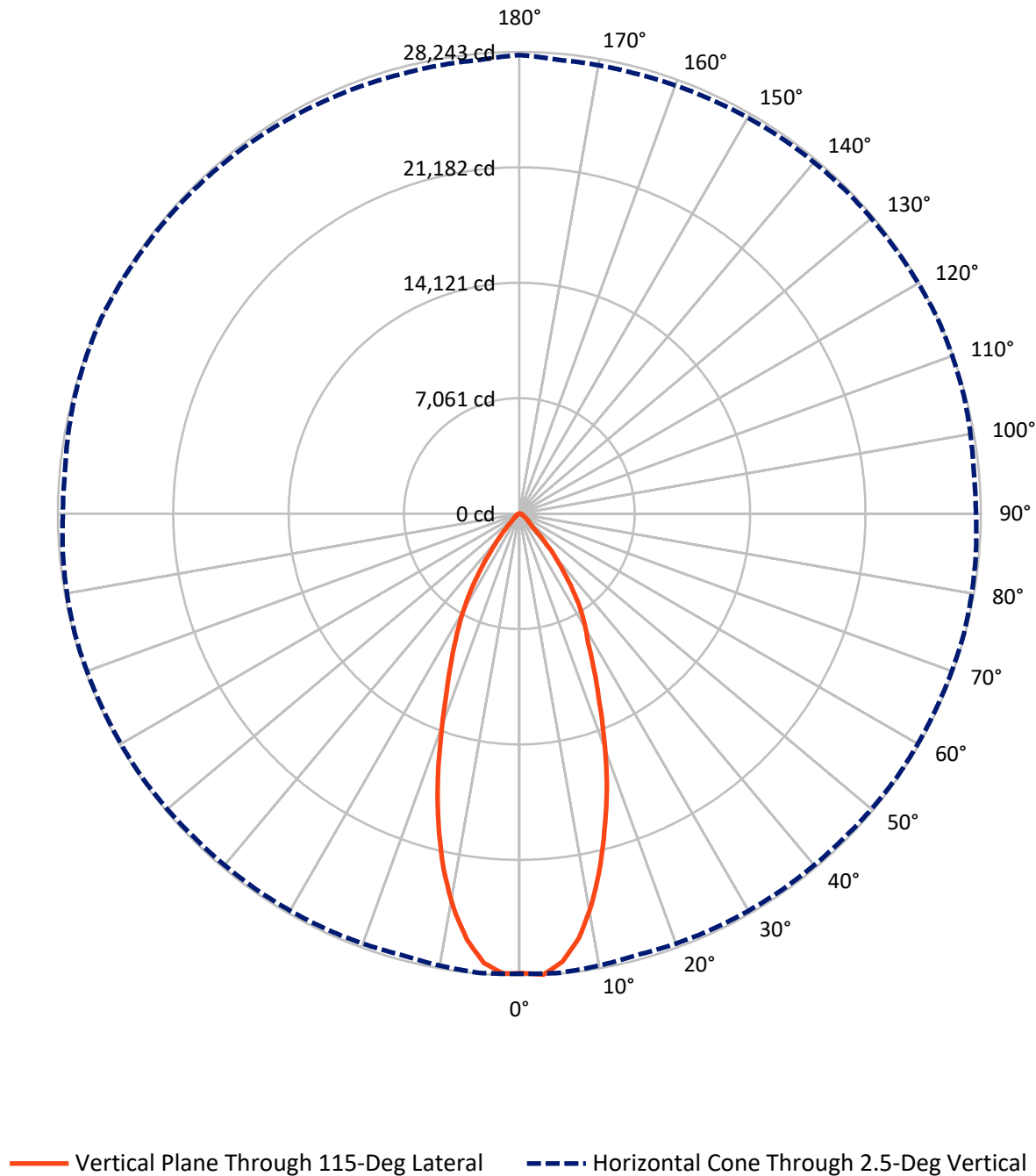


Based on 20 foot mounting height. Maximum calculated value = 70.3 fc

Type I - Short - N/A

REPORT NUMBER: P636429
CATALOG NUMBER: IFLD-S-SA6B-927-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P636429

CATALOG NUMBER: IFLD-S-SA6B-927-U-55-VI

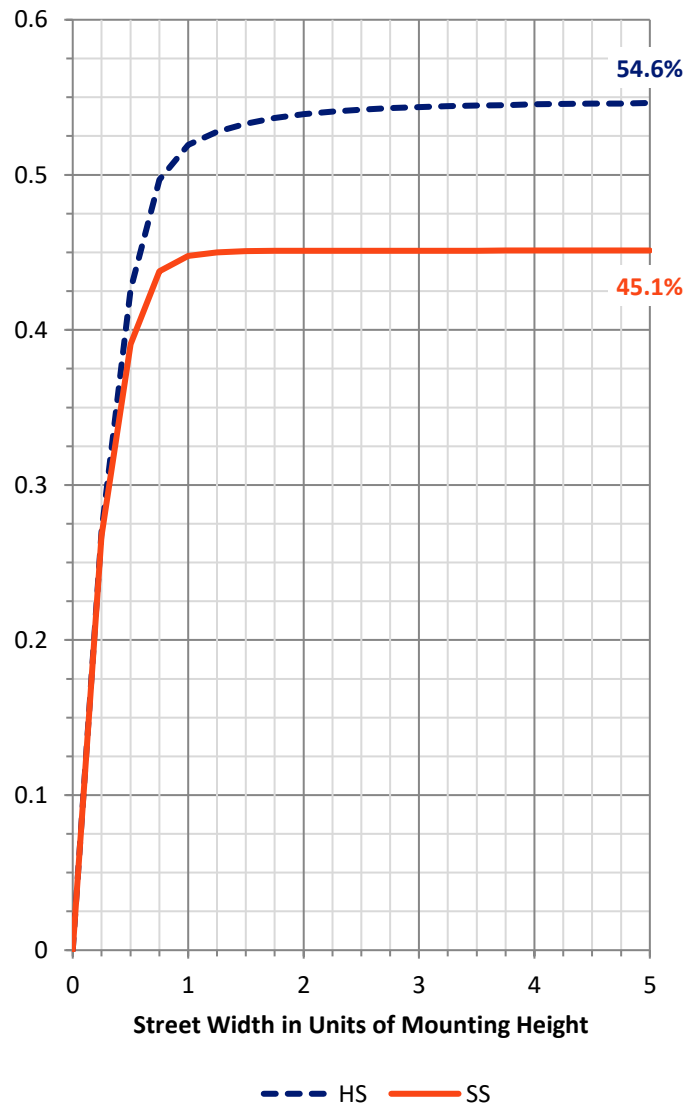
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9650.8	0.0	9650.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7836.2	0.0	7836.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	17487.0	0.0	17487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2521.3	14.4
10°-20°	5328.7	30.5
20°-30°	4809.4	27.5
30°-40°	3182.7	18.2
40°-50°	953.4	5.5
50°-60°	382.4	2.2
60°-70°	198.0	1.1
70°-80°	86.0	0.5
80°-90°	25.0	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°	17487.0	100.0
0°-180°	17487.0	100.0

Coefficient of Utilization



REPORT NUMBER: P636429

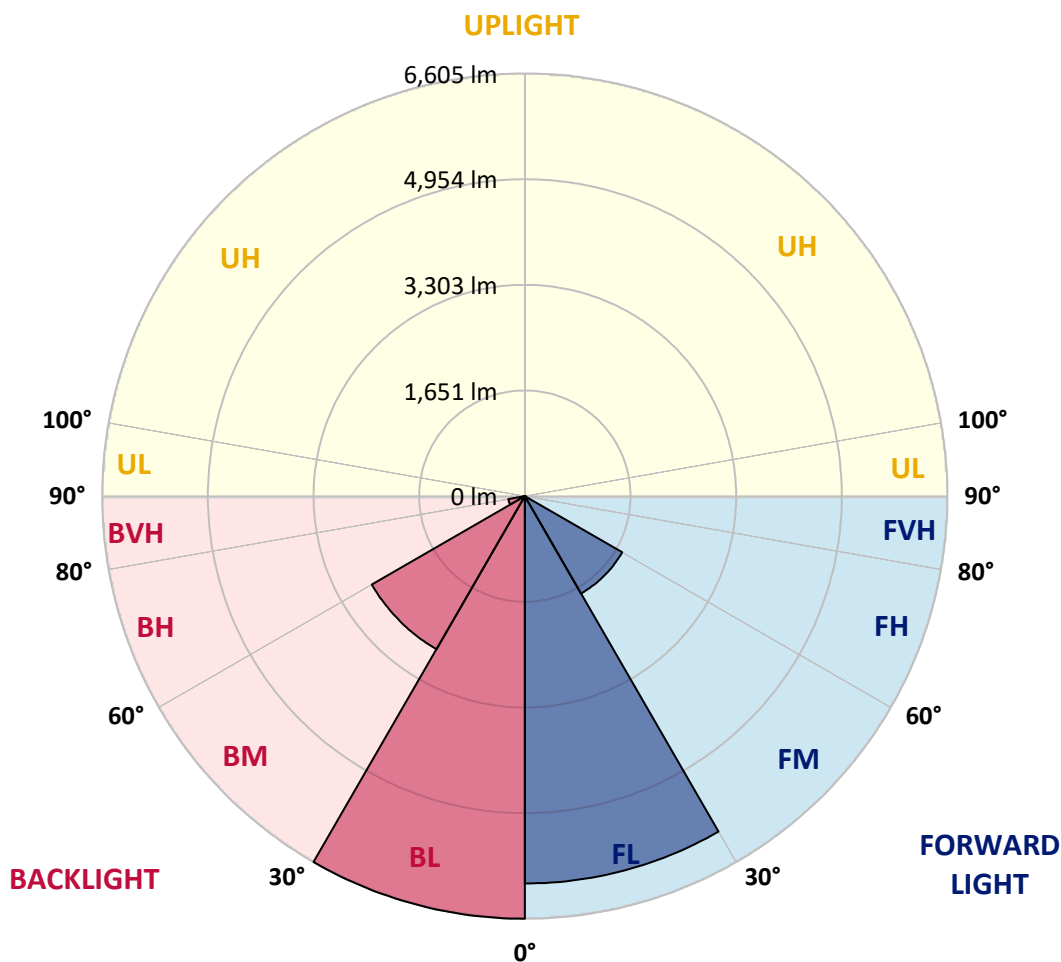
CATALOG NUMBER: IFLD-S-SA6B-927-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6054.1	34.6			
FM	(30°-60°)	1756.7	10.0			
FH	(60°-80°)	21.8	0.1			G0/660
FVH	(80°-90°)	3.6	0.0			G0/10
BL	(0°-30°)	6605.3	37.8	B5		
BM	(30°-60°)	2761.8	15.8	B3/5000		
BH	(60°-80°)	262.3	1.5	B1/500		G1/500
BVH	(80°-90°)	21.4	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: P636429

CATALOG NUMBER: IFLD-S-SA6B-927-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	28110.3	28110.3	28110.3	28110.3	28110.3	28110.3	28110.3	28110.3	28110.3	28110.3
2.5°	28146.0	28196.1	27945.8	28031.6	28067.4	28078.1	28167.5	28153.2	28178.2	28045.9
5°	27774.1	27677.5	27491.6	27495.1	27484.4	27384.3	27588.1	27573.8	27530.9	27373.5
7.5°	26508.1	26647.5	26297.1	26289.9	26282.8	26161.2	26429.4	26264.9	26300.6	26075.3
10°	24655.5	24673.4	24362.2	24333.6	24358.7	24201.3	24512.4	24448.1	24516.0	24280.0
12.5°	22384.5	22484.6	22141.3	22091.2	22191.4	21969.6	22220.0	22252.2	22152.0	22119.9
15°	17556.4	17821.1	18472.0	19466.2	19723.7	19537.7	19738.0	19734.4	19777.3	19534.1
17.5°	13375.6	13400.7	13246.9	13722.5	16476.3	17370.4	17413.4	17073.6	16816.1	16726.7
20°	11676.9	11762.7	11623.2	11662.5	12102.4	14723.9	14824.1	14312.6	13872.7	13837.0
22.5°	10325.0	10378.6	10278.5	10310.7	10332.1	10639.7	12381.4	11930.8	11719.8	11558.8
25°	9180.5	9180.5	9126.9	9137.6	9116.2	8662.0	9556.1	10071.1	9949.5	9892.2
27.5°	8136.2	8150.6	8082.6	8121.9	7860.9	7127.7	7020.4	8540.4	8411.6	8307.9
30°	7145.6	7192.1	7127.7	7149.2	6580.5	5979.7	5672.1	7124.1	7285.1	7256.5
32.5°	5378.9	5589.9	6108.4	6129.9	5357.4	4896.1	4760.2	5718.6	6330.2	6276.5
35°	3333.2	3322.4	3343.9	4373.9	4109.3	3794.5	3844.6	4320.3	5010.5	4985.5
37.5°	2542.8	2539.2	2578.6	2474.8	2693.0	2879.0	2918.3	2918.3	3658.6	3662.2
40°	1927.7	1913.4	1909.8	1745.3	1462.7	2160.1	2095.8	2042.1	2542.8	2596.4
42.5°	1230.3	1273.2	1241.0	1062.2	954.9	1180.2	1316.1	1273.2	1570.0	1609.4
45°	686.7	686.7	658.1	557.9	554.3	597.3	751.0	701.0	804.7	858.3
47.5°	332.6	325.4	357.6	439.9	457.8	443.5	536.5	557.9	608.0	658.1
50°	268.2	268.2	253.9	228.9	379.1	364.8	397.0	425.6	454.2	497.1
52.5°	225.3	225.3	207.4	193.1	218.2	279.0	282.5	336.2	332.6	393.4
55°	114.4	118.0	168.1	168.1	146.6	228.9	232.5	271.8	279.0	329.0
57.5°	10.7	14.3	21.5	103.7	114.4	125.2	175.2	200.3	232.5	253.9
60°	3.6	3.6	7.2	14.3	68.0	85.8	110.9	132.3	160.9	211.0
62.5°	0.0	0.0	3.6	7.2	14.3	53.6	60.8	68.0	96.6	132.3
65°	0.0	0.0	3.6	3.6	7.2	17.9	25.0	42.9	60.8	82.3
67.5°	0.0	0.0	3.6	3.6	7.2	10.7	14.3	21.5	28.6	53.6
70°	0.0	0.0	3.6	3.6	7.2	10.7	10.7	14.3	17.9	25.0
72.5°	0.0	0.0	3.6	3.6	7.2	14.3	10.7	10.7	14.3	17.9
75°	0.0	0.0	3.6	3.6	7.2	10.7	10.7	10.7	10.7	10.7
77.5°	0.0	0.0	3.6	3.6	7.2	10.7	10.7	10.7	7.2	7.2
80°	0.0	0.0	3.6	3.6	7.2	10.7	14.3	14.3	7.2	7.2
82.5°	0.0	0.0	3.6	7.2	7.2	17.9	21.5	17.9	7.2	3.6
85°	0.0	0.0	3.6	3.6	10.7	17.9	17.9	10.7	7.2	3.6
87.5°	0.0	0.0	0.0	3.6	3.6	7.2	10.7	10.7	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P636429

CATALOG NUMBER: IFLD-S-SA6B-927-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
28110.3	0°	28110.3	28110.3	28110.3	28110.3	28110.3	28110.3	28110.3	28110.3	28110.3
27938.6	2.5°	27924.3	28142.5	28242.6	28138.9	28088.8	28017.3	27913.6	27842.1	27856.4
27287.7	5°	27226.9	27455.8	27534.5	27445.1	27370.0	27330.6	27312.7	27348.5	27441.5
25978.8	7.5°	25971.6	26118.2	26204.1	26161.2	26057.4	26175.5	26207.6	26186.2	26322.1
24208.5	10°	24215.6	24376.5	24297.9	24315.7	24194.2	24255.0	24237.1	24315.7	24451.7
22094.8	12.5°	21951.8	22105.6	22044.8	22034.0	21905.3	22019.7	21948.2	22034.0	22212.8
19434.0	15°	19573.5	19670.0	19630.7	19569.9	19455.5	19494.8	19716.5	19702.2	19780.9
16673.0	17.5°	16601.5	17066.4	17320.4	17374.0	17281.0	17359.7	17517.1	17477.7	17656.5
13761.9	20°	13736.8	14205.3	14831.2	15339.1	15349.8	15360.5	15460.7	15485.7	15639.5
11562.4	22.5°	11512.3	11844.9	12517.3	13189.7	13654.6	13751.1	13740.4	13776.2	13819.1
9813.6	25°	9788.5	10031.7	10646.9	11111.8	11927.2	12199.0	12277.7	12199.0	12224.0
8272.1	27.5°	8365.1	8737.1	8940.9	9438.0	10235.6	10865.0	10840.0	10793.5	10800.6
7199.2	30°	7195.7	7596.2	7896.6	8046.8	8647.7	9556.1	9649.1	9516.7	9520.3
6251.5	32.5°	6212.2	6337.3	6780.8	6902.4	7288.6	8114.8	8433.1	8332.9	8315.1
4999.8	35°	5146.4	5214.3	5418.2	5657.8	5886.7	6512.6	7038.3	6945.3	6991.8
3676.5	37.5°	3662.2	3941.2	4137.9	4334.6	4499.1	4892.5	5525.5	5439.7	5486.2
2603.6	40°	2582.1	2707.3	3047.1	3132.9	3376.1	3558.5	4094.9	4066.3	4123.6
1616.5	42.5°	1587.9	1677.3	1849.0	1931.2	2095.8	2199.5	2514.2	2550.0	2625.1
894.1	45°	901.2	940.6	1058.6	1148.0	1269.6	1312.5	1423.4	1473.5	1516.4
693.8	47.5°	686.7	729.6	808.3	886.9	987.1	1022.8	1101.5	1176.6	1216.0
536.5	50°	561.5	600.8	683.1	747.5	847.6	879.8	944.2	1026.4	1076.5
407.7	52.5°	425.6	482.8	582.9	650.9	754.6	794.0	854.8	937.0	983.5
336.2	55°	350.5	393.4	482.8	575.8	672.4	726.0	765.3	865.5	915.6
275.4	57.5°	300.4	332.6	389.8	500.7	582.9	661.6	693.8	786.8	836.9
218.2	60°	228.9	279.0	329.0	414.9	507.8	590.1	625.9	708.1	747.5
157.4	62.5°	189.5	221.7	286.1	332.6	436.3	522.2	557.9	633.0	661.6
103.7	65°	132.3	178.8	239.6	268.2	364.8	447.0	497.1	554.3	582.9
60.8	67.5°	78.7	132.3	189.5	228.9	296.8	379.1	432.7	486.4	511.4
35.8	70°	50.1	103.7	150.2	193.1	232.5	311.1	375.5	422.0	411.3
21.5	72.5°	28.6	64.4	110.9	157.4	193.1	261.1	321.9	357.6	253.9
14.3	75°	17.9	46.5	93.0	128.7	157.4	207.4	264.7	271.8	157.4
7.2	77.5°	14.3	35.8	71.5	103.7	107.3	153.8	186.0	211.0	118.0
7.2	80°	7.2	28.6	60.8	85.8	68.0	107.3	143.1	164.5	93.0
3.6	82.5°	7.2	17.9	46.5	60.8	50.1	82.3	103.7	118.0	78.7
3.6	85°	3.6	14.3	25.0	35.8	35.8	53.6	46.5	57.2	50.1
3.6	87.5°	3.6	7.2	14.3	17.9	14.3	21.5	25.0	25.0	21.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
28110.3
28049.5
27634.6
26458.0
24505.3
22245.0
19798.8
17627.9
15607.3
13740.4
12184.7
10811.4
9523.9
8358.0
7034.7
5525.5
4145.0
2710.9
1512.8
1233.8
1097.9
1015.7
929.9
858.3
754.6
665.2
582.9
507.8
379.1
225.3
146.6
118.0
96.6
85.8
50.1
17.9
0.0

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