

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: P637732

Luminaire Tested: **IFLD-S-SA3E-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637732
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18625.3 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 232.1
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



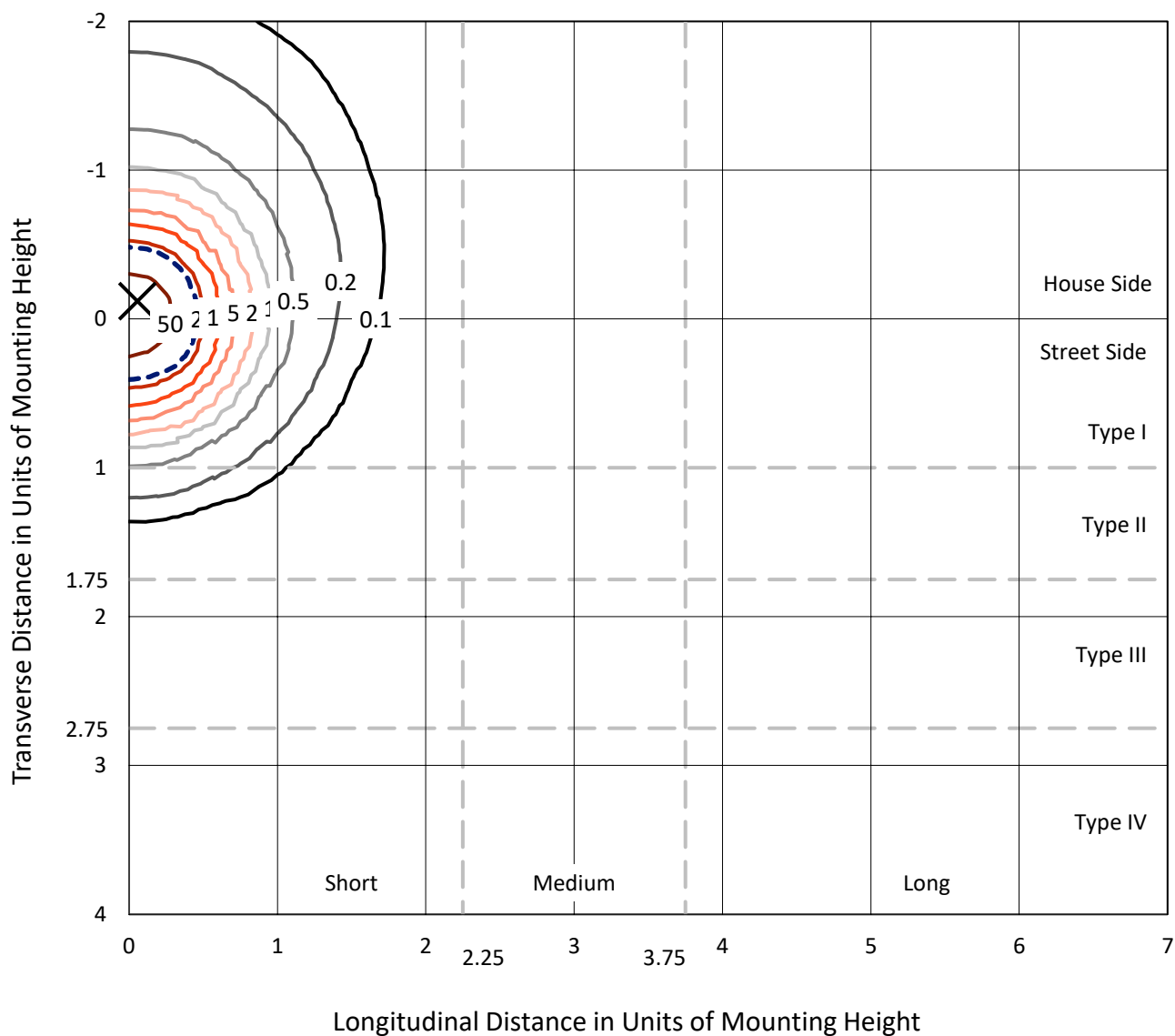
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



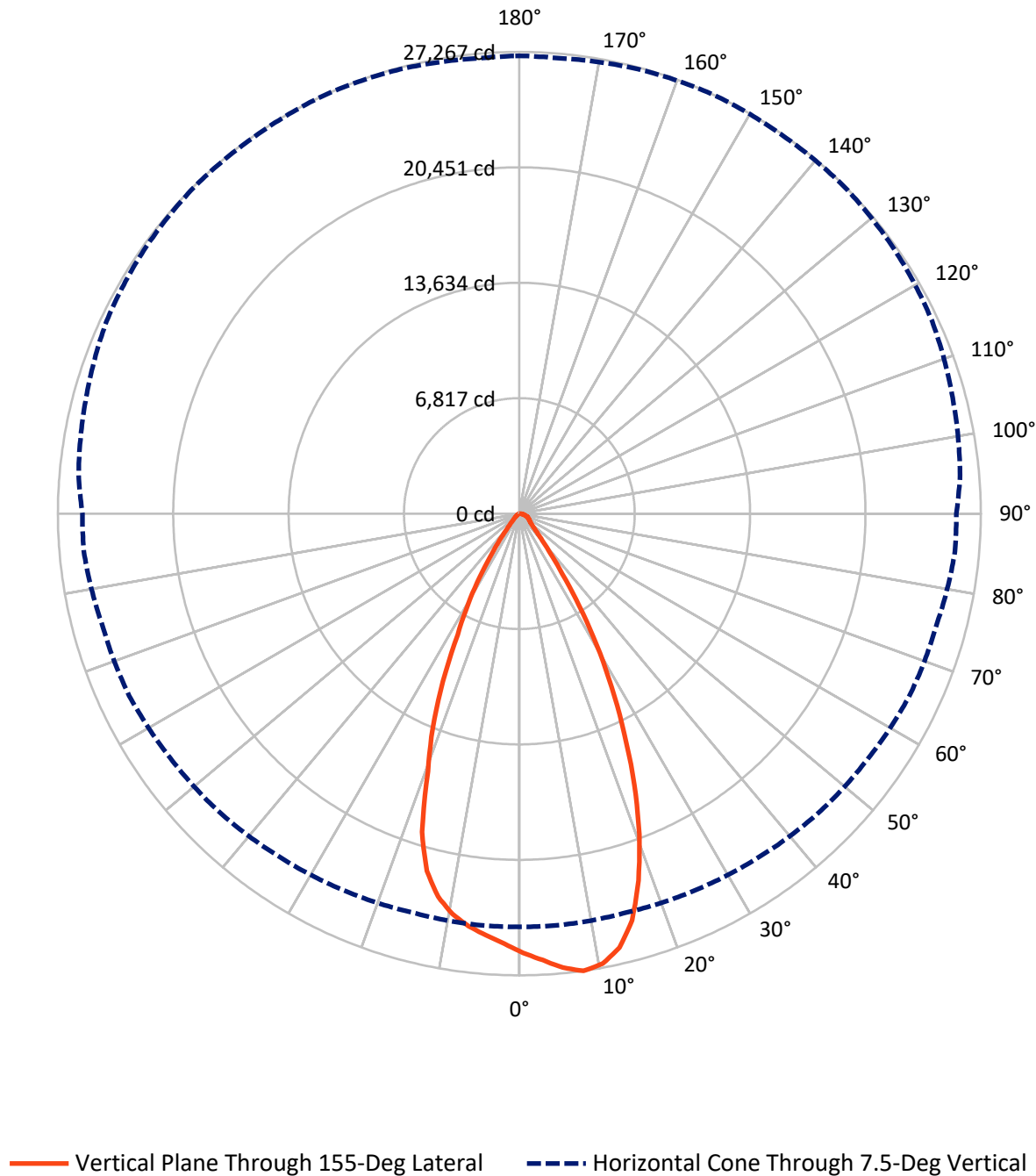
Based on 20 foot mounting height. Maximum calculated value = 65.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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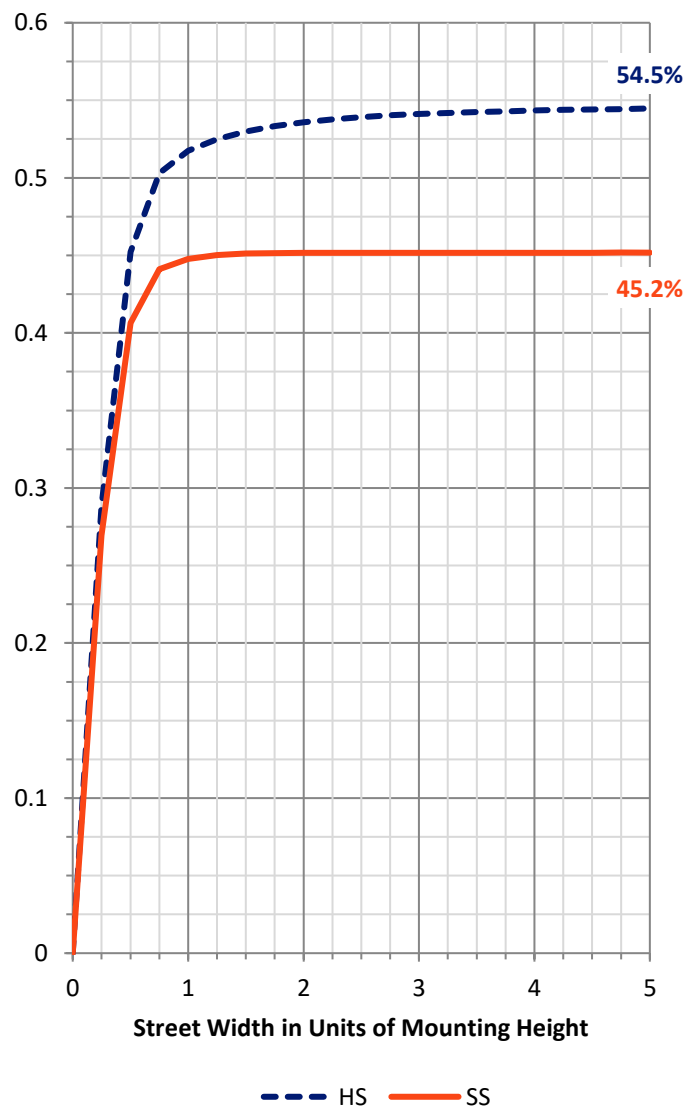
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10281.9	0.0	10281.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8343.5	0.0	8343.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	18625.3	0.0	18625.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2474.2	13.3
10°-20°	6415.5	34.4
20°-30°	5878.4	31.6
30°-40°	2374.9	12.8
40°-50°	696.7	3.7
50°-60°	389.5	2.1
60°-70°	236.6	1.3
70°-80°	120.2	0.6
80°-90°	39.3	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°	18625.3	100.0
0°-180°	18625.3	100.0

Coefficient of Utilization



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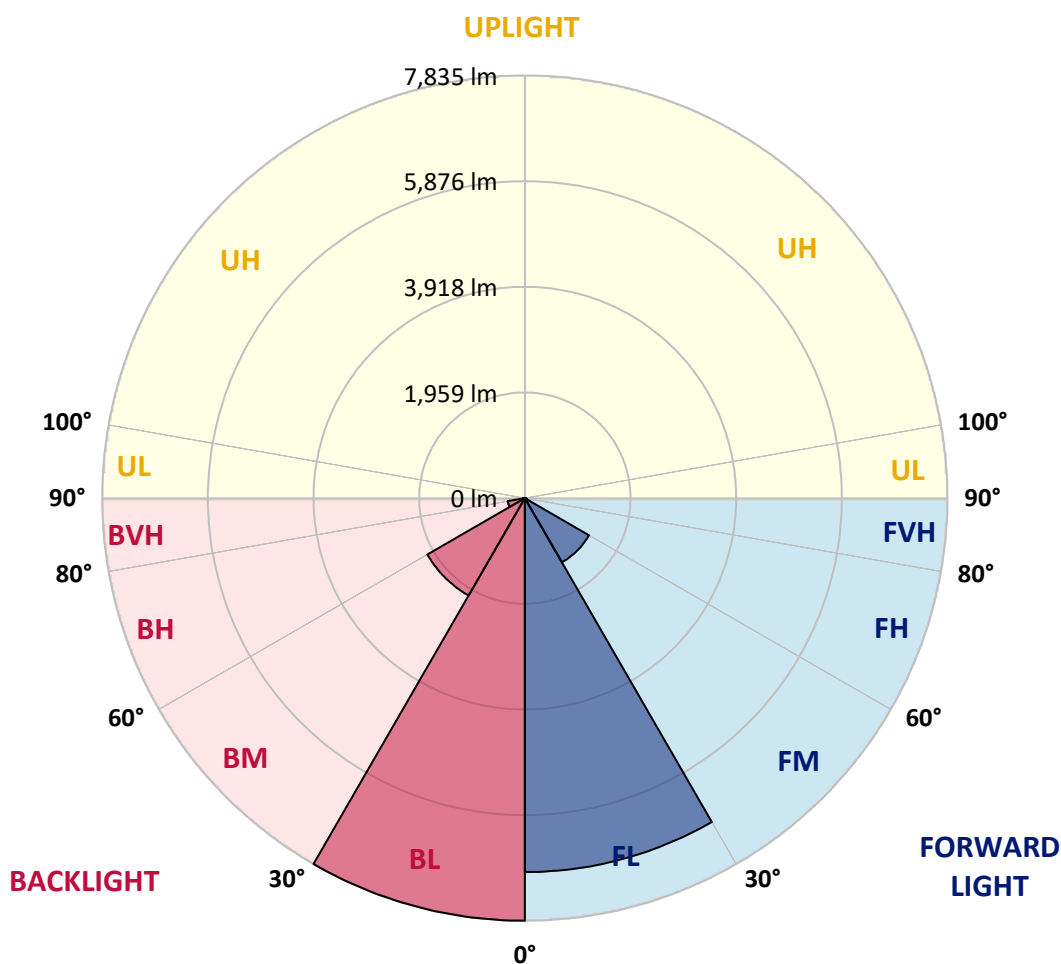
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6932.8	37.2			
FM	(30°-60°)	1374.0	7.4			
FH	(60°-80°)	33.3	0.2			G0/660
FVH	(80°-90°)	3.4	0.0			G0/10
BL	(0°-30°)	7835.3	42.1	B5		
BM	(30°-60°)	2087.1	11.2	B2/2500		
BH	(60°-80°)	323.5	1.7	B1/500		G1/500
BVH	(80°-90°)	35.9	0.2			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	25946.6	25946.6	25946.6	25946.6	25946.6	25946.6	25946.6	25946.6	25946.6	25946.6
2.5°	25383.9	25469.8	25298.0	25411.8	25499.9	25710.3	25727.5	25800.5	25826.3	26017.5
5°	24902.8	24969.4	24829.8	24982.3	25106.8	25293.7	25437.6	25639.5	25751.1	25976.6
7.5°	24402.4	24417.4	24389.5	24550.6	24737.4	24995.1	25173.4	25437.6	25506.3	25828.5
10°	23796.7	23687.2	23740.9	23977.1	24256.3	24651.5	24773.9	25038.1	25160.5	25489.1
12.5°	22830.2	22886.1	22819.5	23120.2	23352.1	23801.0	23929.9	24196.2	24430.3	24720.2
15°	21468.6	21436.4	21571.7	21805.8	22057.1	22413.6	22621.9	22911.9	23090.1	23390.8
17.5°	18408.1	18517.6	19076.0	19662.4	20177.8	20594.5	20843.6	21084.1	21213.0	21539.5
20°	15897.4	15760.0	15835.1	16165.9	17632.8	18270.6	18532.7	18590.6	18644.3	18902.1
22.5°	13090.3	13045.2	13296.5	13668.1	14016.0	15487.2	15843.7	15708.4	15820.1	16062.8
25°	9720.6	9948.2	10171.6	10884.6	11335.7	12057.3	12733.8	12794.0	12834.8	12987.2
27.5°	7912.2	7832.7	7828.4	8028.2	8694.0	9295.3	9870.9	10004.1	9980.4	10126.5
30°	6219.8	6194.0	6103.8	6151.1	6084.5	6619.3	6889.9	7437.5	7407.5	7411.8
32.5°	4486.6	4389.9	4353.4	4424.3	4355.6	4306.2	4542.4	5161.0	5150.2	5193.2
35°	2714.7	2701.8	2731.9	2794.2	2656.7	2652.4	2701.8	3283.9	3354.7	3423.5
37.5°	1499.1	1486.2	1509.8	1739.7	1694.5	1653.7	1666.6	1973.8	2177.8	2229.3
40°	988.0	985.8	1003.0	1043.8	1121.1	1106.1	1112.5	1250.0	1443.3	1488.4
42.5°	661.5	663.6	674.4	721.6	732.4	809.7	796.8	829.0	1009.4	1048.1
45°	528.3	526.2	532.6	511.2	524.0	603.5	612.1	614.2	768.9	792.5
47.5°	416.7	416.7	423.1	395.2	388.7	438.1	483.2	489.7	614.2	646.5
50°	292.1	292.1	324.3	311.4	326.5	341.5	390.9	397.3	502.6	536.9
52.5°	214.8	219.1	223.4	225.5	274.9	272.8	315.7	345.8	380.1	440.3
55°	163.2	167.5	156.8	167.5	204.0	227.7	236.2	279.2	302.8	369.4
57.5°	107.4	118.1	109.5	128.9	137.5	176.1	189.0	229.8	244.8	302.8
60°	15.0	17.2	27.9	90.2	96.6	116.0	146.0	182.6	197.6	247.0
62.5°	2.1	2.1	6.4	15.0	64.4	77.3	109.5	126.7	146.0	184.7
65°	0.0	0.0	2.1	4.3	12.9	45.1	55.8	68.7	100.9	133.2
67.5°	0.0	0.0	2.1	4.3	6.4	15.0	23.6	45.1	58.0	92.4
70°	0.0	0.0	2.1	4.3	6.4	8.6	12.9	17.2	34.4	53.7
72.5°	0.0	0.0	2.1	4.3	6.4	8.6	10.7	12.9	15.0	34.4
75°	0.0	0.0	2.1	4.3	6.4	10.7	12.9	12.9	12.9	15.0
77.5°	0.0	0.0	2.1	4.3	8.6	12.9	15.0	12.9	10.7	10.7
80°	0.0	0.0	2.1	6.4	10.7	15.0	17.2	12.9	8.6	6.4
82.5°	0.0	0.0	2.1	6.4	10.7	15.0	17.2	15.0	8.6	6.4
85°	0.0	0.0	2.1	6.4	8.6	10.7	17.2	15.0	8.6	4.3
87.5°	0.0	0.0	0.0	2.1	2.1	4.3	8.6	6.4	4.3	2.1
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°
25946.6	0°	25946.6	25946.6	25946.6	25946.6	25946.6	25946.6	25946.6	25946.6	25946.6
26013.2	2.5°	26206.4	26303.1	26472.8	26520.0	26666.1	26498.5	26406.2	26414.8	26215.0
25948.7	5°	26206.4	26427.7	26724.0	26865.8	26973.2	26964.6	26941.0	26880.8	26734.8
25819.9	7.5°	26137.7	26498.5	26906.6	27095.6	27224.5	27213.7	27267.4	27170.8	26992.5
25590.1	10°	25916.5	26230.1	26732.6	26887.3	27095.6	27099.9	27033.3	27052.7	26734.8
24750.3	12.5°	25220.6	25465.5	25905.8	26081.9	26335.3	26376.1	26303.1	26275.2	25974.5
23373.6	15°	23874.0	24015.8	24458.2	24634.3	24885.6	24851.2	24924.3	24894.2	24630.0
21513.7	17.5°	21904.6	21949.7	22413.6	22561.8	22798.0	22890.4	22780.8	22920.4	22692.8
18947.2	20°	19080.3	19323.0	19844.9	20072.6	20210.0	20375.4	20231.5	20388.3	20122.0
15833.0	22.5°	16215.3	16359.2	16831.7	17160.3	17415.8	17448.1	17394.4	17503.9	17145.2
13088.2	25°	13086.0	13324.4	13698.1	14127.7	14379.0	14533.6	14394.0	14464.9	14406.9
10150.1	27.5°	10321.9	10534.6	10815.9	11135.9	11513.9	11715.8	11604.1	11724.4	11440.9
7568.6	30°	7575.0	7682.4	8000.2	8339.6	8754.1	8998.9	9009.7	9132.1	8964.6
5302.7	32.5°	5341.4	5435.9	5631.3	5856.8	6252.0	6524.8	6481.8	6499.0	6395.9
3455.7	35°	3472.9	3599.6	3739.2	3846.6	4085.0	4385.6	4362.0	4340.5	4269.7
2272.3	37.5°	2321.7	2371.1	2448.4	2545.0	2699.7	2888.7	2951.0	2873.6	2843.6
1533.5	40°	1570.0	1655.9	1707.4	1780.5	1853.5	2012.4	2055.4	2040.3	2010.3
1073.9	42.5°	1114.7	1181.2	1245.7	1316.6	1355.2	1454.0	1537.8	1514.1	1501.3
816.1	45°	846.2	906.3	981.5	1035.2	1073.9	1131.8	1211.3	1219.9	1200.6
655.1	47.5°	678.7	732.4	792.5	859.1	904.2	940.7	1009.4	1035.2	1022.3
552.0	50°	575.6	616.4	674.4	741.0	790.4	822.6	882.7	910.6	902.0
461.8	52.5°	489.7	539.1	592.8	648.6	708.7	741.0	796.8	837.6	831.2
382.3	55°	405.9	470.4	526.2	582.0	650.8	683.0	732.4	786.1	775.3
324.3	57.5°	354.4	408.1	466.1	519.7	592.8	635.7	680.8	736.7	734.5
266.3	60°	296.4	350.1	414.5	459.6	536.9	597.1	637.9	695.9	700.2
201.9	62.5°	236.2	302.8	352.2	414.5	485.4	556.3	594.9	652.9	674.4
154.6	65°	176.1	249.1	305.0	367.3	433.8	513.3	547.7	605.7	627.1
111.7	67.5°	131.0	186.9	257.7	311.4	386.6	455.3	496.1	549.8	564.8
66.6	70°	98.8	143.9	214.8	262.0	339.3	395.2	436.0	476.8	496.1
45.1	72.5°	58.0	107.4	169.7	225.5	292.1	339.3	369.4	401.6	414.5
21.5	75°	40.8	81.6	133.2	186.9	236.2	274.9	302.8	330.7	343.6
10.7	77.5°	21.5	60.1	105.2	150.3	184.7	216.9	244.8	266.3	274.9
8.6	80°	12.9	43.0	85.9	118.1	141.7	169.7	197.6	212.6	210.5
6.4	82.5°	8.6	34.4	62.3	85.9	103.1	124.6	143.9	154.6	154.6
4.3	85°	6.4	23.6	43.0	66.6	68.7	85.9	90.2	100.9	103.1
4.3	87.5°	4.3	15.0	23.6	38.7	36.5	45.1	47.2	53.7	58.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
25946.6
26054.0
26782.0
27033.3
26642.4
25905.8
24713.8
22636.9
20100.5
17095.8
14370.4
11513.9
8994.6
6453.9
4207.4
2837.1
2014.6
1490.5
1198.4
1015.9
899.9
826.9
775.3
732.4
700.2
672.2
625.0
564.8
491.8
410.2
339.3
272.8
208.3
152.5
100.9
55.8
0.0

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