

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: P637698

Luminaire Tested: **IFLD-S-SA2E-760-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637698
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-760-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17390.8 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 156.2
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



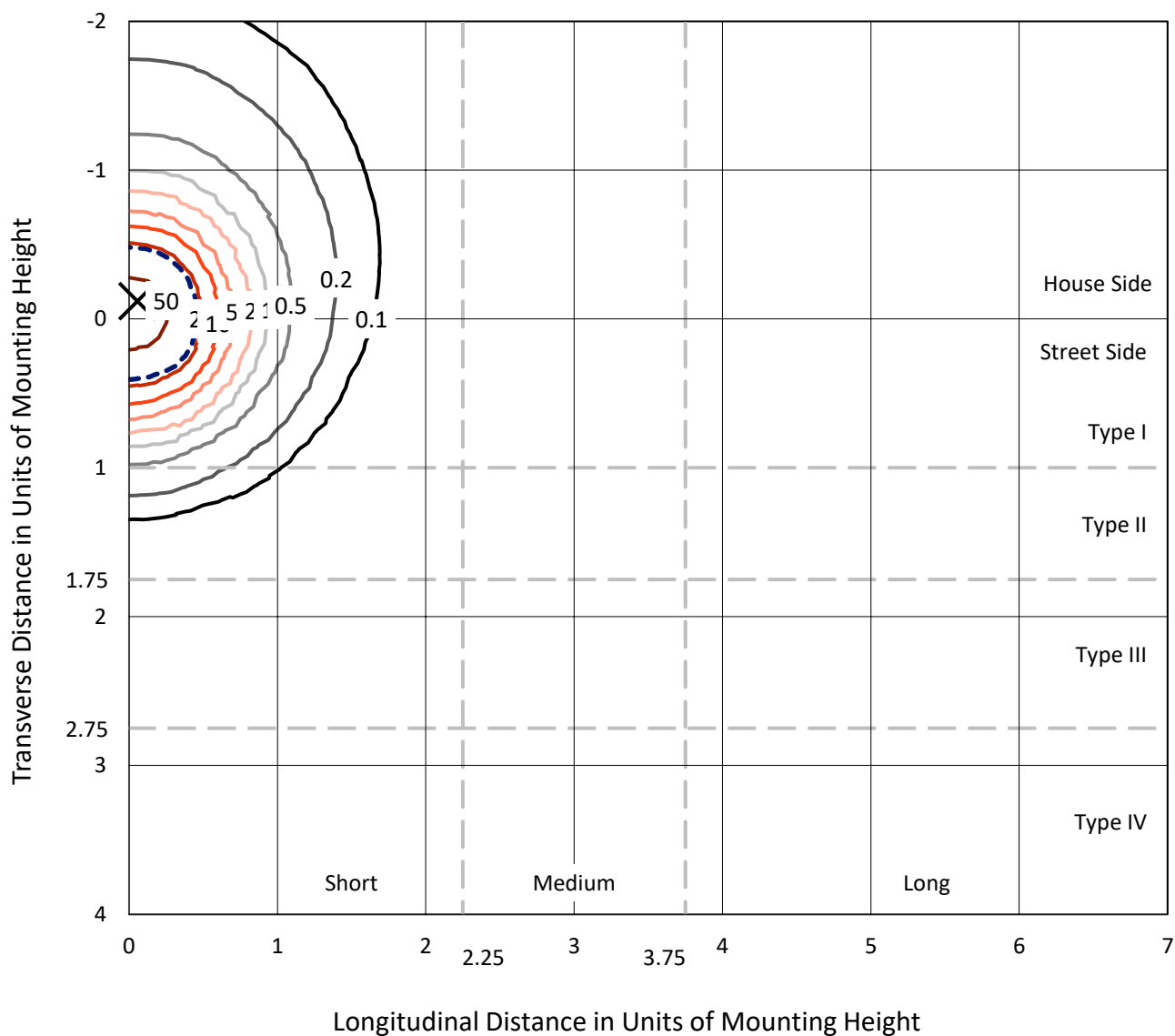
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

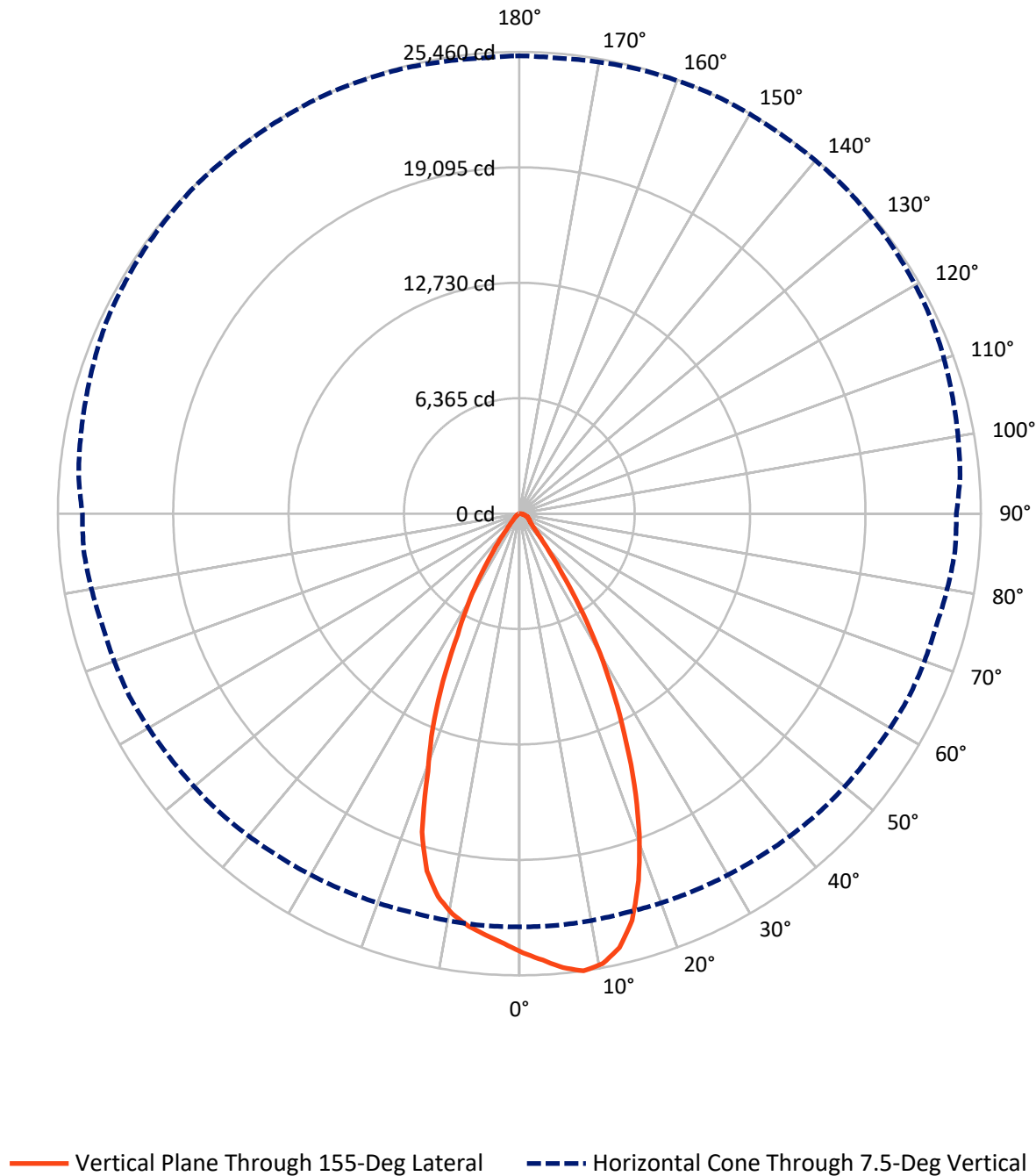


Based on 20 foot mounting height. Maximum calculated value = 61.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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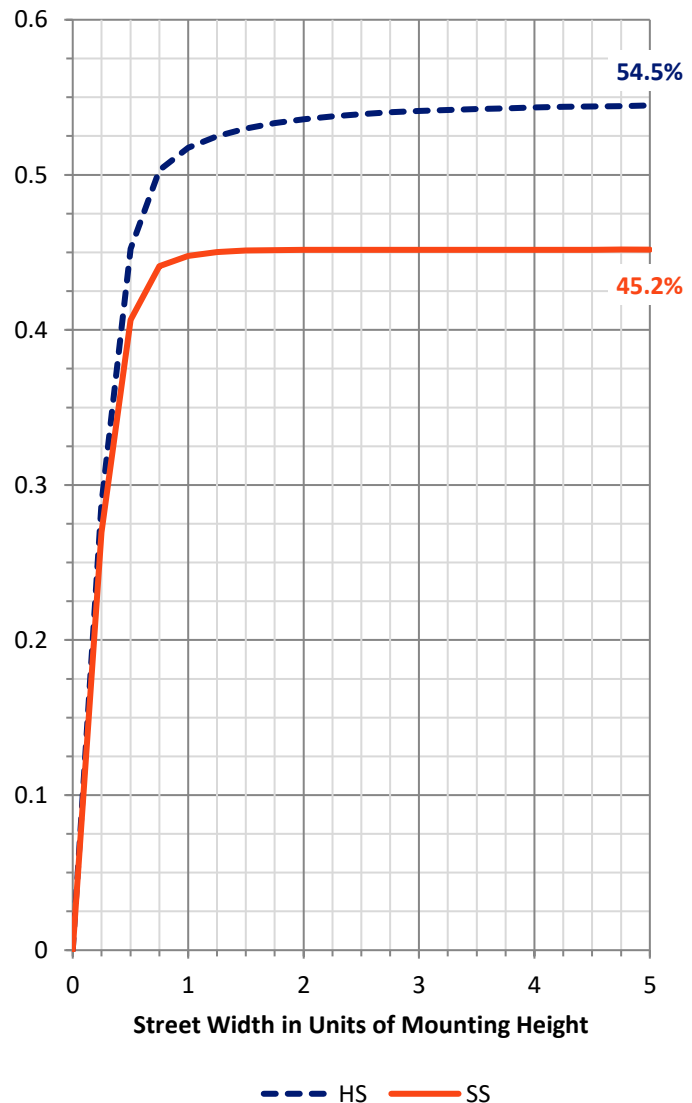
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9600.4	0.0	9600.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7790.4	0.0	7790.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	17390.8	0.0	17390.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2310.2	13.3
10°-20°	5990.3	34.4
20°-30°	5488.8	31.6
30°-40°	2217.5	12.8
40°-50°	650.5	3.7
50°-60°	363.7	2.1
60°-70°	220.9	1.3
70°-80°	112.2	0.6
80°-90°	36.7	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°	17390.8	100.0
0°-180°	17390.8	100.0

Coefficient of Utilization



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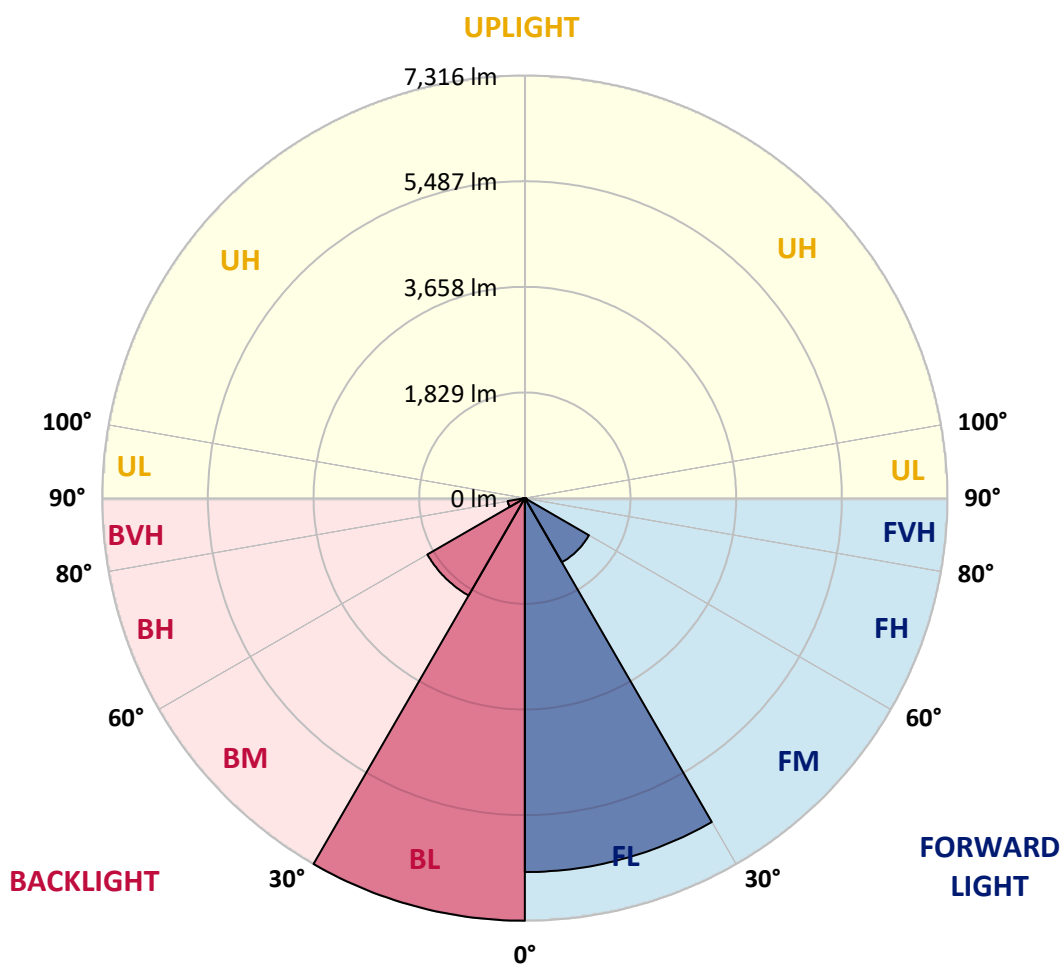
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6473.3	37.2			
FM	(30°-60°)	1282.9	7.4			
FH	(60°-80°)	31.1	0.2			G0/660
FVH	(80°-90°)	3.2	0.0			G0/10
BL	(0°-30°)	7316.0	42.1	B5		
BM	(30°-60°)	1948.8	11.2	B2/2500		
BH	(60°-80°)	302.1	1.7	B1/500		G1/500
BVH	(80°-90°)	33.5	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°	24226.8	24226.8	24226.8	24226.8	24226.8	24226.8	24226.8	24226.8	24226.8	24226.8
2.5°	23701.4	23781.6	23621.1	23727.4	23809.6	24006.2	24022.2	24090.4	24114.5	24292.9
5°	23252.2	23314.3	23184.0	23326.4	23442.7	23617.1	23751.5	23940.0	24044.3	24254.8
7.5°	22784.9	22798.9	22772.9	22923.3	23097.7	23338.4	23504.8	23751.5	23815.7	24116.5
10°	22219.4	22117.1	22167.3	22387.8	22648.5	23017.5	23131.8	23378.5	23492.8	23799.6
12.5°	21317.0	21369.1	21307.0	21587.7	21804.3	22223.4	22343.7	22592.4	22811.0	23081.7
15°	20045.6	20015.5	20141.8	20360.4	20595.1	20927.9	21122.5	21393.2	21559.6	21840.4
17.5°	17187.9	17290.2	17811.6	18359.1	18840.4	19229.4	19462.0	19686.6	19806.9	20111.8
20°	14843.7	14715.3	14785.5	15094.3	16464.0	17059.6	17304.3	17358.4	17408.5	17649.2
22.5°	12222.7	12180.6	12415.2	12762.1	13087.0	14460.7	14793.5	14667.2	14771.5	14998.1
25°	9076.3	9288.8	9497.4	10163.2	10584.3	11258.1	11889.8	11945.9	11984.0	12126.4
27.5°	7387.7	7313.5	7309.5	7496.0	8117.7	8679.2	9216.6	9341.0	9318.9	9455.3
30°	5807.5	5783.5	5699.2	5743.4	5681.2	6180.5	6433.2	6944.6	6916.5	6920.5
32.5°	4189.2	4099.0	4064.9	4131.0	4066.9	4020.7	4241.3	4818.9	4808.9	4849.0
35°	2534.8	2522.7	2550.8	2609.0	2480.6	2476.6	2522.7	3066.2	3132.4	3196.5
37.5°	1399.7	1387.7	1409.8	1624.3	1582.2	1544.1	1556.2	1842.9	2033.4	2081.6
40°	922.5	920.5	936.5	974.6	1046.8	1032.8	1038.8	1167.1	1347.6	1389.7
42.5°	617.7	619.7	629.7	673.8	683.8	756.0	744.0	774.1	942.5	978.6
45°	493.3	491.3	497.3	477.3	489.3	563.5	571.5	573.5	717.9	740.0
47.5°	389.0	389.0	395.1	369.0	363.0	409.1	451.2	457.2	573.5	603.6
50°	272.7	272.7	302.8	290.8	304.8	318.9	365.0	371.0	469.3	501.3
52.5°	200.5	204.5	208.6	210.6	256.7	254.7	294.8	322.9	354.9	411.1
55°	152.4	156.4	146.4	156.4	190.5	212.6	220.6	260.7	282.8	344.9
57.5°	100.3	110.3	102.3	120.3	128.3	164.4	176.5	214.6	228.6	282.8
60°	14.0	16.0	26.1	84.2	90.2	108.3	136.4	170.5	184.5	230.6
62.5°	2.0	2.0	6.0	14.0	60.2	72.2	102.3	118.3	136.4	172.5
65°	0.0	0.0	2.0	4.0	12.0	42.1	52.1	64.2	94.3	124.3
67.5°	0.0	0.0	2.0	4.0	6.0	14.0	22.1	42.1	54.1	86.2
70°	0.0	0.0	2.0	4.0	6.0	8.0	12.0	16.0	32.1	50.1
72.5°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	32.1
75°	0.0	0.0	2.0	4.0	6.0	10.0	12.0	12.0	12.0	14.0
77.5°	0.0	0.0	2.0	4.0	8.0	12.0	14.0	12.0	10.0	10.0
80°	0.0	0.0	2.0	6.0	10.0	14.0	16.0	12.0	8.0	6.0
82.5°	0.0	0.0	2.0	6.0	10.0	14.0	16.0	14.0	8.0	6.0
85°	0.0	0.0	2.0	6.0	8.0	10.0	16.0	14.0	8.0	4.0
87.5°	0.0	0.0	0.0	2.0	2.0	4.0	8.0	6.0	4.0	2.0
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°
24226.8	0°	24226.8	24226.8	24226.8	24226.8	24226.8	24226.8	24226.8	24226.8	24226.8
24288.9	2.5°	24469.4	24559.7	24718.1	24762.2	24898.6	24742.1	24655.9	24663.9	24477.4
24228.8	5°	24469.4	24676.0	24952.7	25085.1	25185.3	25177.3	25155.2	25099.1	24962.7
24108.4	7.5°	24405.2	24742.1	25123.2	25299.6	25419.9	25409.9	25460.1	25369.8	25203.4
23893.9	10°	24198.7	24491.5	24960.7	25105.1	25299.6	25303.6	25241.5	25259.5	24962.7
23109.8	12.5°	23548.9	23777.6	24188.7	24353.1	24589.7	24627.8	24559.7	24533.6	24252.8
21824.3	15°	22291.6	22423.9	22837.0	23001.5	23236.1	23204.0	23272.2	23244.1	22997.5
20087.7	17.5°	20452.7	20494.8	20927.9	21066.3	21286.9	21373.1	21270.9	21401.2	21188.6
17691.3	20°	17815.6	18042.2	18529.5	18742.1	18870.4	19024.9	18890.5	19036.9	18788.2
14783.5	22.5°	15140.5	15274.8	15716.0	16022.8	16261.5	16291.5	16241.4	16343.7	16008.8
12220.7	25°	12218.7	12441.3	12790.2	13191.3	13425.9	13570.3	13439.9	13506.1	13452.0
9477.3	27.5°	9637.8	9836.3	10099.0	10397.8	10750.7	10939.2	10835.0	10947.3	10682.6
7066.9	30°	7072.9	7173.2	7470.0	7786.8	8173.8	8402.5	8412.5	8526.8	8370.4
4951.2	32.5°	4987.3	5075.6	5258.1	5468.6	5837.6	6092.3	6052.2	6068.2	5972.0
3226.6	35°	3242.7	3361.0	3491.3	3591.6	3814.2	4094.9	4072.9	4052.8	3986.7
2121.7	37.5°	2167.8	2213.9	2286.1	2376.4	2520.7	2697.2	2755.4	2683.2	2655.1
1431.8	40°	1465.9	1546.1	1594.3	1662.4	1730.6	1879.0	1919.1	1905.1	1877.0
1002.7	42.5°	1040.8	1102.9	1163.1	1229.3	1265.4	1357.6	1435.8	1413.8	1401.7
762.0	45°	790.1	846.3	916.4	966.6	1002.7	1056.8	1131.0	1139.0	1121.0
611.6	47.5°	633.7	683.8	740.0	802.1	844.3	878.3	942.5	966.6	954.6
515.4	50°	537.4	575.5	629.7	691.8	738.0	768.1	824.2	850.3	842.3
431.2	52.5°	457.2	503.3	553.5	605.6	661.8	691.8	744.0	782.1	776.1
357.0	55°	379.0	439.2	491.3	543.5	607.6	637.7	683.8	734.0	723.9
302.8	57.5°	330.9	381.0	435.2	485.3	553.5	593.6	635.7	687.8	685.8
248.7	60°	276.7	326.9	387.0	429.1	501.3	557.5	595.6	649.7	653.7
188.5	62.5°	220.6	282.8	328.9	387.0	453.2	519.4	555.5	609.6	629.7
144.4	65°	164.4	232.6	284.8	342.9	405.1	479.3	511.4	565.5	585.6
104.3	67.5°	122.3	174.5	240.6	290.8	361.0	425.1	463.2	513.4	527.4
62.2	70°	92.2	134.4	200.5	244.7	316.8	369.0	407.1	445.2	463.2
42.1	72.5°	54.1	100.3	158.4	210.6	272.7	316.8	344.9	375.0	387.0
20.1	75°	38.1	76.2	124.3	174.5	220.6	256.7	282.8	308.8	320.9
10.0	77.5°	20.1	56.2	98.3	140.4	172.5	202.5	228.6	248.7	256.7
8.0	80°	12.0	40.1	80.2	110.3	132.4	158.4	184.5	198.5	196.5
6.0	82.5°	8.0	32.1	58.2	80.2	96.3	116.3	134.4	144.4	144.4
4.0	85°	6.0	22.1	40.1	62.2	64.2	80.2	84.2	94.3	96.3
4.0	87.5°	4.0	14.0	22.1	36.1	34.1	42.1	44.1	50.1	54.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
24226.8
24327.0
25006.8
25241.5
24876.5
24188.7
23075.7
21136.5
18768.2
15962.7
13417.9
10750.7
8398.4
6026.1
3928.5
2649.1
1881.0
1391.7
1119.0
948.5
840.2
772.1
723.9
683.8
653.7
627.7
583.6
527.4
459.2
383.0
316.8
254.7
194.5
142.4
94.3
52.1
0.0

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