

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: P638103

Luminaire Tested: **IFLD-S-SA2D-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638103
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10954.2 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

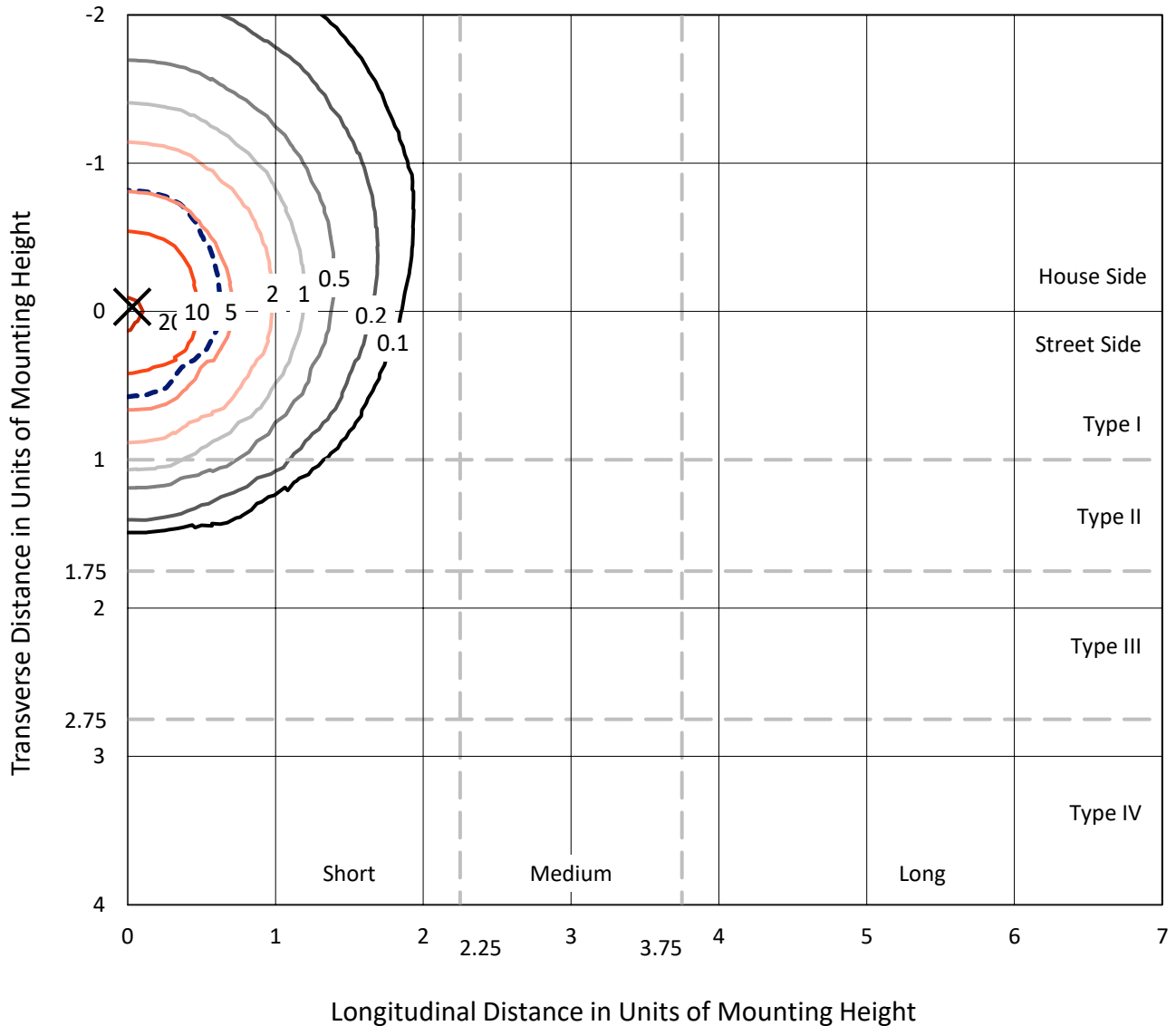
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

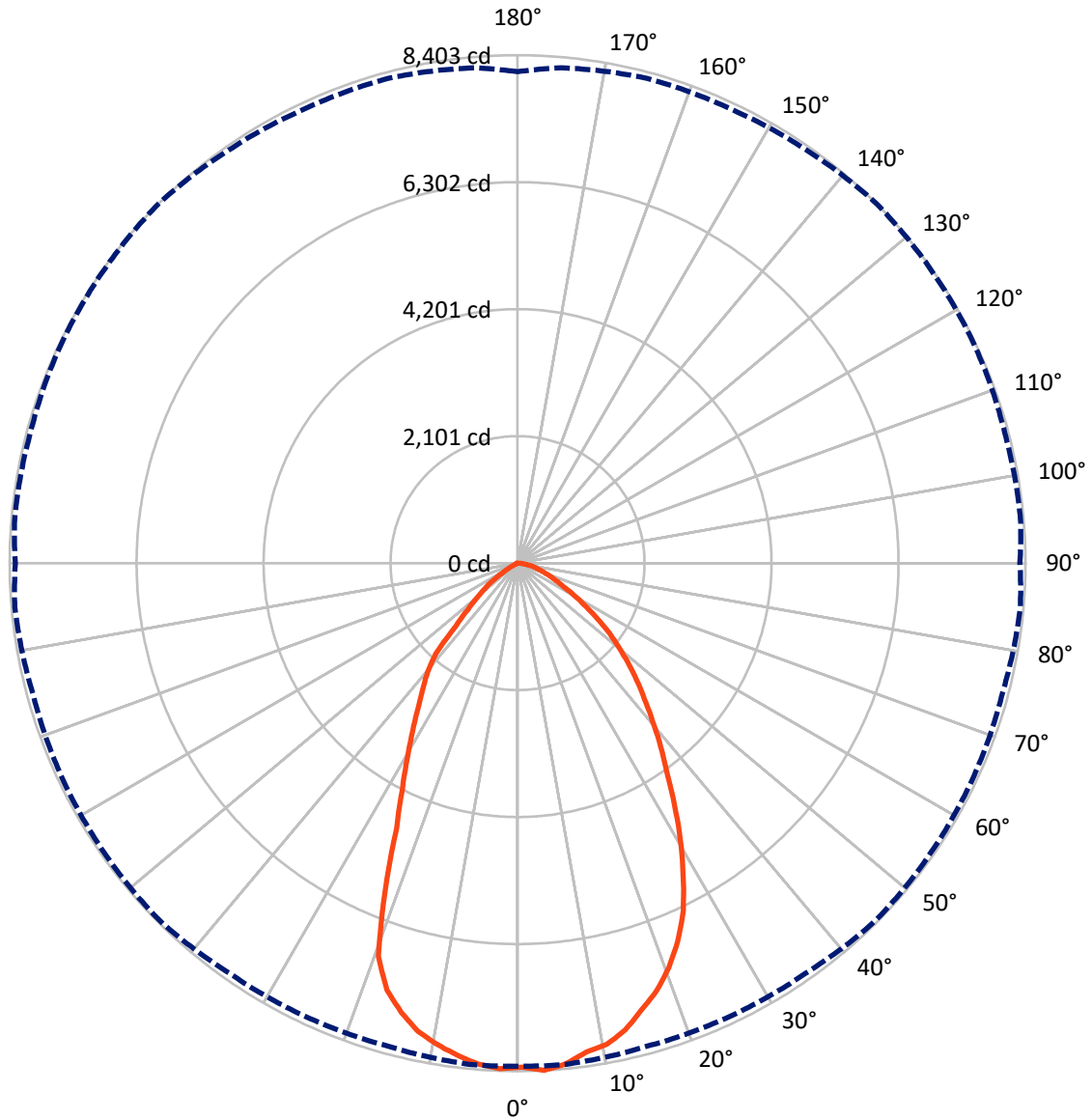
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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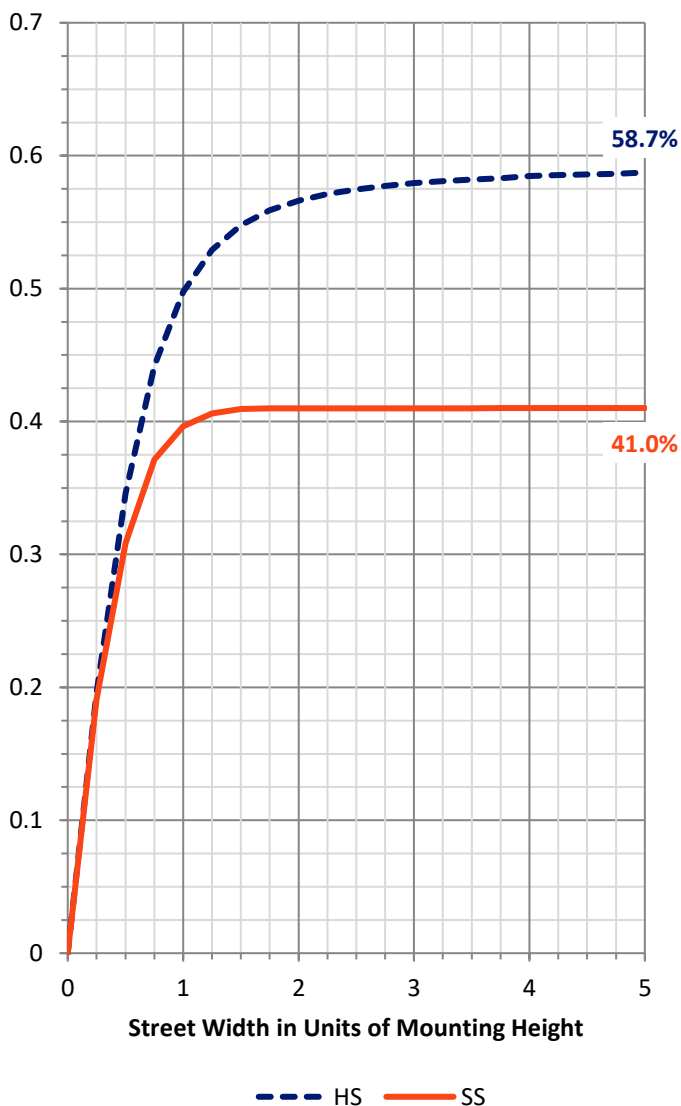
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6487.6	0.0	6487.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4466.6	0.0	4466.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	10954.2	0.0	10954.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.8	7.1
10°-20°	2096.4	19.1
20°-30°	2556.7	23.3
30°-40°	2334.3	21.3
40°-50°	1686.9	15.4
50°-60°	921.1	8.4
60°-70°	380.8	3.5
70°-80°	154.2	1.4
80°-90°	42.0	0.4
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°	10954.2	100.0
0°-180°	10954.2	100.0



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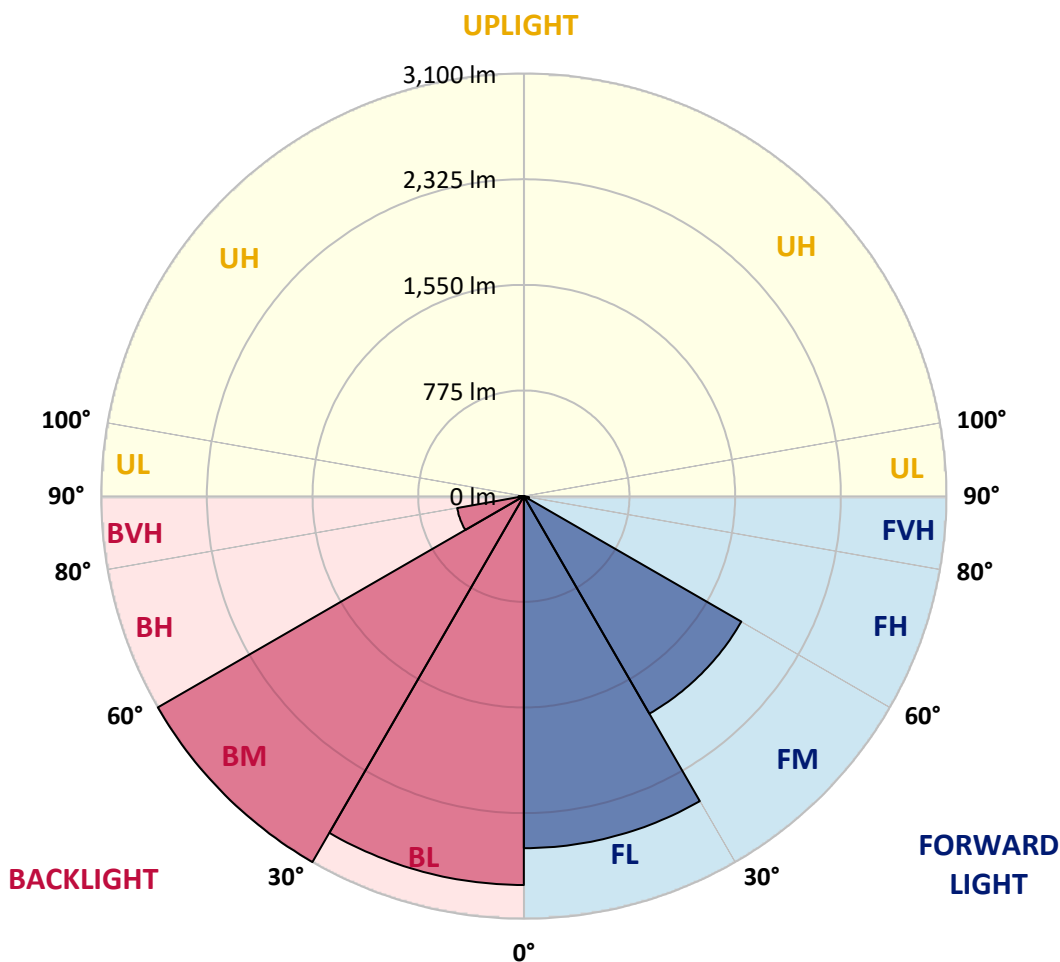
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2582.3	23.6			
FM (30°-60°)	1842.3	16.8			
FH (60°-80°)	38.6	0.4			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	2852.6	26.0	B4/5000		
BM (30°-60°)	3100.0	28.3	B3/5000		
BH (60°-80°)	496.5	4.5	B1/500		G1/500
BVH (80°-90°)	38.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8336.1	8336.1	8336.1	8336.1	8336.1	8336.1	8336.1	8336.1	8336.1	8336.1
2.5°	8320.7	8331.5	8272.9	8279.1	8289.9	8368.5	8348.5	8330.0	8303.7	8348.5
5°	8309.9	8316.1	8254.4	8232.8	8242.0	8313.0	8248.2	8248.2	8242.0	8234.3
7.5°	8226.6	8229.7	8181.9	8143.3	8168.0	8200.4	8152.6	8175.7	8141.8	8168.0
10°	8101.7	8081.6	8024.5	8013.7	8041.5	8072.3	8040.0	8061.5	8030.7	8050.8
12.5°	7918.1	7887.2	7841.0	7827.1	7874.9	7916.5	7890.3	7878.0	7837.9	7887.2
15°	7210.0	7186.9	7291.8	7475.4	7640.4	7675.9	7648.1	7660.5	7577.2	7591.1
17.5°	5934.3	5891.1	6003.7	6438.8	7058.9	7385.9	7361.2	7281.0	7157.6	7185.4
20°	5392.9	5380.5	5368.2	5471.5	5905.0	6896.9	6930.8	6727.2	6551.4	6512.8
22.5°	5087.4	5082.8	5070.5	5093.6	5207.8	5844.9	6233.6	6045.4	5928.2	5917.4
25°	4808.2	4800.5	4763.5	4792.8	4792.8	4829.8	5328.1	5442.2	5338.9	5326.5
27.5°	4524.4	4510.5	4504.3	4518.2	4447.3	4197.4	4323.9	4880.7	4826.7	4829.8
30°	4217.4	4212.8	4195.8	4225.1	4006.1	3696.0	3615.8	4371.7	4382.5	4379.4
32.5°	3760.8	3780.9	3858.0	3890.4	3529.4	3273.4	3139.2	3782.4	4003.0	3998.4
35°	2731.9	2731.9	2983.4	3450.8	3092.9	2900.1	2827.6	3207.0	3628.2	3643.6
37.5°	2246.0	2253.7	2303.1	2516.0	2668.7	2600.8	2579.2	2699.5	3146.9	3171.6
40°	2020.8	2020.8	2020.8	1932.9	1928.2	2343.2	2330.8	2292.3	2718.0	2772.0
42.5°	1815.6	1820.3	1823.3	1601.2	1477.8	2025.4	1997.6	1939.0	2333.9	2397.2
45°	1604.3	1612.0	1621.3	1339.0	1285.0	1457.7	1690.7	1625.9	1954.5	2036.2
47.5°	979.5	991.9	1201.7	1135.3	1141.5	1124.5	1379.1	1368.3	1602.7	1718.4
50°	661.8	666.4	686.5	720.4	979.5	883.9	976.5	1132.3	1217.1	1393.0
52.5°	555.3	563.0	513.7	467.4	643.3	691.1	681.8	840.7	874.6	1092.2
55°	390.3	415.0	391.8	387.2	365.6	536.8	516.8	646.3	667.9	829.9
57.5°	40.1	46.3	80.2	288.5	239.1	303.9	368.7	473.6	495.2	612.4
60°	3.1	3.1	7.7	40.1	174.3	182.0	254.5	291.5	333.2	427.3
62.5°	0.0	1.5	3.1	6.2	27.8	97.2	128.0	152.7	200.5	276.1
65°	0.0	0.0	1.5	4.6	6.2	37.0	49.4	80.2	109.5	171.2
67.5°	0.0	0.0	1.5	3.1	4.6	9.3	17.0	29.3	58.6	97.2
70°	0.0	0.0	1.5	3.1	4.6	7.7	12.3	18.5	26.2	52.4
72.5°	0.0	0.0	1.5	1.5	3.1	7.7	9.3	12.3	18.5	26.2
75°	0.0	0.0	1.5	1.5	4.6	9.3	7.7	9.3	12.3	17.0
77.5°	0.0	0.0	1.5	3.1	4.6	9.3	7.7	9.3	9.3	10.8
80°	0.0	0.0	1.5	3.1	6.2	10.8	9.3	9.3	7.7	7.7
82.5°	0.0	0.0	1.5	4.6	6.2	13.9	13.9	12.3	6.2	4.6
85°	0.0	0.0	3.1	6.2	9.3	15.4	15.4	12.3	4.6	3.1
87.5°	0.0	0.0	3.1	4.6	7.7	10.8	15.4	12.3	4.6	1.5
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°
8336.1	0°	8336.1	8336.1	8336.1	8336.1	8336.1	8336.1	8336.1	8336.1	8336.1
8309.9	2.5°	8351.6	8342.3	8373.2	8385.5	8402.5	8337.7	8297.6	8299.1	8225.1
8215.8	5°	8265.2	8266.7	8306.8	8303.7	8320.7	8285.2	8269.8	8243.6	8178.8
8097.0	7.5°	8155.6	8141.8	8180.3	8209.6	8166.4	8191.1	8155.6	8168.0	8129.4
7992.1	10°	8070.8	8038.4	8073.9	8093.9	8095.5	8070.8	8036.9	8004.5	7990.6
7828.6	12.5°	7882.6	7841.0	7901.1	7928.9	7924.3	7876.4	7837.9	7845.6	7800.9
7541.7	15°	7623.5	7625.0	7668.2	7694.4	7669.7	7658.9	7662.0	7643.5	7604.9
7145.3	17.5°	7227.0	7250.1	7364.3	7427.5	7441.4	7419.8	7409.0	7387.4	7348.9
6512.8	20°	6566.8	6705.6	6909.2	7105.1	7143.7	7137.5	7099.0	7089.7	7068.1
5886.5	22.5°	5986.8	6090.1	6326.1	6631.6	6788.9	6804.3	6758.1	6744.2	6721.0
5326.5	25°	5386.7	5497.8	5710.6	6042.3	6367.8	6434.1	6426.4	6384.8	6360.1
4829.8	27.5°	4880.7	4991.8	5184.6	5483.9	5832.5	6045.4	6065.4	5999.1	5997.6
4387.1	30°	4424.1	4576.8	4723.4	4967.1	5305.0	5624.3	5658.2	5611.9	5616.6
3981.4	32.5°	4066.3	4192.7	4317.7	4481.2	4762.0	5133.7	5266.4	5223.2	5206.2
3643.6	35°	3700.7	3787.0	3915.1	4064.7	4256.0	4624.7	4854.5	4822.1	4805.2
3187.0	37.5°	3284.2	3432.3	3524.8	3692.9	3842.6	4135.7	4459.6	4455.0	4419.5
2798.2	40°	2856.9	3012.7	3153.0	3322.7	3438.4	3671.4	4030.8	4029.2	4033.9
2395.6	42.5°	2469.7	2613.1	2782.8	2967.9	3079.0	3248.7	3634.3	3655.9	3682.2
2064.0	45°	2119.5	2249.1	2406.4	2631.7	2765.9	2863.0	3205.5	3304.2	3302.7
1767.8	47.5°	1804.8	1926.7	2059.4	2278.4	2449.6	2537.6	2821.4	2961.8	2952.5
1450.0	50°	1514.8	1622.8	1761.6	1920.5	2150.4	2227.5	2438.8	2623.9	2610.1
1155.4	52.5°	1218.6	1368.3	1485.5	1630.5	1872.7	1948.3	2111.8	2292.3	2281.5
866.9	55°	950.2	1095.2	1237.2	1362.1	1565.7	1678.3	1795.6	1980.7	1977.6
678.7	57.5°	718.8	877.7	1011.9	1130.7	1292.7	1431.5	1525.6	1693.8	1715.4
464.3	60°	532.2	654.1	799.1	931.7	1059.8	1203.2	1266.5	1431.5	1440.8
317.8	62.5°	362.5	496.7	638.6	759.0	854.6	1002.7	1059.8	1195.5	1212.5
203.6	65°	251.4	337.8	499.8	586.2	703.4	829.9	887.0	995.0	1028.9
117.2	67.5°	166.6	240.6	390.3	468.9	584.6	671.0	743.5	831.5	868.5
74.0	70°	91.0	177.4	279.2	370.2	470.5	553.8	624.7	695.7	728.1
33.9	72.5°	61.7	118.8	194.4	293.1	379.5	461.2	524.5	576.9	578.5
20.1	75°	30.9	80.2	148.1	226.8	296.2	376.4	433.5	464.3	427.3
12.3	77.5°	18.5	58.6	120.3	182.0	240.6	303.9	336.3	353.3	293.1
9.3	80°	10.8	41.6	94.1	145.0	166.6	223.7	254.5	259.2	195.9
6.2	82.5°	7.7	30.9	74.0	106.4	101.8	157.3	191.3	185.1	124.9
4.6	85°	4.6	21.6	46.3	66.3	61.7	103.4	111.1	114.2	72.5
3.1	87.5°	3.1	12.3	24.7	35.5	29.3	44.7	44.7	54.0	35.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8336.1
8129.4
8163.4
8064.6
7928.9
7762.3
7566.4
7331.9
7018.8
6714.9
6333.9
5994.5
5593.4
5207.8
4782.0
4448.8
4033.9
3668.3
3305.8
2955.6
2622.4
2304.6
1985.3
1706.1
1454.7
1215.6
1021.2
863.8
715.8
564.6
399.5
282.3
183.6
115.7
66.3
30.9
0.0

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