

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: P638280

Luminaire Tested: **IFLD-S-SA3B-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638280
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10400 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

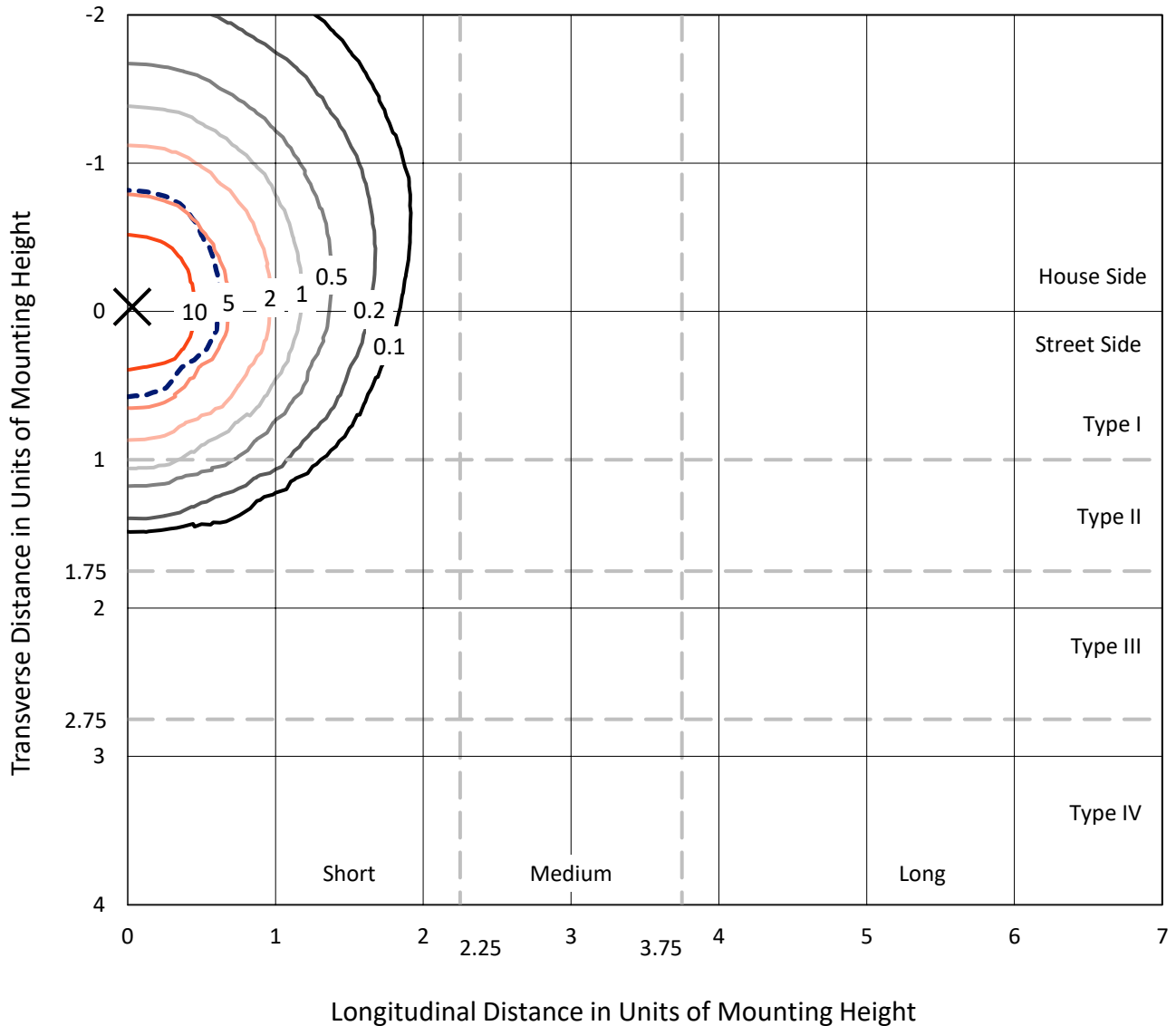
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

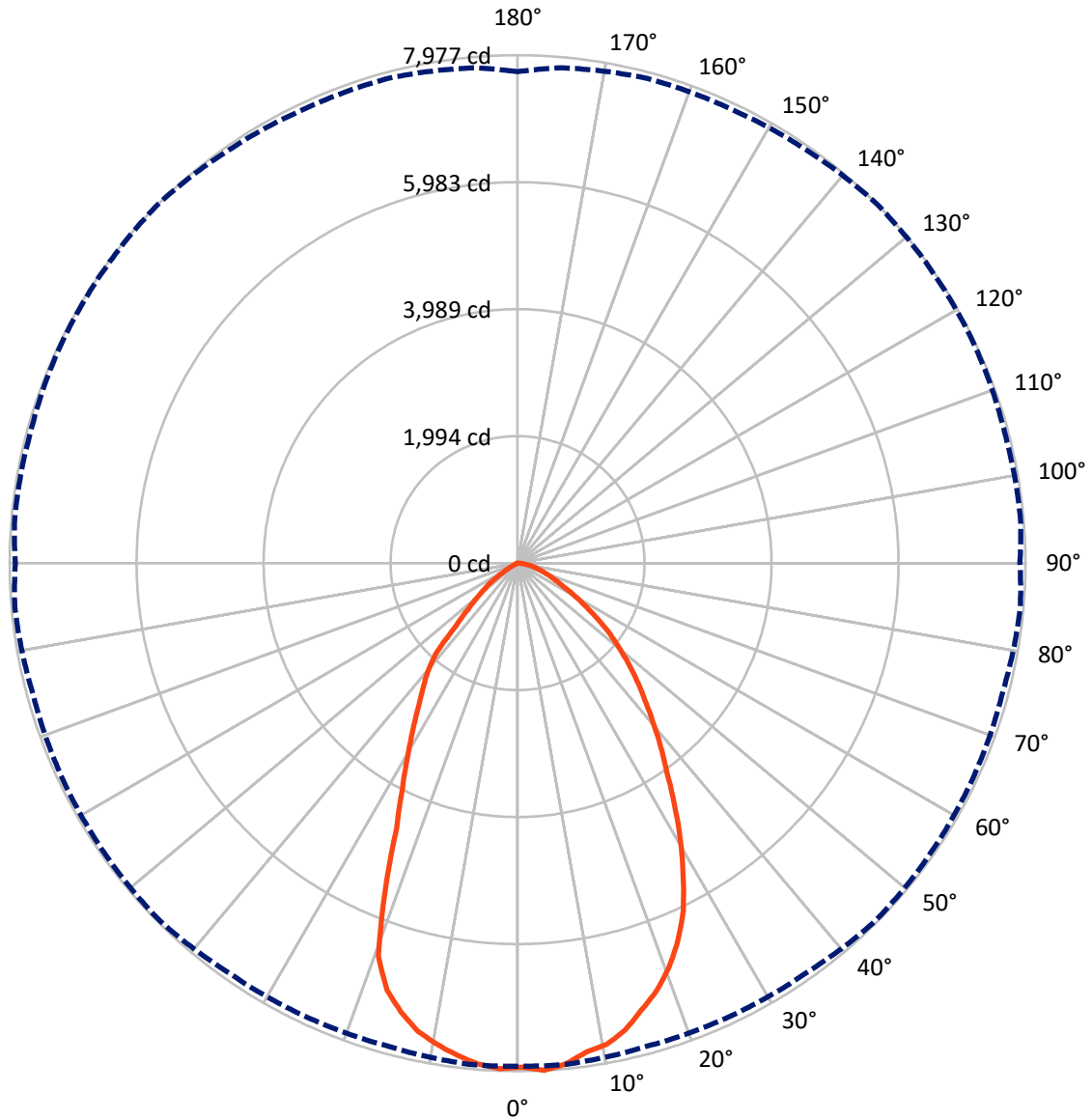
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.8 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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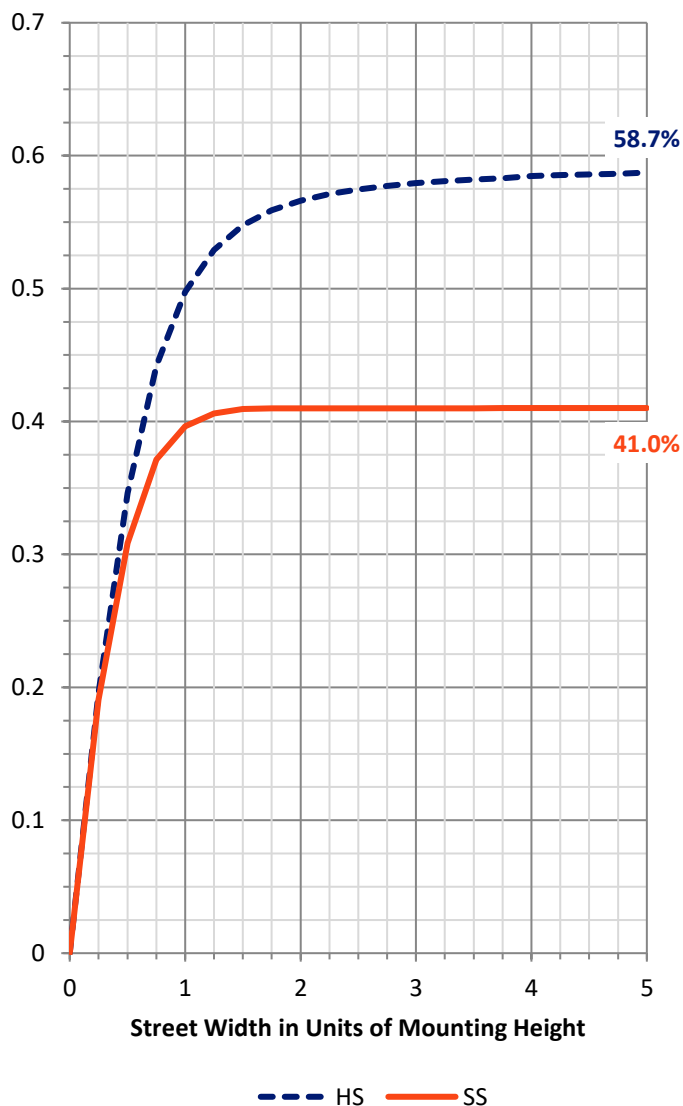
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6159.4	0.0	6159.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4240.6	0.0	4240.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	10400.0	0.0	10400.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	742.2	7.1
10°-20°	1990.4	19.1
20°-30°	2427.4	23.3
30°-40°	2216.2	21.3
40°-50°	1601.6	15.4
50°-60°	874.5	8.4
60°-70°	361.6	3.5
70°-80°	146.4	1.4
80°-90°	39.8	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°	10400.0	100.0
0°-180°	10400.0	100.0



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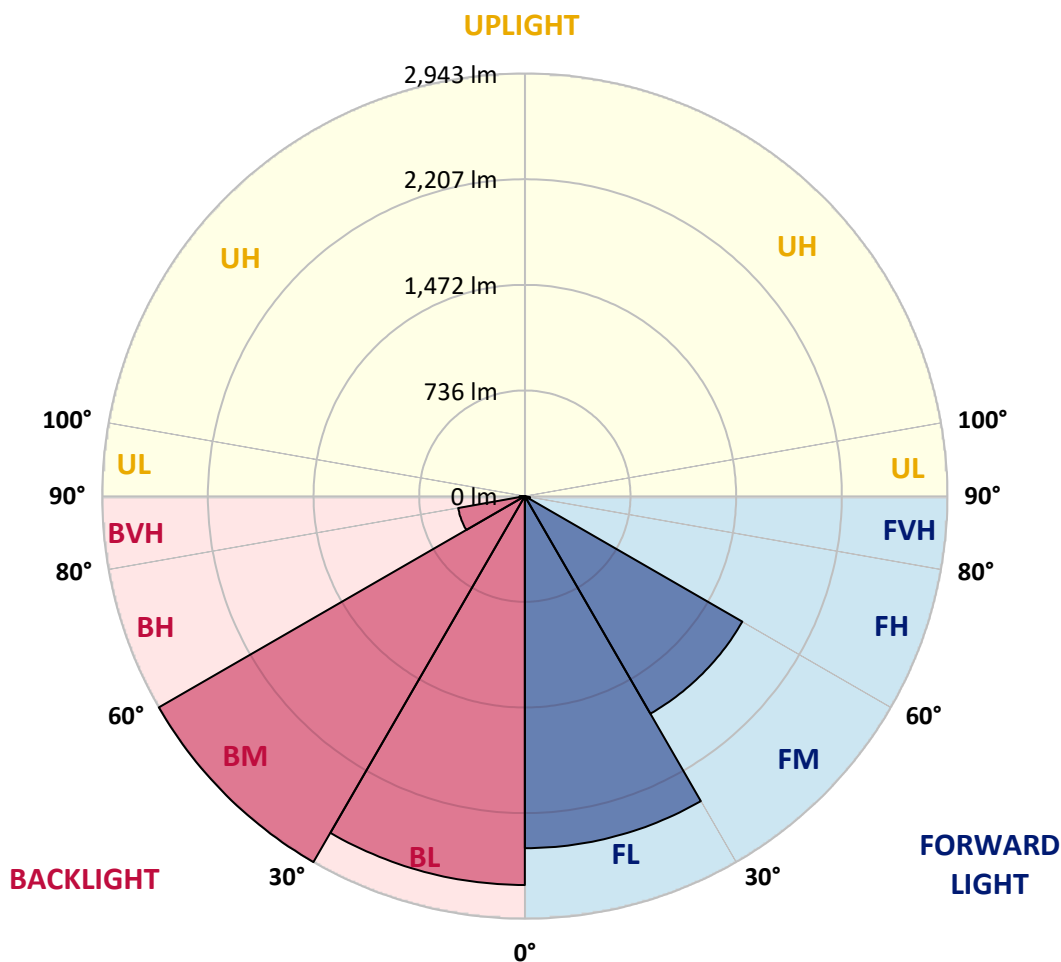
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2451.7	23.6			
FM (30°-60°)	1749.1	16.8			
FH (60°-80°)	36.7	0.4			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	2708.3	26.0	B4/5000		
BM (30°-60°)	2943.1	28.3	B3/5000		
BH (60°-80°)	471.3	4.5	B1/500		G1/500
BVH (80°-90°)	36.6	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°	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4
2.5°	7899.7	7910.0	7854.3	7860.2	7870.4	7945.1	7926.1	7908.5	7883.6	7926.1
5°	7889.5	7895.3	7836.7	7816.2	7825.0	7892.4	7830.9	7830.9	7825.0	7817.7
7.5°	7810.4	7813.3	7767.9	7731.3	7754.7	7785.5	7740.1	7762.0	7729.8	7754.7
10°	7691.8	7672.7	7618.5	7608.3	7634.6	7663.9	7633.2	7653.7	7624.4	7643.4
12.5°	7517.5	7488.2	7444.2	7431.1	7476.5	7516.0	7491.1	7479.4	7441.3	7488.2
15°	6845.2	6823.3	6922.9	7097.1	7253.9	7287.5	7261.2	7272.9	7193.8	7207.0
17.5°	5634.1	5593.1	5700.0	6113.0	6701.7	7012.2	6988.8	6912.6	6795.5	6821.8
20°	5120.0	5108.3	5096.6	5194.7	5606.2	6547.9	6580.2	6386.8	6219.9	6183.3
22.5°	4830.0	4825.7	4813.9	4835.9	4944.3	5549.1	5918.2	5739.5	5628.2	5618.0
25°	4565.0	4557.6	4522.5	4550.3	4550.3	4585.5	5058.5	5166.9	5068.8	5057.0
27.5°	4295.5	4282.3	4276.4	4289.6	4222.3	3985.0	4105.1	4633.8	4582.5	4585.5
30°	4004.0	3999.7	3983.5	4011.4	3803.4	3509.0	3432.9	4150.5	4160.8	4157.8
32.5°	3570.5	3589.6	3662.8	3693.6	3350.9	3107.7	2980.3	3591.0	3800.5	3796.1
35°	2593.7	2593.7	2832.4	3276.2	2936.4	2753.3	2684.5	3044.8	3444.6	3459.2
37.5°	2132.4	2139.7	2186.6	2388.7	2533.7	2469.2	2448.7	2562.9	2987.7	3011.1
40°	1918.5	1918.5	1918.5	1835.1	1830.7	2224.6	2212.9	2176.3	2580.5	2631.8
42.5°	1723.8	1728.2	1731.1	1520.2	1403.0	1922.9	1896.6	1840.9	2215.8	2275.9
45°	1523.1	1530.4	1539.2	1271.2	1220.0	1384.0	1605.1	1543.6	1855.6	1933.2
47.5°	930.0	941.7	1140.9	1077.9	1083.8	1067.6	1309.3	1299.0	1521.7	1631.5
50°	628.3	632.7	651.7	683.9	930.0	839.2	927.1	1075.0	1155.5	1322.5
52.5°	527.2	534.6	487.7	443.8	610.7	656.1	647.3	798.2	830.4	1036.9
55°	370.5	394.0	372.0	367.6	347.1	509.7	490.6	613.6	634.1	787.9
57.5°	38.1	43.9	76.2	273.9	227.0	288.5	350.0	449.6	470.1	581.4
60°	2.9	2.9	7.3	38.1	165.5	172.8	241.6	276.8	316.3	405.7
62.5°	0.0	1.5	2.9	5.9	26.4	92.3	121.6	145.0	190.4	262.2
65°	0.0	0.0	1.5	4.4	5.9	35.1	46.9	76.2	104.0	162.6
67.5°	0.0	0.0	1.5	2.9	4.4	8.8	16.1	27.8	55.7	92.3
70°	0.0	0.0	1.5	2.9	4.4	7.3	11.7	17.6	24.9	49.8
72.5°	0.0	0.0	1.5	1.5	2.9	7.3	8.8	11.7	17.6	24.9
75°	0.0	0.0	1.5	1.5	4.4	8.8	7.3	8.8	11.7	16.1
77.5°	0.0	0.0	1.5	2.9	4.4	8.8	7.3	8.8	8.8	10.3
80°	0.0	0.0	1.5	2.9	5.9	10.3	8.8	8.8	7.3	7.3
82.5°	0.0	0.0	1.5	4.4	5.9	13.2	13.2	11.7	5.9	4.4
85°	0.0	0.0	2.9	5.9	8.8	14.6	14.6	11.7	4.4	2.9
87.5°	0.0	0.0	2.9	4.4	7.3	10.3	14.6	11.7	4.4	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°
7914.4	0°	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4
7889.5	2.5°	7929.0	7920.2	7949.5	7961.2	7977.3	7915.8	7877.7	7879.2	7808.9
7800.1	5°	7847.0	7848.5	7886.5	7883.6	7899.7	7866.0	7851.4	7826.5	7765.0
7687.4	7.5°	7743.0	7729.8	7766.4	7794.3	7753.3	7776.7	7743.0	7754.7	7718.1
7587.8	10°	7662.5	7631.7	7665.4	7684.4	7685.9	7662.5	7630.2	7599.5	7586.3
7432.5	12.5°	7483.8	7444.2	7501.4	7527.7	7523.3	7477.9	7441.3	7448.6	7406.2
7160.1	15°	7237.7	7239.2	7280.2	7305.1	7281.7	7271.4	7274.4	7256.8	7220.2
6783.7	17.5°	6861.4	6883.3	6991.7	7051.7	7064.9	7044.4	7034.2	7013.7	6977.1
6183.3	20°	6234.5	6366.3	6559.7	6745.7	6782.3	6776.4	6739.8	6731.0	6710.5
5588.7	22.5°	5683.9	5782.0	6006.1	6296.0	6445.4	6460.1	6416.1	6403.0	6381.0
5057.0	25°	5114.2	5219.6	5421.7	5736.6	6045.6	6108.6	6101.3	6061.7	6038.3
4585.5	27.5°	4633.8	4739.2	4922.3	5206.4	5537.4	5739.5	5758.6	5695.6	5694.1
4165.1	30°	4200.3	4345.3	4484.4	4715.8	5036.5	5339.7	5371.9	5328.0	5332.4
3780.0	32.5°	3860.5	3980.6	4099.2	4254.5	4521.0	4874.0	4999.9	4958.9	4942.8
3459.2	35°	3513.4	3595.4	3717.0	3859.1	4040.7	4390.7	4608.9	4578.1	4562.0
3025.7	37.5°	3118.0	3258.6	3346.5	3506.1	3648.2	3926.4	4234.0	4229.6	4195.9
2656.7	40°	2712.3	2860.2	2993.5	3154.6	3264.5	3485.6	3826.8	3825.4	3829.8
2274.4	42.5°	2344.7	2480.9	2642.0	2817.8	2923.2	3084.3	3450.5	3471.0	3495.9
1959.6	45°	2012.3	2135.3	2284.7	2498.5	2625.9	2718.2	3043.3	3137.0	3135.6
1678.4	47.5°	1713.5	1829.2	1955.2	2163.1	2325.7	2409.2	2678.6	2811.9	2803.1
1376.7	50°	1438.2	1540.7	1672.5	1823.3	2041.6	2114.8	2315.4	2491.2	2478.0
1096.9	52.5°	1157.0	1299.0	1410.3	1548.0	1777.9	1849.7	2005.0	2176.3	2166.1
823.1	55°	902.2	1039.8	1174.6	1293.2	1486.5	1593.4	1704.7	1880.5	1877.5
644.4	57.5°	682.5	833.3	960.7	1073.5	1227.3	1359.1	1448.4	1608.1	1628.6
440.8	60°	505.3	621.0	758.6	884.6	1006.1	1142.3	1202.4	1359.1	1367.9
301.7	62.5°	344.2	471.6	606.3	720.6	811.4	951.9	1006.1	1135.0	1151.1
193.3	65°	238.7	320.7	474.5	556.5	667.8	787.9	842.1	944.6	976.8
111.3	67.5°	158.2	228.5	370.5	445.2	555.1	637.1	705.9	789.4	824.5
70.3	70°	86.4	168.4	265.1	351.5	446.7	525.8	593.1	660.5	691.3
32.2	72.5°	58.6	112.8	184.5	278.3	360.3	437.9	497.9	547.7	549.2
19.0	75°	29.3	76.2	140.6	215.3	281.2	357.3	411.5	440.8	405.7
11.7	77.5°	17.6	55.7	114.2	172.8	228.5	288.5	319.3	335.4	278.3
8.8	80°	10.3	39.5	89.3	137.7	158.2	212.4	241.6	246.0	186.0
5.9	82.5°	7.3	29.3	70.3	101.1	96.7	149.4	181.6	175.7	118.6
4.4	85°	4.4	20.5	43.9	63.0	58.6	98.1	105.4	108.4	68.8
2.9	87.5°	2.9	11.7	23.4	33.7	27.8	42.5	42.5	51.3	33.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7914.4
7718.1
7750.3
7656.6
7527.7
7369.6
7183.6
6960.9
6663.6
6375.1
6013.4
5691.2
5310.4
4944.3
4540.1
4223.7
3829.8
3482.7
3138.5
2806.1
2489.7
2188.0
1884.9
1619.8
1381.1
1154.1
969.5
820.1
679.5
536.0
379.3
268.0
174.3
109.8
63.0
29.3
0.0

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