

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: P637829

Luminaire Tested: **IFLD-M-SA4E-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637829
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25530.7 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

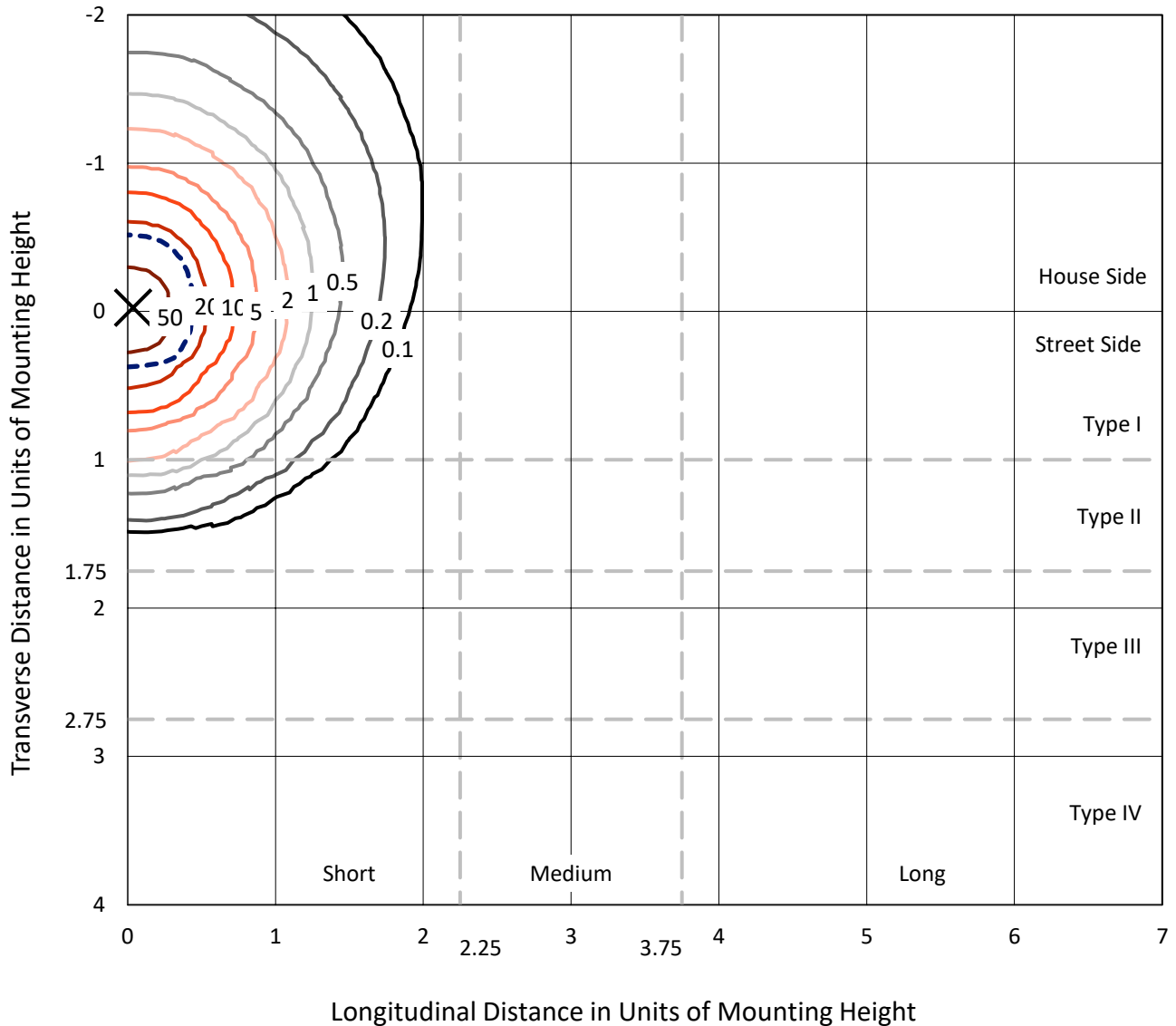
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

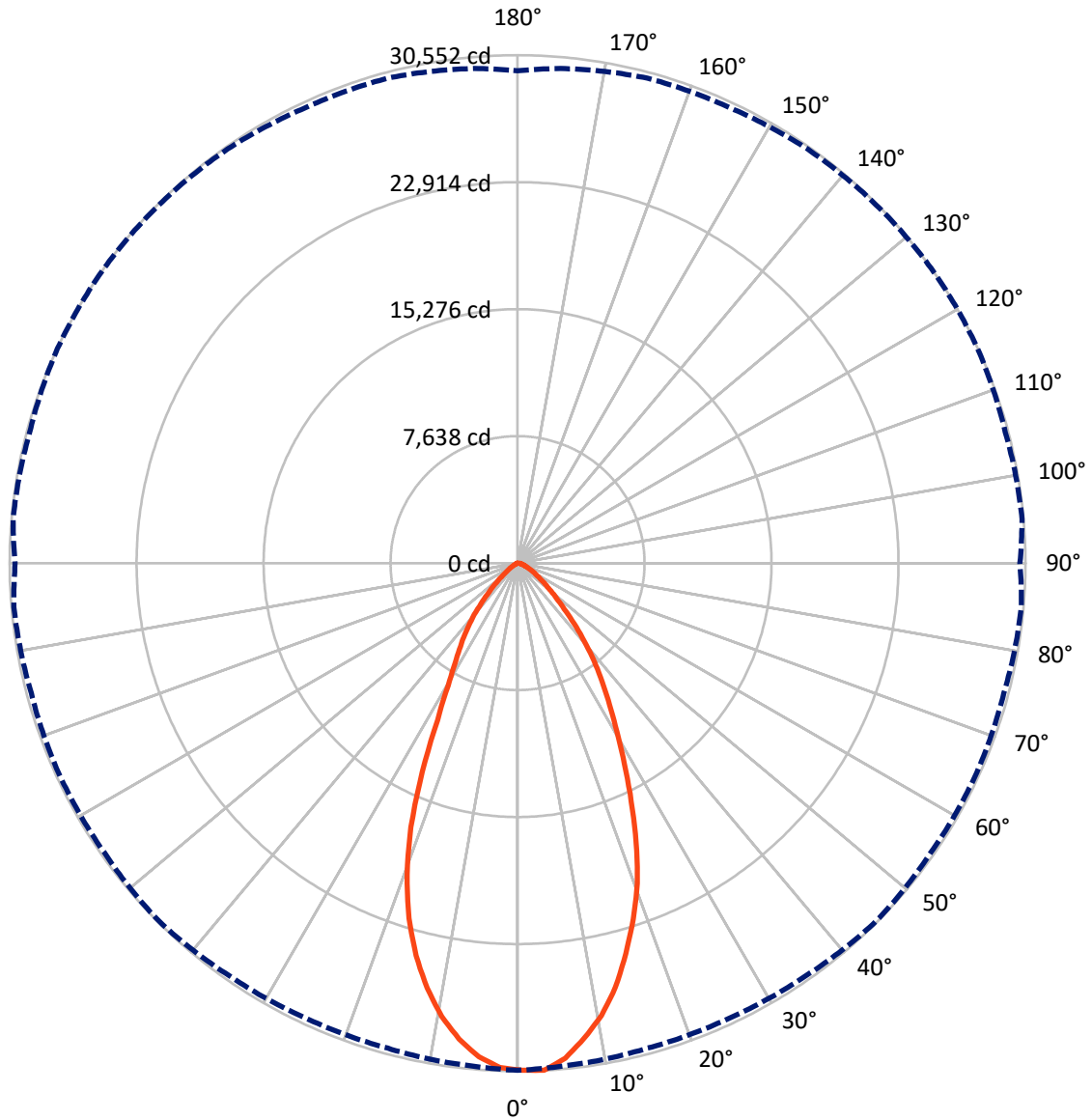
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 76.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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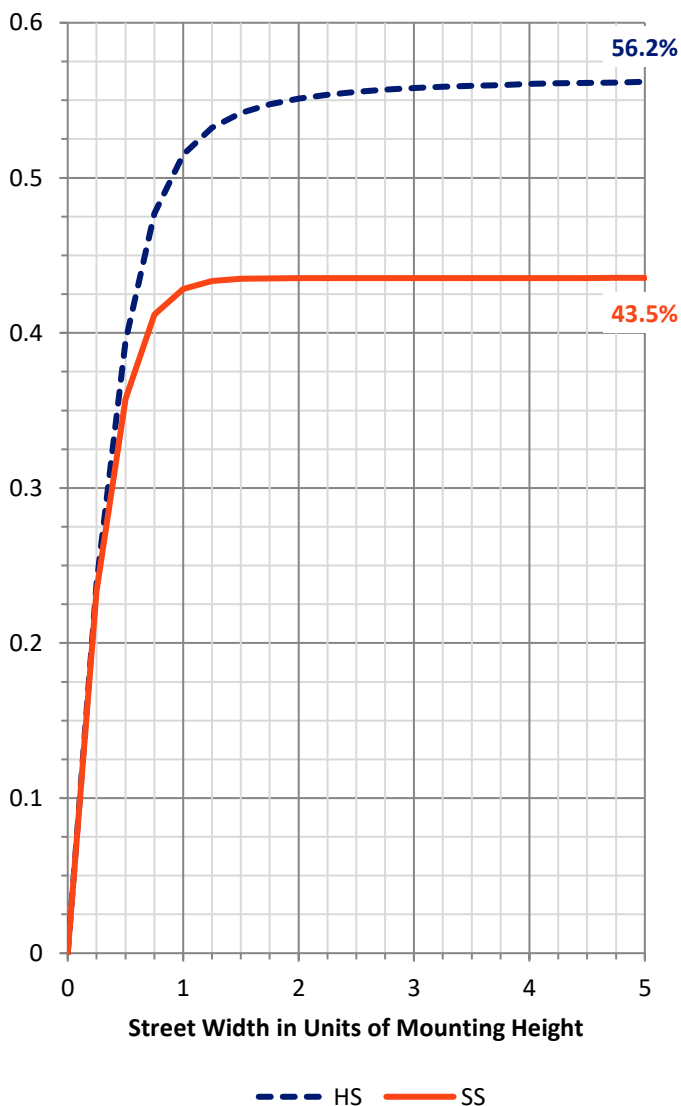
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14487.1	0.0	14487.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	11043.6	0.0	11043.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	25530.7	0.0	25530.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2769.8	10.8
10°-20°	6602.6	25.9
20°-30°	6724.6	26.3
30°-40°	5014.5	19.6
40°-50°	2619.7	10.3
50°-60°	1101.9	4.3
60°-70°	450.0	1.8
70°-80°	189.4	0.7
80°-90°	58.4	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°	25530.7	100.0
0°-180°	25530.7	100.0

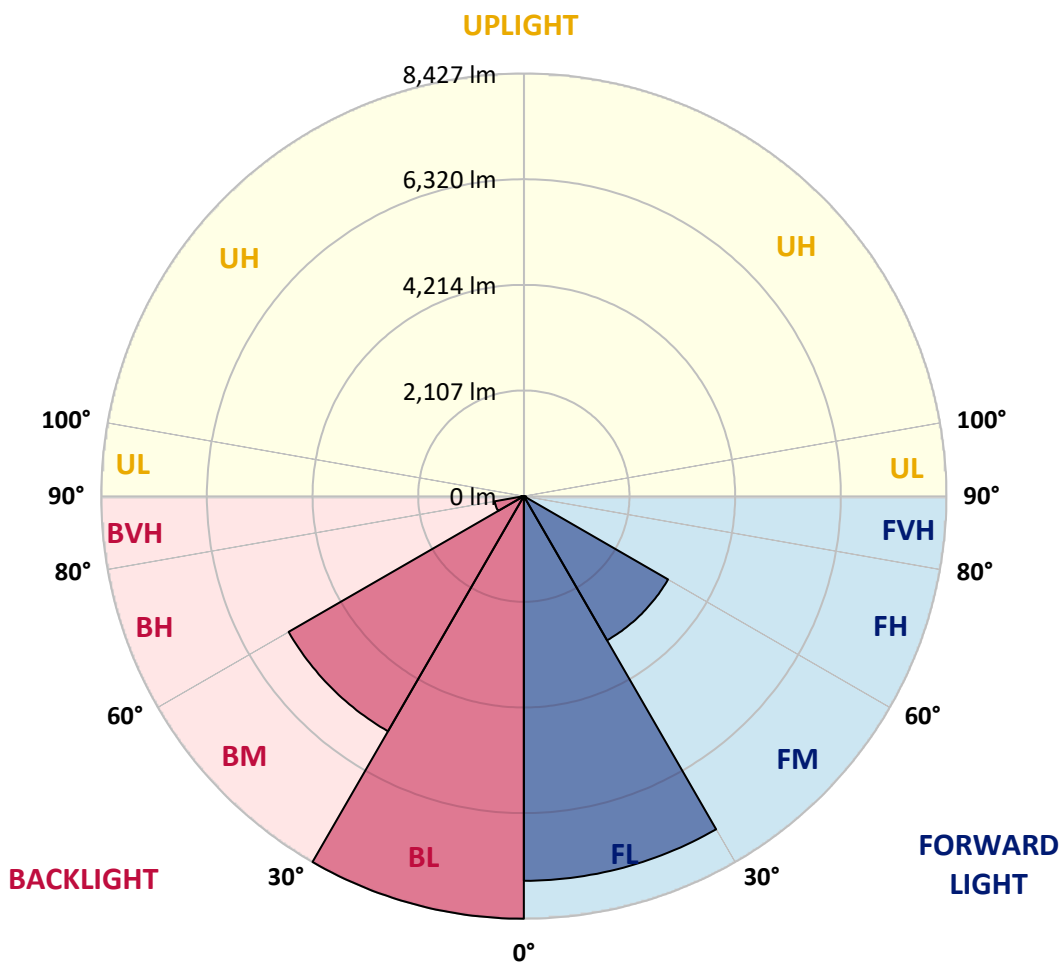


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7669.7	30.0			
FM (30°-60°)	3320.4	13.0			
FH (60°-80°)	48.0	0.2			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	8427.2	33.0	B5		
BM (30°-60°)	5415.7	21.2	B4/8500		
BH (60°-80°)	591.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	52.9	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-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	30503.0	30503.0	30503.0	30503.0	30503.0	30503.0	30503.0	30503.0	30503.0	30503.0
2.5°	30506.3	30381.7	30204.6	30188.2	30280.0	30480.0	30352.1	30358.7	30280.0	30414.5
5°	30027.5	29909.4	29788.1	29627.4	29761.8	29847.1	29781.5	29709.4	29607.7	29738.9
7.5°	29122.3	29056.7	28876.3	28804.2	28886.2	28981.3	28840.3	28820.6	28679.6	28850.1
10°	27738.3	27712.1	27535.0	27492.4	27564.5	27708.8	27646.5	27633.4	27544.9	27528.5
12.5°	26301.9	26200.2	25980.5	25967.4	26075.6	26292.1	26124.8	25964.1	26013.3	26055.9
15°	22602.6	22494.4	23038.8	23894.7	24344.0	24327.6	24376.8	24183.3	24124.3	24144.0
17.5°	17968.6	17784.9	17981.7	19306.7	21441.6	22681.3	22340.2	21923.7	21700.7	21553.1
20°	15508.9	15518.8	15482.7	15823.8	17155.3	19982.2	19900.2	19096.8	18804.9	18683.5
22.5°	14013.5	13957.7	13879.0	13987.2	14344.7	16004.2	17115.9	16378.0	16276.4	16141.9
25°	12547.5	12547.5	12452.4	12560.6	12662.3	12685.3	13800.3	14102.0	13905.2	13905.2
27.5°	11278.3	11212.7	11170.1	11219.3	11084.8	10438.8	10579.8	12124.5	11990.0	11908.0
30°	10019.0	9999.3	9927.2	9992.8	9494.3	8766.2	8471.1	10232.2	10373.2	10343.7
32.5°	8271.0	8349.7	8671.1	8772.8	7920.1	7333.1	7051.0	8494.0	9058.1	9035.1
35°	5621.1	5686.7	6054.0	7267.5	6565.6	6145.9	6063.9	6755.9	7684.0	7772.5
37.5°	4476.6	4466.7	4571.7	4788.1	5276.8	5175.1	5152.2	5332.5	6267.2	6306.6
40°	3689.5	3676.4	3673.1	3496.0	3374.6	4302.8	4240.4	4132.2	4942.3	5021.0
42.5°	2974.5	2987.7	2997.5	2610.5	2433.4	3318.9	3282.8	3171.3	3876.4	3968.2
45°	2335.0	2331.8	2351.4	1944.8	1895.6	2121.9	2453.1	2364.5	2925.3	3023.7
47.5°	1210.2	1252.8	1518.4	1505.3	1528.3	1505.3	1856.2	1833.3	2200.6	2358.0
50°	813.3	826.4	849.4	852.7	1203.6	1108.5	1259.3	1426.6	1541.4	1784.1
52.5°	629.7	639.5	580.5	544.4	737.9	819.9	826.4	987.1	1075.7	1321.7
55°	350.9	393.5	423.1	426.3	406.7	606.7	603.4	731.3	800.2	964.2
57.5°	45.9	55.8	85.3	275.5	272.2	337.8	423.1	531.3	570.6	705.1
60°	3.3	6.6	9.8	42.6	180.4	196.8	288.6	331.2	396.8	495.2
62.5°	0.0	0.0	3.3	9.8	36.1	114.8	150.9	173.8	232.8	324.7
65°	0.0	0.0	3.3	6.6	13.1	42.6	59.0	95.1	137.7	200.1
67.5°	0.0	0.0	3.3	6.6	9.8	16.4	26.2	42.6	72.1	121.3
70°	0.0	0.0	3.3	6.6	9.8	13.1	19.7	26.2	39.4	65.6
72.5°	0.0	0.0	3.3	3.3	6.6	16.4	16.4	19.7	26.2	36.1
75°	0.0	0.0	3.3	6.6	9.8	16.4	16.4	16.4	19.7	23.0
77.5°	0.0	0.0	3.3	6.6	9.8	16.4	13.1	16.4	16.4	16.4
80°	0.0	0.0	3.3	6.6	9.8	16.4	19.7	16.4	13.1	13.1
82.5°	0.0	0.0	3.3	9.8	9.8	23.0	23.0	23.0	9.8	9.8
85°	0.0	0.0	6.6	9.8	16.4	26.2	26.2	19.7	9.8	6.6
87.5°	0.0	0.0	3.3	6.6	6.6	13.1	19.7	16.4	6.6	3.3
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°
30503.0	0°	30503.0	30503.0	30503.0	30503.0	30503.0	30503.0	30503.0	30503.0	30503.0
30217.7	2.5°	30460.4	30378.4	30532.5	30552.2	30486.6	30404.6	30214.4	30198.0	29866.8
29548.7	5°	29883.2	29748.7	29847.1	29912.7	29889.7	29801.2	29722.5	29650.3	29351.9
28463.1	7.5°	28807.5	28758.3	28804.2	28853.4	28948.5	28853.4	28820.6	28745.2	28450.0
27394.0	10°	27613.7	27521.9	27695.7	27672.8	27646.5	27620.3	27482.5	27495.7	27148.0
25937.9	12.5°	26147.8	25993.6	26160.9	26180.6	26160.9	26069.1	25914.9	25980.5	25662.4
23970.2	15°	24176.8	24160.4	24281.7	24360.4	24416.2	24317.8	24265.3	24298.1	24107.9
21438.4	17.5°	21756.5	21969.6	22366.5	22500.9	22504.2	22605.9	22576.4	22537.0	22396.0
18634.3	20°	18909.8	19319.8	19929.8	20556.2	20736.5	20651.3	20611.9	20684.1	20474.2
16000.9	22.5°	16282.9	16633.8	17342.2	18257.2	18785.2	18837.7	18827.8	18765.5	18683.5
13892.1	25°	14052.8	14364.4	15043.2	15879.5	16892.9	17043.8	17050.3	17030.7	16958.5
11980.2	27.5°	12170.4	12547.5	12921.4	13669.1	14748.1	15371.2	15292.5	15269.5	15243.3
10366.6	30°	10465.0	10940.5	11291.5	11757.2	12724.6	13567.5	13649.4	13610.1	13547.8
9031.9	32.5°	9113.8	9395.9	9841.9	10156.7	10852.0	11806.3	12121.2	12091.7	12035.9
7828.3	35°	7939.8	8051.3	8402.2	8753.1	9215.5	10140.3	10606.0	10540.4	10530.6
6378.7	37.5°	6539.4	6913.3	7106.8	7461.0	7785.6	8503.8	9146.6	9117.1	9120.4
5129.2	40°	5280.1	5496.5	5880.2	6178.7	6477.1	7001.8	7716.8	7736.4	7729.9
3971.5	42.5°	4053.5	4263.4	4666.8	4991.5	5257.1	5581.8	6263.9	6286.9	6316.4
3092.6	45°	3164.8	3299.2	3594.4	3932.2	4214.2	4411.0	4929.1	5076.7	5080.0
2397.3	47.5°	2456.4	2610.5	2820.4	3145.1	3420.6	3561.6	3938.7	4138.8	4128.9
1839.8	50°	1928.4	2069.4	2239.9	2495.7	2794.2	2905.7	3184.4	3381.2	3371.4
1387.2	52.5°	1475.8	1656.2	1807.0	2003.8	2295.7	2390.8	2590.8	2817.1	2784.3
1016.7	55°	1118.3	1302.0	1443.0	1607.0	1872.6	1994.0	2131.7	2312.1	2318.6
787.1	57.5°	842.8	1033.1	1161.0	1328.2	1528.3	1662.7	1767.7	1961.2	1957.9
537.8	60°	603.4	767.4	921.6	1095.4	1249.5	1403.6	1475.8	1659.4	1666.0
380.4	62.5°	436.2	590.3	737.9	888.8	1026.5	1177.4	1242.9	1387.2	1406.9
249.2	65°	305.0	413.2	583.8	698.5	852.7	964.2	1049.5	1174.1	1197.0
147.6	67.5°	196.8	298.4	462.4	564.1	705.1	800.2	888.8	987.1	1016.7
95.1	70°	118.1	226.3	344.4	452.6	580.5	665.7	751.0	836.3	852.7
45.9	72.5°	75.4	157.4	249.2	367.3	465.7	557.5	633.0	695.3	646.1
29.5	75°	42.6	108.2	196.8	288.6	377.1	465.7	528.0	560.8	449.3
19.7	77.5°	26.2	78.7	160.7	232.8	291.9	373.9	413.2	432.9	321.4
13.1	80°	16.4	59.0	134.5	190.2	190.2	275.5	321.4	337.8	232.8
9.8	82.5°	13.1	42.6	104.9	144.3	127.9	206.6	252.5	255.8	164.0
6.6	85°	9.8	32.8	65.6	95.1	88.5	144.3	147.6	164.0	108.2
6.6	87.5°	6.6	19.7	39.4	55.8	49.2	68.9	78.7	88.5	59.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
30503.0
29607.7
29112.5
28387.7
27030.0
25570.6
23878.3
22186.1
20323.3
18526.1
16715.8
15089.2
13469.1
11888.3
10422.4
9015.5
7615.1
6218.0
4994.7
4092.9
3371.4
2787.6
2318.6
1951.3
1649.6
1400.4
1190.5
1013.4
839.6
600.2
426.3
301.7
216.4
150.9
98.4
52.5
0.0

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