

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: P638121

Luminaire Tested: **IFLD-L-SA7B-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638121
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24943.4 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

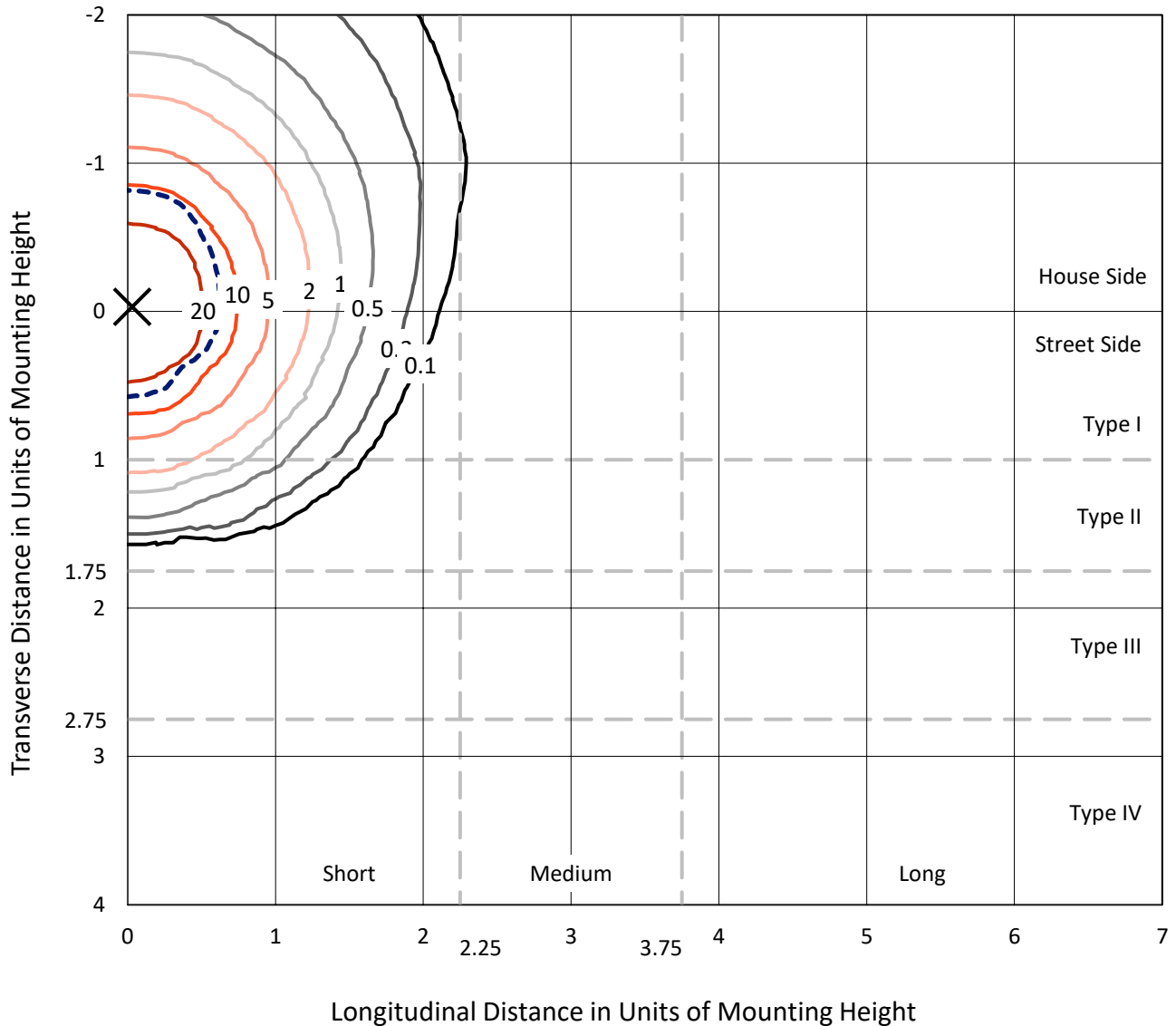
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638121
 CATALOG NUMBER: IFLD-L-SA7B-730-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

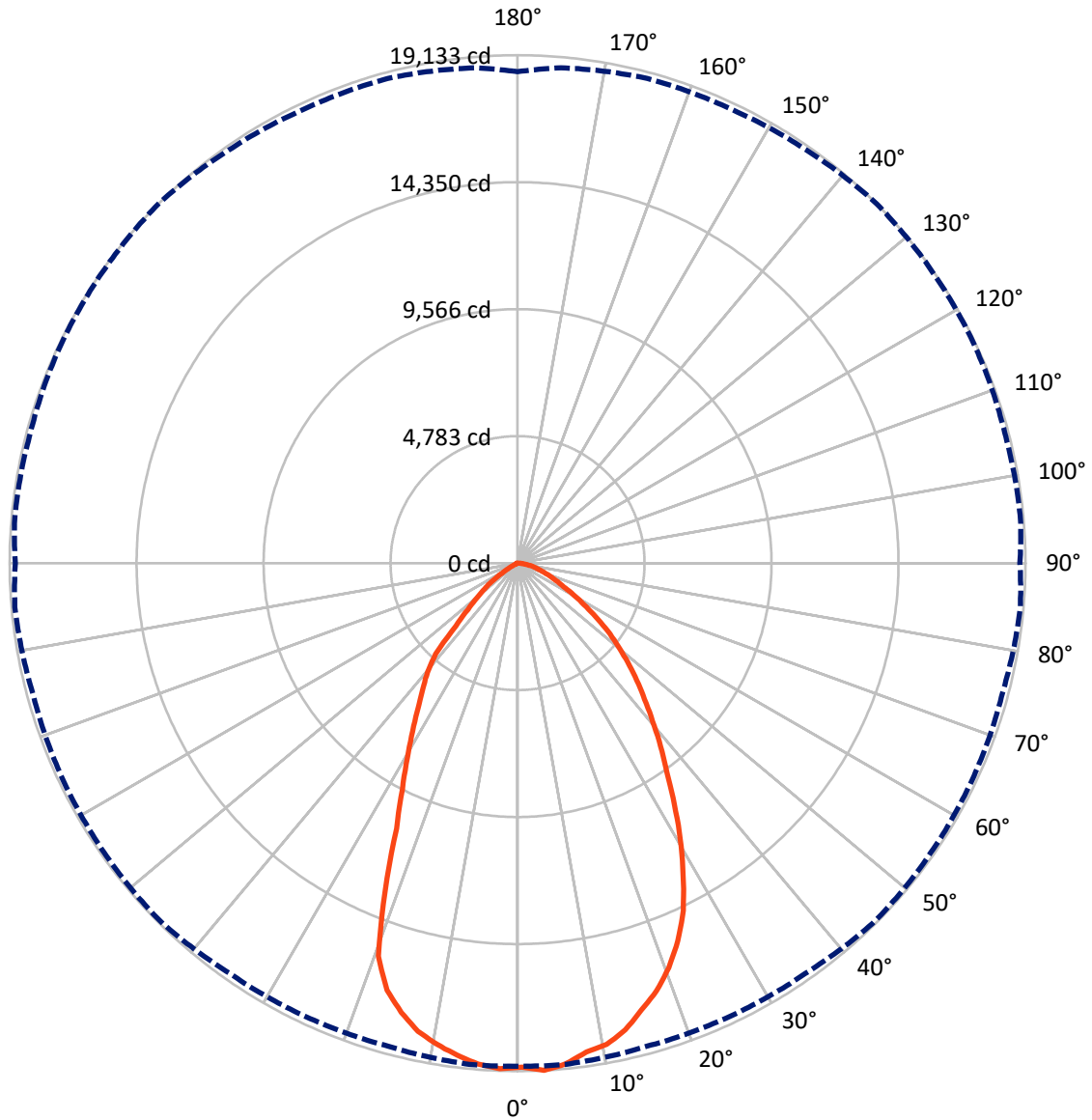
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 47.5 fc
 Type I - Short - N/A

REPORT NUMBER: P638121
CATALOG NUMBER: IFLD-L-SA7B-730-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638121
 CATALOG NUMBER: IFLD-L-SA7B-730-U-77-VI

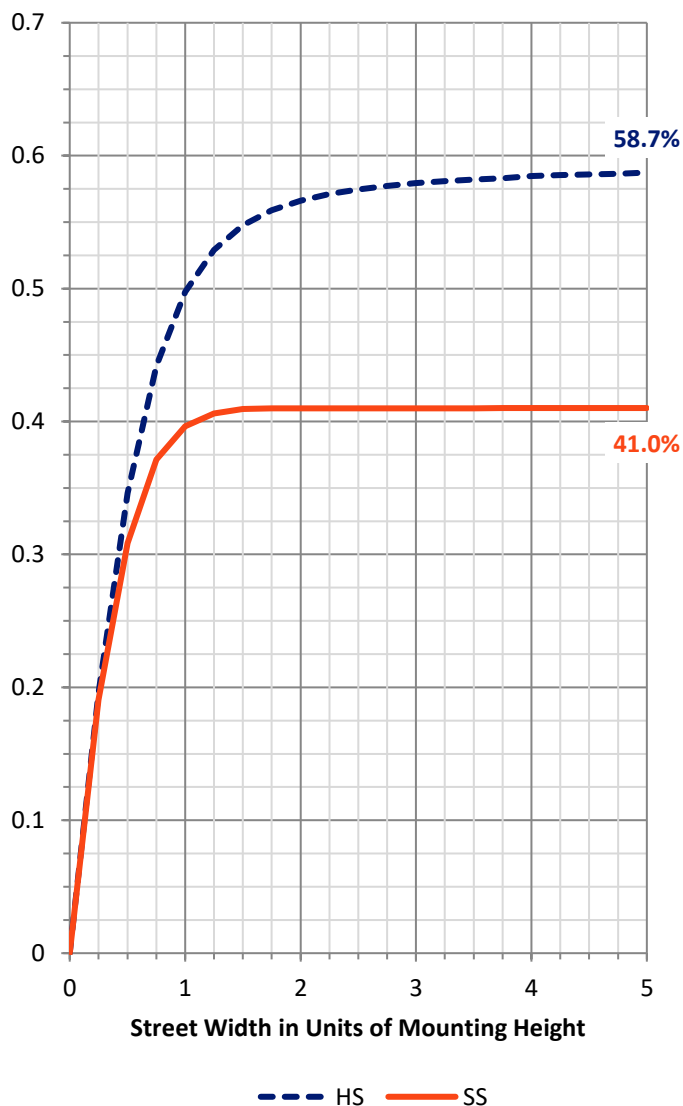
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14772.8	0.0	14772.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10170.6	0.0	10170.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	24943.4	0.0	24943.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1780.2	7.1
10°-20°	4773.7	19.1
20°-30°	5821.8	23.3
30°-40°	5315.2	21.3
40°-50°	3841.2	15.4
50°-60°	2097.3	8.4
60°-70°	867.2	3.5
70°-80°	351.2	1.4
80°-90°	95.5	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°	24943.4	100.0
0°-180°	24943.4	100.0



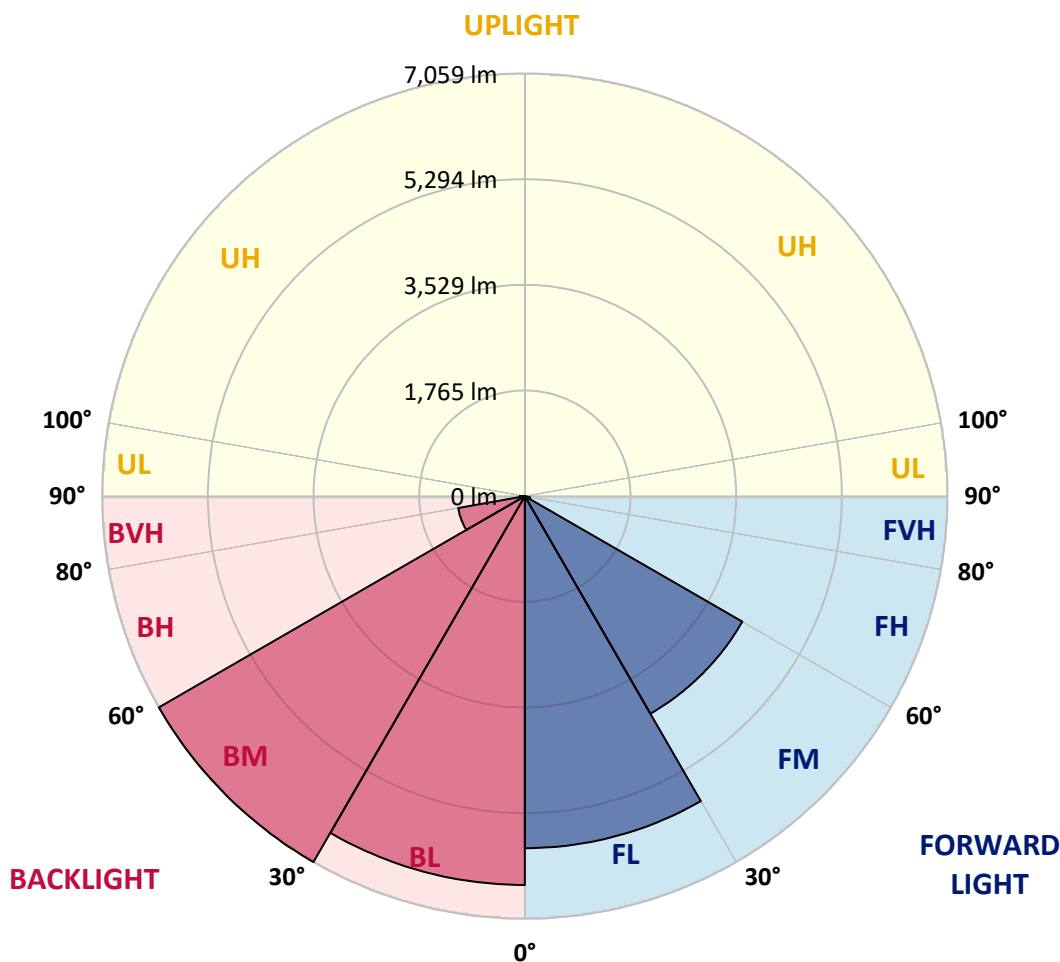
REPORT NUMBER: P638121
 CATALOG NUMBER: IFLD-L-SA7B-730-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5880.1	23.6			
FM (30°-60°)	4195.0	16.8			
FH (60°-80°)	87.9	0.4			G0/660
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	6495.6	26.0	B5		
BM (30°-60°)	7058.8	28.3	B4/8500		
BH (60°-80°)	1130.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	87.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





REPORT NUMBER: P638121
 CATALOG NUMBER: IFLD-L-SA7B-730-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18981.8	18981.8	18981.8	18981.8	18981.8	18981.8	18981.8	18981.8	18981.8	18981.8
2.5°	18946.7	18971.3	18837.8	18851.9	18876.5	19055.6	19009.9	18967.8	18908.1	19009.9
5°	18922.1	18936.2	18795.7	18746.5	18767.6	18929.2	18781.6	18781.6	18767.6	18750.0
7.5°	18732.4	18739.5	18630.6	18542.8	18599.0	18672.7	18563.8	18616.5	18539.3	18599.0
10°	18447.9	18402.3	18272.3	18247.7	18310.9	18381.2	18307.4	18356.6	18286.4	18332.0
12.5°	18029.9	17959.7	17854.3	17822.7	17931.6	18026.4	17966.7	17938.6	17847.3	17959.7
15°	16417.7	16365.0	16603.8	17021.8	17397.7	17478.5	17415.2	17443.3	17253.7	17285.3
17.5°	13512.8	13414.4	13670.9	14661.4	16073.4	16818.1	16761.9	16579.3	16298.2	16361.5
20°	12279.9	12251.8	12223.7	12459.0	13446.1	15704.6	15781.9	15318.2	14917.8	14830.0
22.5°	11584.4	11573.9	11545.8	11598.5	11858.4	13309.1	14194.2	13765.7	13498.7	13474.2
25°	10948.6	10931.1	10846.8	10913.5	10913.5	10997.8	12132.4	12392.3	12156.9	12128.8
27.5°	10302.3	10270.7	10256.7	10288.3	10126.7	9557.7	9845.7	11113.7	10990.8	10997.8
30°	9603.3	9592.8	9554.1	9620.9	9122.1	8416.1	8233.4	9954.6	9979.2	9972.1
32.5°	8563.6	8609.3	8784.9	8858.7	8036.7	7453.6	7148.0	8612.8	9115.1	9104.5
35°	6220.7	6220.7	6793.3	7857.6	7042.7	6603.6	6438.5	7302.6	8261.5	8296.7
37.5°	5114.3	5131.8	5244.2	5729.0	6076.7	5922.2	5873.0	6147.0	7165.6	7221.8
40°	4601.4	4601.4	4601.4	4401.2	4390.7	5335.6	5307.5	5219.7	6189.1	6312.1
42.5°	4134.3	4144.8	4151.8	3646.0	3365.0	4612.0	4548.8	4415.3	5314.5	5458.5
45°	3653.1	3670.6	3691.7	3048.9	2926.0	3319.4	3849.8	3702.2	4450.4	4636.6
47.5°	2230.5	2258.6	2736.3	2585.2	2599.3	2560.7	3140.2	3115.6	3649.5	3913.0
50°	1506.9	1517.4	1563.1	1640.4	2230.5	2012.7	2223.4	2578.2	2771.4	3171.8
52.5°	1264.5	1282.1	1169.7	1064.3	1464.7	1573.6	1552.5	1914.3	1991.6	2486.9
55°	888.7	944.9	892.2	881.7	832.5	1222.4	1176.7	1471.8	1520.9	1889.8
57.5°	91.3	105.4	182.7	656.8	544.4	692.0	839.5	1078.4	1127.5	1394.5
60°	7.0	7.0	17.6	91.3	396.9	414.5	579.6	663.9	758.7	973.0
62.5°	0.0	3.5	7.0	14.1	63.2	221.3	291.5	347.7	456.6	628.7
65°	0.0	0.0	3.5	10.5	14.1	84.3	112.4	182.7	249.4	389.9
67.5°	0.0	0.0	3.5	7.0	10.5	21.1	38.6	66.7	133.5	221.3
70°	0.0	0.0	3.5	7.0	10.5	17.6	28.1	42.2	59.7	119.4
72.5°	0.0	0.0	3.5	3.5	7.0	17.6	21.1	28.1	42.2	59.7
75°	0.0	0.0	3.5	3.5	10.5	21.1	17.6	21.1	28.1	38.6
77.5°	0.0	0.0	3.5	7.0	10.5	21.1	17.6	21.1	21.1	24.6
80°	0.0	0.0	3.5	7.0	14.1	24.6	21.1	21.1	17.6	17.6
82.5°	0.0	0.0	3.5	10.5	14.1	31.6	31.6	28.1	14.1	10.5
85°	0.0	0.0	7.0	14.1	21.1	35.1	35.1	28.1	10.5	7.0
87.5°	0.0	0.0	7.0	10.5	17.6	24.6	35.1	28.1	10.5	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638121

CATALOG NUMBER: IFLD-L-SA7B-730-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
18981.8	0°	18981.8	18981.8	18981.8	18981.8	18981.8	18981.8	18981.8	18981.8	18981.8
18922.1	2.5°	19017.0	18995.9	19066.1	19094.2	19132.9	18985.4	18894.0	18897.5	18728.9
18707.9	5°	18820.3	18823.8	18915.1	18908.1	18946.7	18865.9	18830.8	18771.1	18623.6
18437.4	7.5°	18570.9	18539.3	18627.1	18693.8	18595.5	18651.7	18570.9	18599.0	18511.2
18198.5	10°	18377.7	18303.9	18384.7	18430.4	18433.9	18377.7	18300.4	18226.6	18195.0
17826.2	12.5°	17949.1	17854.3	17991.3	18054.5	18044.0	17935.1	17847.3	17864.8	17763.0
17172.9	15°	17359.0	17362.6	17460.9	17520.6	17464.4	17439.8	17446.9	17404.7	17316.9
16270.1	17.5°	16456.3	16509.0	16768.9	16912.9	16944.6	16895.4	16870.8	16821.6	16733.8
14830.0	20°	14952.9	15269.1	15732.7	16178.8	16266.6	16252.6	16164.8	16143.7	16094.5
13403.9	22.5°	13632.2	13867.6	14405.0	15100.5	15458.7	15493.9	15388.5	15356.9	15304.2
12128.8	25°	12265.8	12518.7	13003.5	13758.7	14499.8	14650.9	14633.3	14538.5	14482.3
10997.8	27.5°	11113.7	11366.6	11805.7	12487.1	13281.0	13765.7	13811.4	13660.3	13656.8
9989.7	30°	10074.0	10421.7	10755.4	11310.4	12079.7	12806.8	12884.0	12778.7	12789.2
9065.9	32.5°	9259.1	9547.1	9831.6	10204.0	10843.3	11689.8	11991.9	11893.5	11854.9
8296.7	35°	8426.6	8623.3	8914.9	9255.6	9691.1	10530.6	11054.0	10980.2	10941.6
7256.9	37.5°	7478.2	7815.4	8026.2	8409.1	8749.8	9417.2	10154.8	10144.3	10063.5
6371.8	40°	6505.2	6860.0	7179.7	7566.0	7829.5	8359.9	9178.3	9174.8	9185.3
5455.0	42.5°	5623.6	5950.3	6336.6	6758.2	7011.1	7397.4	8275.6	8324.8	8384.5
4699.8	45°	4826.2	5121.3	5479.6	5992.4	6298.0	6519.3	7299.1	7523.9	7520.4
4025.4	47.5°	4109.7	4387.2	4689.3	5188.0	5577.9	5778.2	6424.5	6744.1	6723.0
3301.8	50°	3449.3	3695.2	4011.3	4373.1	4896.5	5072.1	5553.3	5974.9	5943.2
2630.9	52.5°	2774.9	3115.6	3382.6	3712.8	4264.2	4436.4	4808.7	5219.7	5195.1
1974.1	55°	2163.7	2493.9	2817.1	3101.6	3565.2	3821.7	4088.6	4510.1	4503.1
1545.5	57.5°	1636.8	1998.6	2304.2	2574.7	2943.5	3259.6	3473.9	3856.8	3906.0
1057.3	60°	1211.8	1489.3	1819.5	2121.6	2413.1	2739.8	2883.8	3259.6	3280.7
723.6	62.5°	825.5	1131.0	1454.2	1728.2	1946.0	2283.2	2413.1	2722.2	2760.9
463.7	65°	572.5	769.2	1138.1	1334.8	1601.7	1889.8	2019.7	2265.6	2342.9
267.0	67.5°	379.4	548.0	888.7	1067.8	1331.3	1528.0	1693.1	1893.3	1977.6
168.6	70°	207.2	403.9	635.8	843.0	1071.3	1261.0	1422.6	1584.2	1657.9
77.3	72.5°	140.5	270.5	442.6	667.4	864.1	1050.3	1194.3	1313.7	1317.2
45.7	75°	70.3	182.7	337.2	516.3	674.4	857.1	987.0	1057.3	973.0
28.1	77.5°	42.2	133.5	274.0	414.5	548.0	692.0	765.7	804.4	667.4
21.1	80°	24.6	94.8	214.3	330.2	379.4	509.3	579.6	590.1	446.1
14.1	82.5°	17.6	70.3	168.6	242.4	231.8	358.3	435.6	421.5	284.5
10.5	85°	10.5	49.2	105.4	151.0	140.5	235.3	252.9	259.9	165.1
7.0	87.5°	7.0	28.1	56.2	80.8	66.7	101.9	101.9	122.9	80.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18981.8
<i>18511.2</i>
18588.4
18363.6
18054.5
17675.2
17229.1
16695.2
15982.1
15290.1
14422.5
13649.8
12736.5
11858.4
10888.9
10130.2
9185.3
8352.9
7527.4
6730.1
5971.3
5247.8
4520.7
3884.9
3312.3
2767.9
2325.3
1967.0
1629.8
1285.6
909.8
642.8
418.0
263.4
151.0
70.3
0.0

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