

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: P637952

Luminaire Tested: **IFLD-L-SA8B-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637952
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35103.5 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

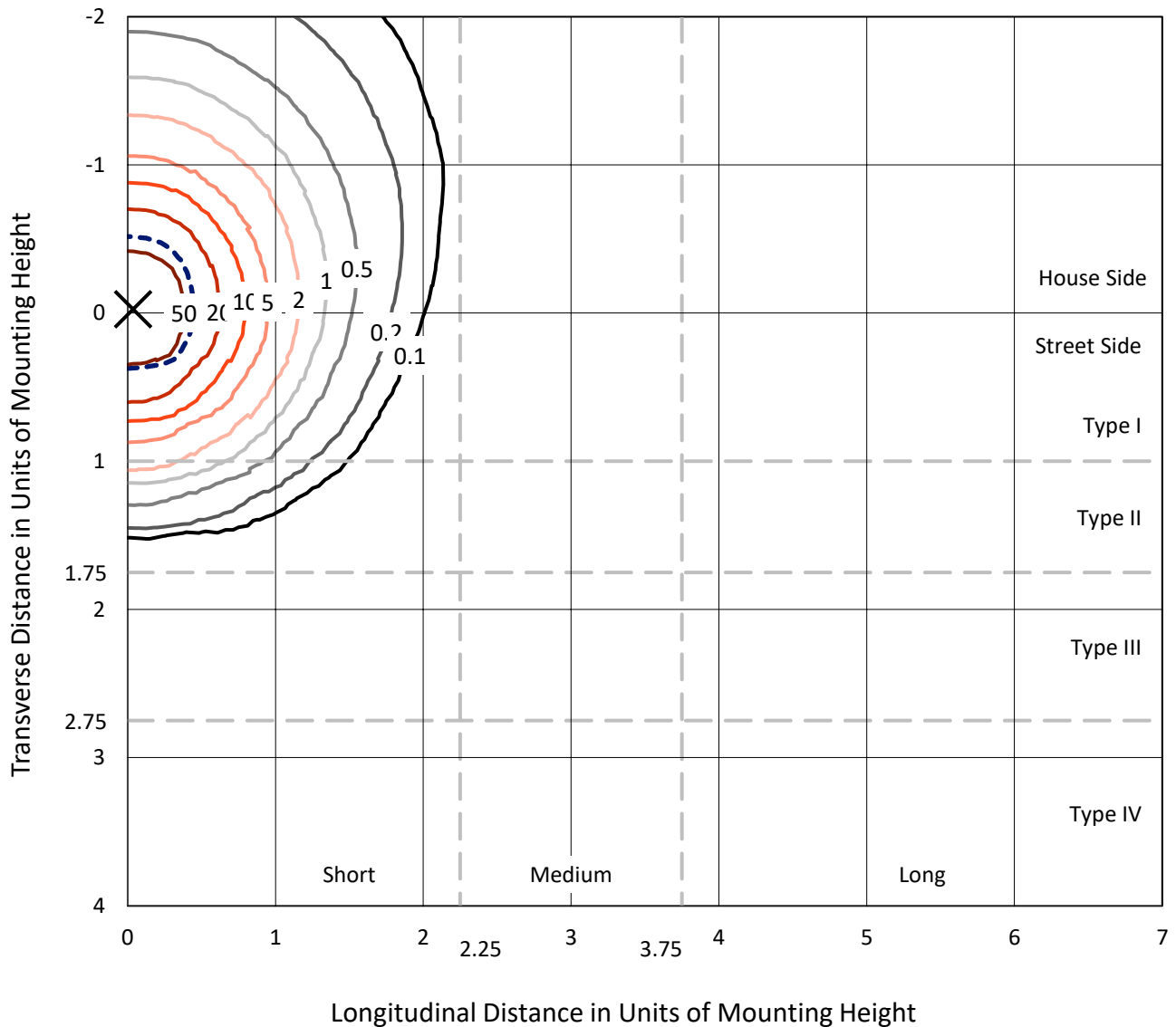
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

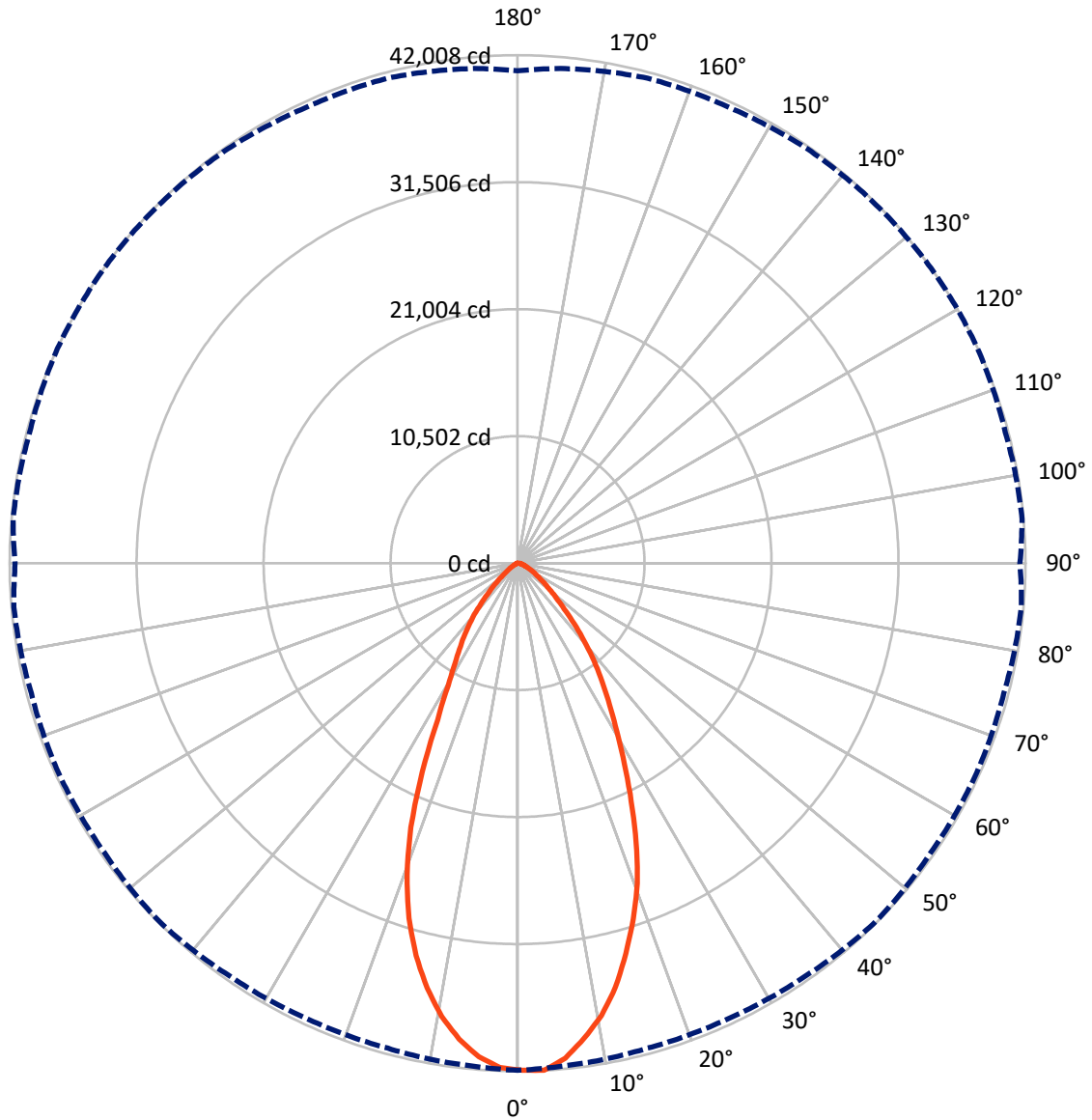
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 104.9 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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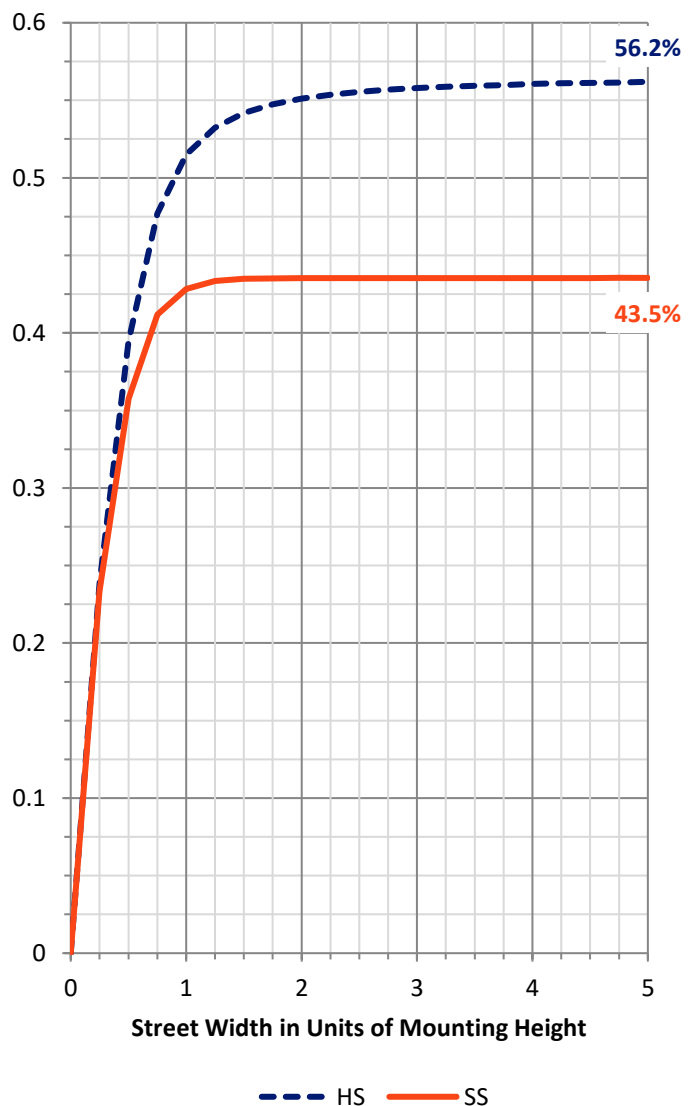
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19919.1	0.0	19919.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	15184.4	0.0	15184.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	35103.5	0.0	35103.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3808.3	10.8
10°-20°	9078.2	25.9
20°-30°	9246.0	26.3
30°-40°	6894.7	19.6
40°-50°	3602.0	10.3
50°-60°	1515.0	4.3
60°-70°	618.7	1.8
70°-80°	260.4	0.7
80°-90°	80.2	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°	35103.5	100.0
0°-180°	35103.5	100.0



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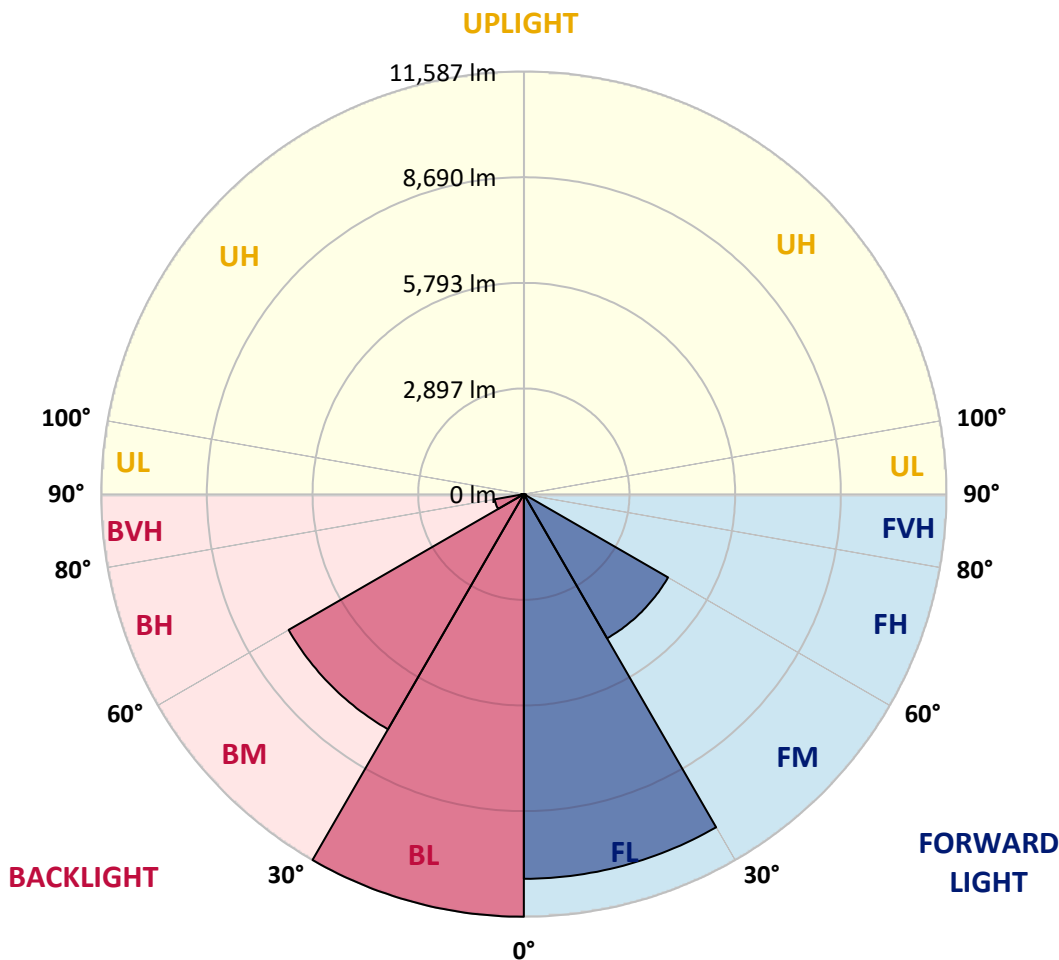
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10545.5	30.0			
FM (30°-60°)	4565.3	13.0			
FH (60°-80°)	66.0	0.2			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	11587.0	33.0	B5		
BM (30°-60°)	7446.3	21.2	B4/8500		
BH (60°-80°)	813.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	72.8	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°	41940.2	41940.2	41940.2	41940.2	41940.2	41940.2	41940.2	41940.2	41940.2	41940.2
2.5°	41944.7	41773.3	41529.8	41507.3	41633.6	41908.6	41732.8	41741.8	41633.6	41818.4
5°	41286.4	41124.0	40957.2	40736.2	40921.1	41038.3	40948.2	40849.0	40709.2	40889.5
7.5°	40041.8	39951.6	39703.6	39604.4	39717.1	39847.9	39654.0	39627.0	39433.1	39667.5
10°	38138.9	38102.8	37859.4	37800.7	37899.9	38098.3	38012.7	37994.6	37872.9	37850.3
12.5°	36163.9	36024.1	35722.0	35703.9	35852.8	36150.4	35920.4	35699.4	35767.1	35825.7
15°	31077.5	30928.7	31677.2	32854.1	33471.9	33449.3	33517.0	33250.9	33169.8	33196.8
17.5°	24706.0	24453.5	24724.0	26545.7	29481.2	31185.7	30716.8	30144.1	29837.5	29634.5
20°	21324.1	21337.6	21288.0	21757.0	23587.7	27474.6	27361.9	26257.1	25855.8	25689.0
22.5°	19267.9	19191.2	19083.0	19231.8	19723.3	22005.0	23533.6	22519.0	22379.2	22194.3
25°	17252.2	17252.2	17121.5	17270.3	17410.1	17441.6	18974.8	19389.6	19119.1	19119.1
27.5°	15507.2	15417.0	15358.4	15426.0	15241.1	14352.8	14546.7	16670.6	16485.7	16373.0
30°	13775.6	13748.6	13649.4	13739.6	13054.2	12053.1	11647.3	14068.7	14262.6	14222.1
32.5°	11372.2	11480.5	11922.4	12062.1	10889.7	10082.6	9694.8	11678.9	12454.4	12422.9
35°	7728.8	7819.0	8324.0	9992.4	9027.4	8450.3	8337.5	9289.0	10565.1	10686.8
37.5°	6155.1	6141.5	6285.8	6583.5	7255.3	7115.5	7084.0	7332.0	8617.1	8671.2
40°	5072.9	5054.8	5050.3	4806.8	4640.0	5916.1	5830.4	5681.6	6795.4	6903.6
42.5°	4089.9	4107.9	4121.4	3589.3	3345.8	4563.3	4513.7	4360.4	5329.9	5456.1
45°	3210.6	3206.1	3233.1	2674.0	2606.3	2917.5	3372.9	3251.1	4022.2	4157.5
47.5°	1663.9	1722.5	2087.8	2069.7	2101.3	2069.7	2552.2	2520.6	3025.7	3242.1
50°	1118.3	1136.3	1167.9	1172.4	1654.9	1524.1	1731.5	1961.5	2119.3	2453.0
52.5°	865.8	879.3	798.1	748.5	1014.6	1127.3	1136.3	1357.3	1479.0	1817.2
55°	482.5	541.1	581.7	586.2	559.1	834.2	829.7	1005.6	1100.2	1325.7
57.5°	63.1	76.7	117.2	378.8	374.3	464.4	581.7	730.5	784.6	969.5
60°	4.5	9.0	13.5	58.6	248.0	270.6	396.8	455.4	545.6	680.9
62.5°	0.0	0.0	4.5	13.5	49.6	157.8	207.4	239.0	320.2	446.4
65°	0.0	0.0	4.5	9.0	18.0	58.6	81.2	130.8	189.4	275.1
67.5°	0.0	0.0	4.5	9.0	13.5	22.5	36.1	58.6	99.2	166.8
70°	0.0	0.0	4.5	9.0	13.5	18.0	27.1	36.1	54.1	90.2
72.5°	0.0	0.0	4.5	4.5	9.0	22.5	22.5	27.1	36.1	49.6
75°	0.0	0.0	4.5	9.0	13.5	22.5	22.5	22.5	27.1	31.6
77.5°	0.0	0.0	4.5	9.0	13.5	22.5	18.0	22.5	22.5	22.5
80°	0.0	0.0	4.5	9.0	13.5	22.5	27.1	22.5	18.0	18.0
82.5°	0.0	0.0	4.5	13.5	13.5	31.6	31.6	31.6	13.5	13.5
85°	0.0	0.0	9.0	13.5	22.5	36.1	36.1	27.1	13.5	9.0
87.5°	0.0	0.0	4.5	9.0	9.0	18.0	27.1	22.5	9.0	4.5
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°
41940.2	0°	41940.2	41940.2	41940.2	41940.2	41940.2	41940.2	41940.2	41940.2	41940.2
41547.9	2.5°	41881.6	41768.8	41980.8	42007.8	41917.6	41804.9	41543.4	41520.8	41065.4
40628.0	5°	41087.9	40903.1	41038.3	41128.5	41097.0	40975.2	40867.0	40767.8	40357.5
39135.5	7.5°	39608.9	39541.3	39604.4	39672.1	39802.8	39672.1	39627.0	39523.2	39117.4
37665.5	10°	37967.6	37841.3	38080.3	38048.7	38012.7	37976.6	37787.2	37805.2	37327.3
35663.4	12.5°	35952.0	35740.0	35970.0	35997.0	35970.0	35843.7	35631.8	35722.0	35284.6
32957.8	15°	33241.9	33219.4	33386.2	33494.4	33571.1	33435.8	33363.7	33408.8	33147.2
29476.7	17.5°	29914.1	30207.2	30752.8	30937.7	30942.2	31082.0	31041.4	30987.3	30793.4
25621.3	20°	26000.1	26563.8	27402.5	28263.7	28511.8	28394.5	28340.4	28439.6	28151.0
22000.4	22.5°	22388.2	22870.7	23844.7	25102.8	25828.8	25900.9	25887.4	25801.7	25689.0
19101.0	25°	19322.0	19750.4	20683.8	21833.6	23227.0	23434.4	23443.4	23416.3	23317.1
16472.2	27.5°	16733.7	17252.2	17766.3	18794.4	20277.9	21134.7	21026.5	20994.9	20958.8
14253.6	30°	14388.9	15042.7	15525.2	16165.5	17495.7	18654.6	18767.3	18713.2	18627.6
12418.4	32.5°	12531.1	12918.9	13532.1	13965.0	14921.0	16233.2	16666.1	16625.5	16548.8
10763.5	35°	10916.8	11070.1	11552.6	12035.1	12670.9	13942.5	14582.8	14492.6	14479.1
8770.4	37.5°	8991.4	9505.4	9771.5	10258.5	10704.9	11692.4	12576.2	12535.6	12540.1
7052.4	40°	7259.8	7557.4	8085.0	8495.4	8905.7	9627.2	10610.2	10637.2	10628.2
5460.7	42.5°	5573.4	5862.0	6416.6	6863.0	7228.3	7674.7	8612.6	8644.2	8684.7
4252.2	45°	4351.4	4536.3	4942.1	5406.5	5794.3	6064.9	6777.3	6980.3	6984.8
3296.2	47.5°	3377.4	3589.3	3877.9	4324.3	4703.1	4897.0	5415.6	5690.6	5677.1
2529.7	50°	2651.4	2845.3	3079.8	3431.5	3841.8	3995.2	4378.4	4649.0	4635.5
1907.4	52.5°	2029.1	2277.2	2484.6	2755.1	3156.4	3287.2	3562.3	3873.4	3828.3
1397.9	55°	1537.6	1790.2	1984.1	2209.5	2574.8	2741.6	2931.0	3179.0	3188.0
1082.2	57.5°	1158.9	1420.4	1596.3	1826.2	2101.3	2286.2	2430.5	2696.5	2692.0
739.5	60°	829.7	1055.2	1267.1	1506.1	1718.0	1929.9	2029.1	2281.7	2290.7
523.1	62.5°	599.7	811.7	1014.6	1222.0	1411.4	1618.8	1709.0	1907.4	1934.5
342.7	65°	419.4	568.2	802.6	960.5	1172.4	1325.7	1442.9	1614.3	1645.9
202.9	67.5°	270.6	410.3	635.8	775.6	969.5	1100.2	1222.0	1357.3	1397.9
130.8	70°	162.3	311.1	473.5	622.3	798.1	915.4	1032.6	1149.8	1172.4
63.1	72.5°	103.7	216.4	342.7	505.0	640.3	766.6	870.3	956.0	888.3
40.6	75°	58.6	148.8	270.6	396.8	518.6	640.3	726.0	771.1	617.8
27.1	77.5°	36.1	108.2	221.0	320.2	401.3	514.1	568.2	595.2	441.9
18.0	80°	22.5	81.2	184.9	261.5	261.5	378.8	441.9	464.4	320.2
13.5	82.5°	18.0	58.6	144.3	198.4	175.9	284.1	347.2	351.7	225.5
9.0	85°	13.5	45.1	90.2	130.8	121.7	198.4	202.9	225.5	148.8
9.0	87.5°	9.0	27.1	54.1	76.7	67.6	94.7	108.2	121.7	81.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
41940.2
40709.2
40028.3
39031.7
37164.9
35158.3
32831.6
30504.8
27943.6
25472.5
22983.5
20746.9
18519.3
16345.9
14330.3
12395.8
10470.4
8549.5
6867.5
5627.5
4635.5
3832.8
3188.0
2683.0
2268.1
1925.4
1636.8
1393.3
1154.4
825.2
586.2
414.8
297.6
207.4
135.3
72.1
0.0

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