

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: P636665

Luminaire Tested: **IFLD-M-SA4A-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636665
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10625.1 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

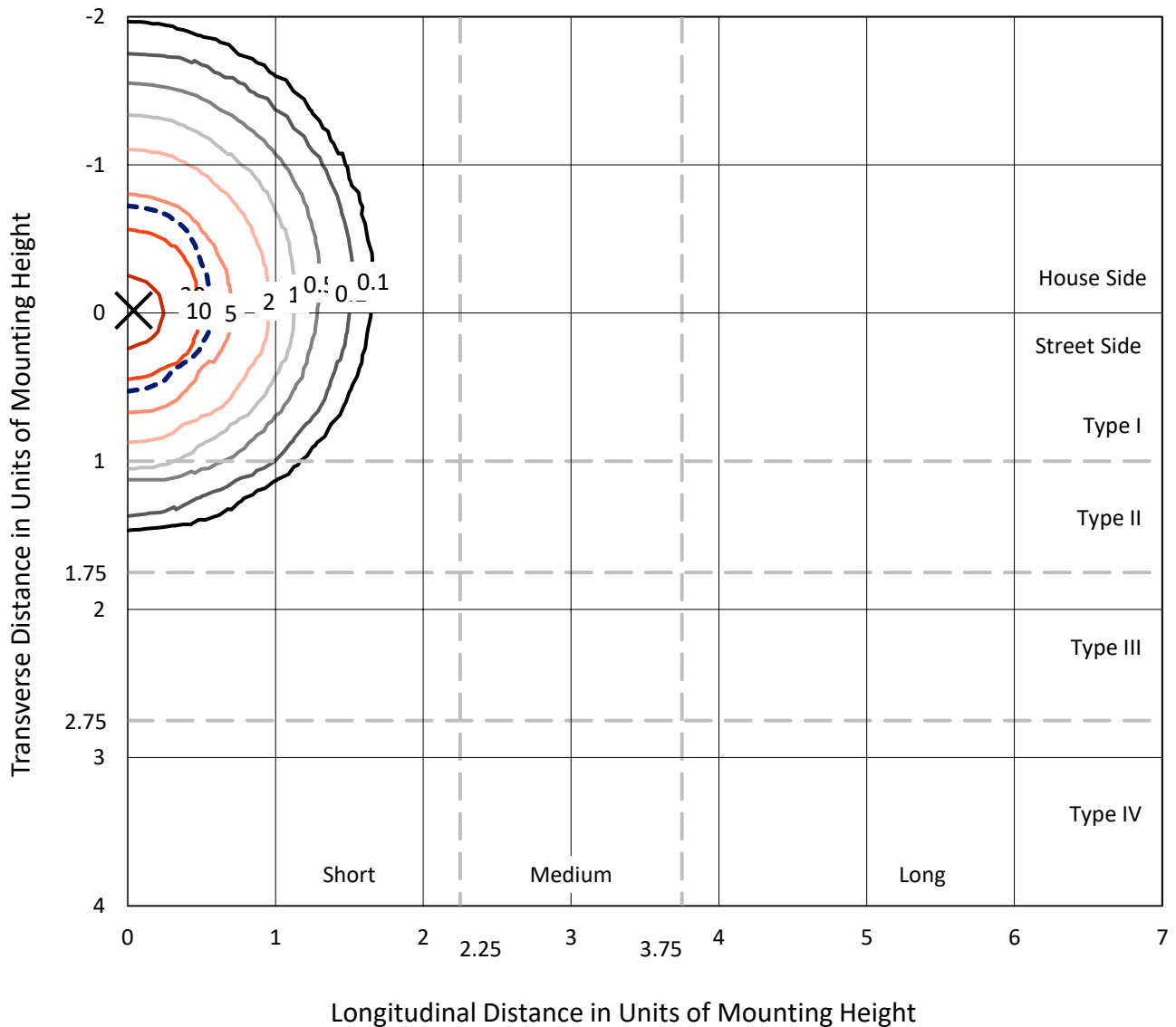
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

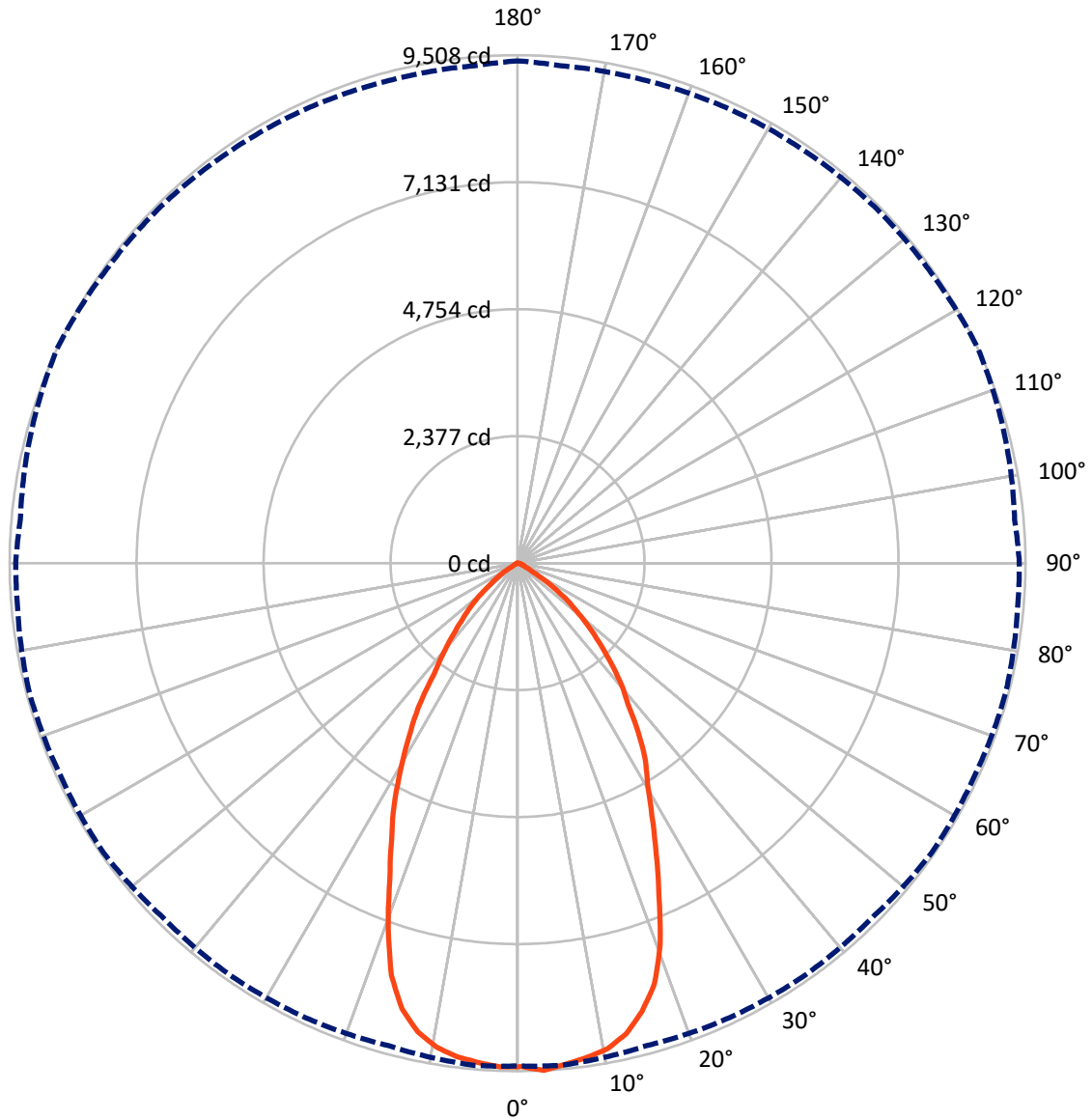
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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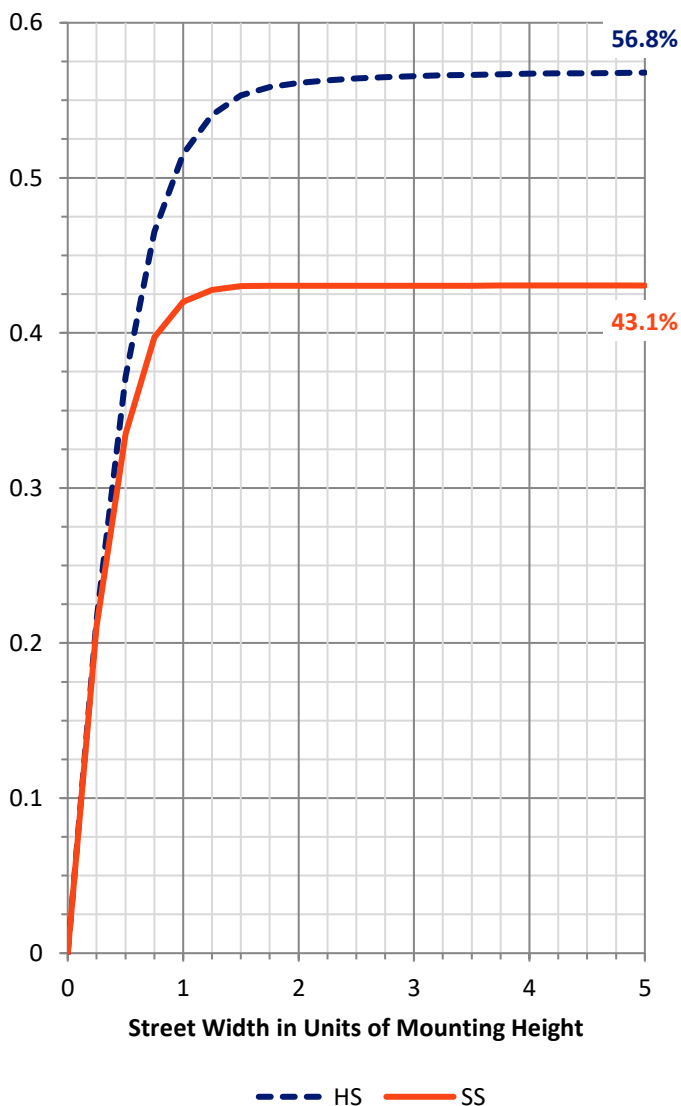
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6080.6	0.0	6080.6
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	4544.5	0.0	4544.5
	% Fixture	42.8	0.0	42.8
Total	Lumens	10625.1	0.0	10625.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	887.9	8.4
10°-20°	2354.3	22.2
20°-30°	2692.8	25.3
30°-40°	2307.7	21.7
40°-50°	1525.9	14.4
50°-60°	665.8	6.3
60°-70°	130.8	1.2
70°-80°	47.2	0.4
80°-90°	12.6	0.1
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°	10625.1	100.0
0°-180°	10625.1	100.0



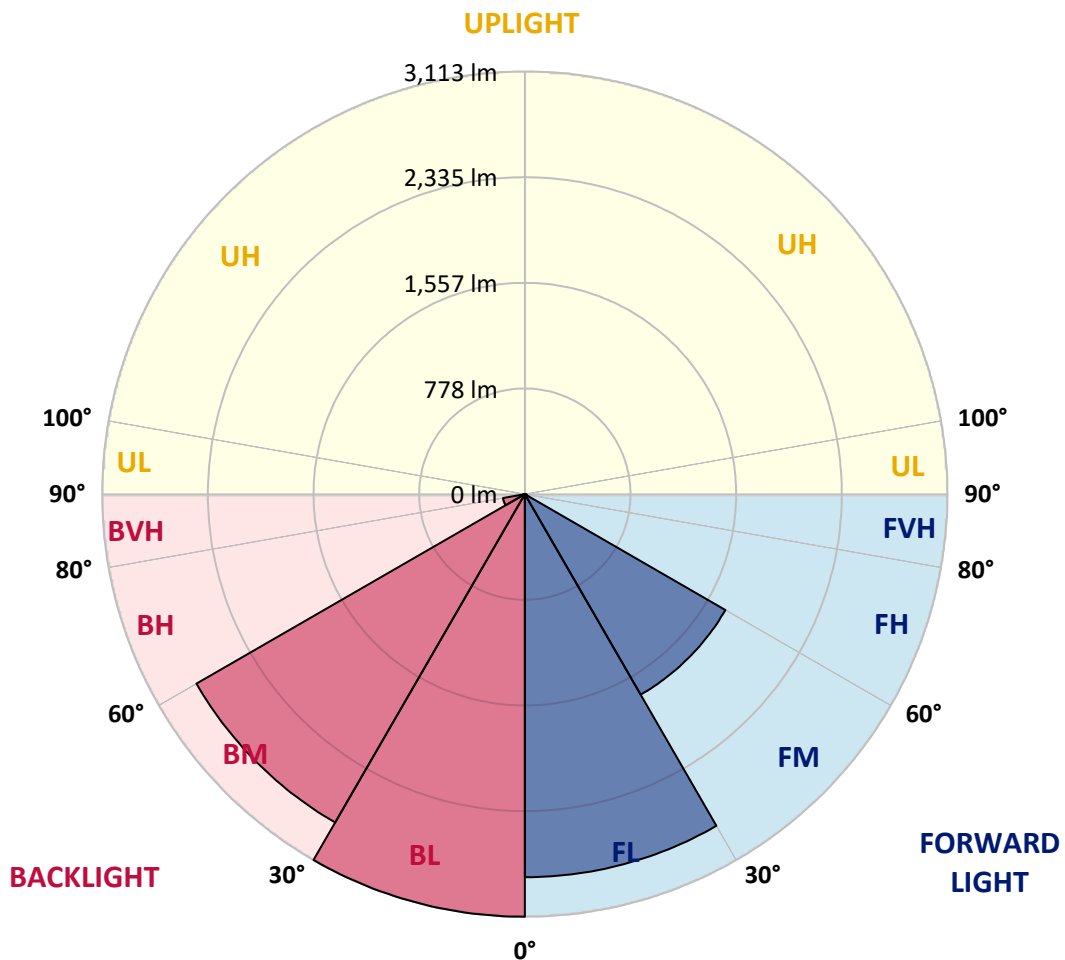
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2821.8	26.6			
FM (30°-60°)	1706.2	16.1			
FH (60°-80°)	14.5	0.1			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	3113.2	29.3	B4/5000		
BM (30°-60°)	2793.3	26.3	B3/5000		
BH (60°-80°)	163.6	1.5	B1/500		G1/500
BVH (80°-90°)	10.5	0.1			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°	9427.1	9427.1	9427.1	9427.1	9427.1	9427.1	9427.1	9427.1	9427.1	9427.1
2.5°	9413.5	9436.1	9350.3	9388.7	9404.5	9384.2	9458.7	9436.1	9454.2	9397.7
5°	9413.5	9436.1	9336.7	9354.8	9359.3	9320.9	9402.2	9375.1	9377.4	9318.7
7.5°	9354.8	9381.9	9291.6	9305.1	9307.4	9275.8	9345.8	9307.4	9293.8	9232.9
10°	9196.7	9212.5	9131.2	9165.1	9196.7	9167.4	9228.3	9185.4	9185.4	9131.2
12.5°	8946.0	8975.4	8885.0	8925.7	8952.8	8918.9	8988.9	8973.1	8975.4	8921.2
15°	8489.8	8388.2	8496.6	8577.9	8580.1	8573.4	8638.9	8623.1	8634.3	8553.0
17.5°	6271.9	6247.1	6373.6	7333.4	8047.1	8144.2	8155.5	8069.7	8031.3	7952.3
20°	5811.2	5829.3	5802.2	5806.7	6369.0	7536.7	7466.7	7254.4	7157.3	7078.2
22.5°	5474.7	5445.3	5427.2	5415.9	5431.8	6192.9	6696.5	6375.8	6323.9	6285.5
25°	5108.8	5095.2	5072.7	5068.1	5059.1	4930.4	5655.4	5684.7	5601.1	5553.7
27.5°	4767.7	4758.7	4733.9	4731.6	4627.7	4316.0	4395.1	5093.0	5070.4	5052.3
30°	4404.1	4386.1	4372.5	4372.5	4058.6	3737.9	3609.1	4440.3	4440.3	4424.5
32.5°	4008.9	3993.1	3997.6	3943.4	3568.5	3274.9	3071.6	3832.7	4069.9	4056.3
35°	2450.5	2446.0	2904.5	3507.5	3067.1	2800.6	2787.0	3279.4	3624.9	3661.1
37.5°	2181.7	2168.2	2175.0	2213.4	2626.7	2520.5	2516.0	2599.6	3085.1	3103.2
40°	1958.1	1949.1	1942.3	1804.6	1673.6	2249.5	2233.7	2179.5	2635.7	2667.3
42.5°	1745.8	1736.8	1736.8	1542.6	1330.3	1849.7	1856.5	1793.3	2222.4	2233.7
45°	1526.8	1520.0	1481.6	1230.9	1169.9	1228.6	1538.1	1465.8	1763.9	1881.4
47.5°	720.5	716.0	1036.7	1023.1	1018.6	982.5	1174.4	1215.1	1400.3	1517.7
50°	578.2	573.7	546.6	481.1	837.9	745.3	846.9	935.0	993.8	1102.2
52.5°	478.8	474.3	417.8	370.4	465.3	544.3	505.9	625.6	623.4	740.8
55°	313.9	291.3	320.7	302.6	243.9	395.2	386.2	474.3	463.0	564.6
57.5°	6.8	6.8	15.8	171.6	153.6	167.1	221.3	271.0	304.9	334.3
60°	2.3	2.3	4.5	9.0	63.2	70.0	85.8	99.4	140.0	173.9
62.5°	0.0	0.0	2.3	4.5	9.0	36.1	40.7	47.4	65.5	90.3
65°	0.0	0.0	0.0	2.3	4.5	9.0	13.6	29.4	40.7	51.9
67.5°	0.0	0.0	0.0	2.3	2.3	4.5	9.0	13.6	18.1	36.1
70°	0.0	0.0	0.0	2.3	2.3	4.5	6.8	9.0	13.6	18.1
72.5°	0.0	0.0	0.0	2.3	2.3	6.8	4.5	6.8	9.0	11.3
75°	0.0	0.0	0.0	2.3	2.3	2.3	4.5	6.8	6.8	9.0
77.5°	0.0	0.0	0.0	2.3	4.5	4.5	4.5	4.5	4.5	6.8
80°	0.0	0.0	0.0	2.3	2.3	4.5	6.8	9.0	4.5	4.5
82.5°	0.0	0.0	0.0	4.5	2.3	9.0	13.6	11.3	4.5	2.3
85°	0.0	0.0	0.0	2.3	9.0	11.3	11.3	6.8	2.3	2.3
87.5°	0.0	0.0	0.0	2.3	2.3	4.5	6.8	6.8	2.3	2.3
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°
9427.1	0°	9427.1	9427.1	9427.1	9427.1	9427.1	9427.1	9427.1	9427.1	9427.1
9393.2	2.5°	9341.3	9429.3	9508.4	9458.7	9440.6	9404.5	9377.4	9348.0	9345.8
9311.9	5°	9260.0	9343.5	9420.3	9361.6	9366.1	9348.0	9330.0	9323.2	9327.7
9228.3	7.5°	9189.9	9260.0	9343.5	9293.8	9307.4	9296.1	9287.1	9273.5	9293.8
9119.9	10°	9083.8	9147.0	9244.1	9196.7	9189.9	9178.7	9169.6	9144.8	9156.1
8923.4	12.5°	8851.2	8930.2	9040.9	8986.7	9004.7	8973.1	8959.6	8943.8	8946.0
8582.4	15°	8535.0	8596.0	8708.9	8666.0	8679.5	8659.2	8659.2	8659.2	8675.0
7963.6	17.5°	7983.9	8108.1	8286.5	8232.3	8252.7	8257.2	8252.7	8268.5	8288.8
7082.7	20°	7087.3	7299.6	7624.8	7730.9	7773.8	7776.1	7744.5	7782.9	7823.5
6258.4	22.5°	6262.9	6486.5	6773.3	7064.7	7245.4	7236.3	7240.8	7265.7	7308.6
5524.4	25°	5549.2	5763.8	6023.5	6283.2	6678.5	6759.8	6762.0	6784.6	6818.5
5023.0	27.5°	5034.3	5117.8	5355.0	5617.0	6041.6	6301.3	6287.7	6308.1	6344.2
4395.1	30°	4413.2	4733.9	4788.1	4948.4	5314.3	5790.9	5793.1	5815.7	5851.8
4024.7	32.5°	4013.4	4225.7	4392.8	4397.4	4709.0	5199.1	5296.2	5318.8	5343.7
3640.7	35°	3638.5	3663.3	3889.2	3952.4	4133.1	4618.7	4790.3	4803.9	4844.5
3096.4	37.5°	3148.4	3295.2	3358.4	3584.3	3593.3	3986.3	4327.3	4313.8	4345.4
2665.1	40°	2698.9	2839.0	2999.3	3164.2	3186.8	3480.4	3857.6	3871.1	3884.7
2211.1	42.5°	2229.2	2407.6	2572.5	2683.1	2836.7	3006.1	3365.2	3428.4	3460.1
1894.9	45°	1928.8	1978.5	2175.0	2337.6	2493.4	2572.5	2909.0	3024.2	3044.5
1499.7	47.5°	1520.0	1687.1	1820.4	1958.1	2152.4	2222.4	2466.3	2626.7	2642.5
1113.5	50°	1174.4	1294.1	1477.1	1601.3	1827.1	1865.5	2032.7	2240.5	2260.8
745.3	52.5°	840.2	1002.8	1181.2	1300.9	1517.7	1567.4	1691.6	1890.4	1903.9
571.4	55°	603.0	709.2	856.0	1027.6	1185.7	1296.4	1382.2	1571.9	1590.0
374.9	57.5°	411.1	510.4	571.4	743.1	837.9	957.6	1027.6	1172.2	1185.7
178.4	60°	196.5	243.9	291.3	377.2	438.2	539.8	585.0	643.7	659.5
108.4	62.5°	126.5	149.1	189.7	225.9	284.6	347.8	365.9	415.6	433.6
67.8	65°	83.6	106.2	149.1	158.1	216.8	266.5	289.1	325.2	345.6
40.7	67.5°	47.4	74.5	110.7	131.0	171.6	219.1	243.9	275.5	293.6
27.1	70°	31.6	61.0	88.1	108.4	135.5	176.2	207.8	234.9	246.2
13.6	72.5°	18.1	38.4	61.0	85.8	108.4	146.8	176.2	198.8	131.0
9.0	75°	11.3	29.4	51.9	72.3	90.3	117.4	142.3	140.0	58.7
6.8	77.5°	9.0	22.6	45.2	61.0	74.5	81.3	101.6	115.2	45.2
4.5	80°	6.8	18.1	40.7	51.9	29.4	58.7	79.0	85.8	31.6
4.5	82.5°	4.5	11.3	33.9	36.1	20.3	42.9	63.2	56.5	22.6
2.3	85°	2.3	6.8	11.3	20.3	18.1	20.3	15.8	22.6	15.8
2.3	87.5°	2.3	4.5	9.0	9.0	9.0	6.8	9.0	9.0	9.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9427.1
9400.0
9384.2
9350.3
9210.3
9011.5
8681.8
8356.5
7850.6
7315.4
6877.2
6378.1
5915.1
5400.1
4887.5
4383.8
3927.6
3505.2
3094.2
2680.9
2290.1
1928.8
1605.8
1212.8
677.6
438.2
345.6
291.3
243.9
106.2
58.7
45.2
33.9
22.6
15.8
9.0
0.0

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