

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: P638111

Luminaire Tested: **IFLD-S-SA6B-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638111
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23379.8 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 244.9
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



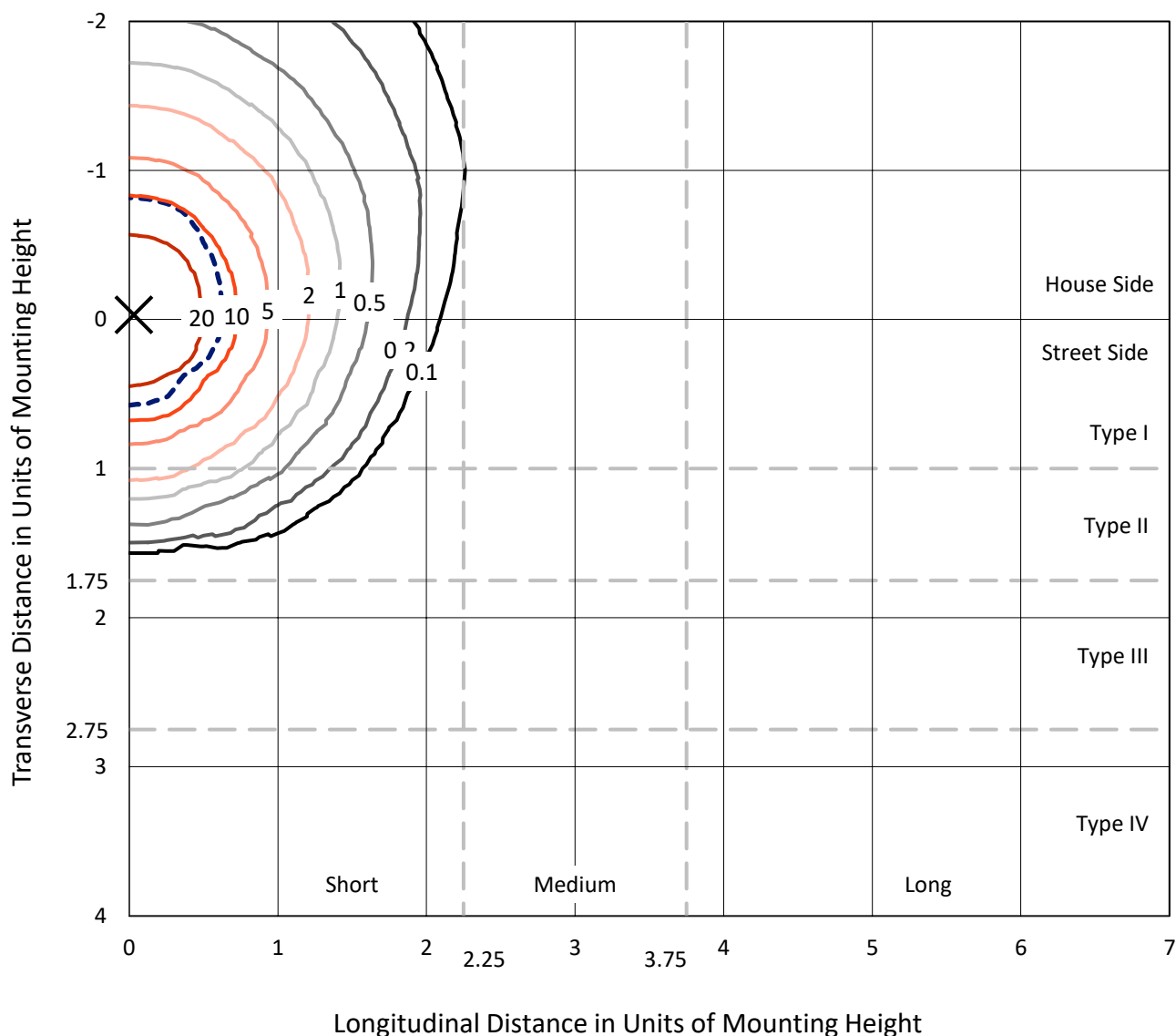
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



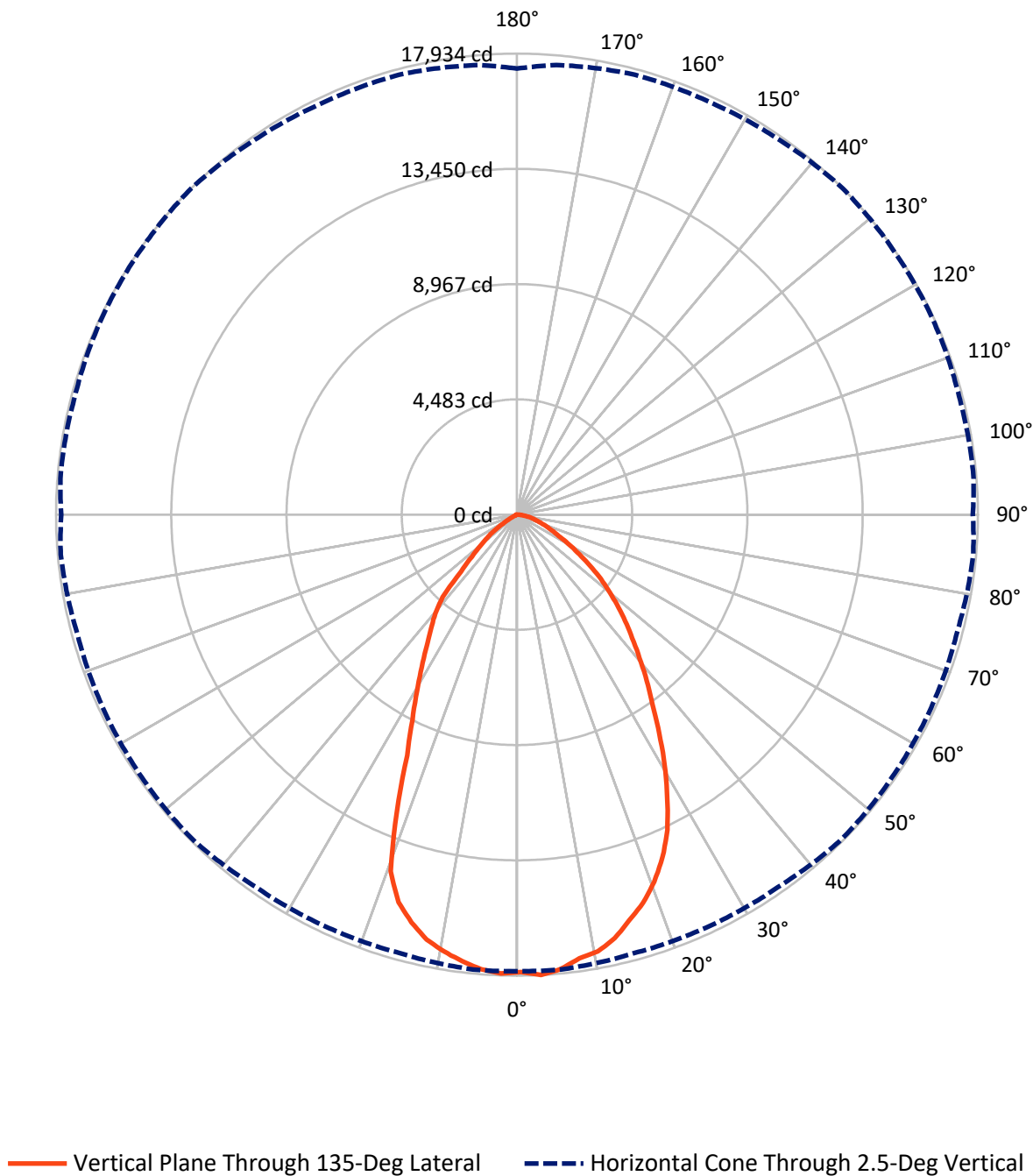
Based on 20 foot mounting height. Maximum calculated value = 44.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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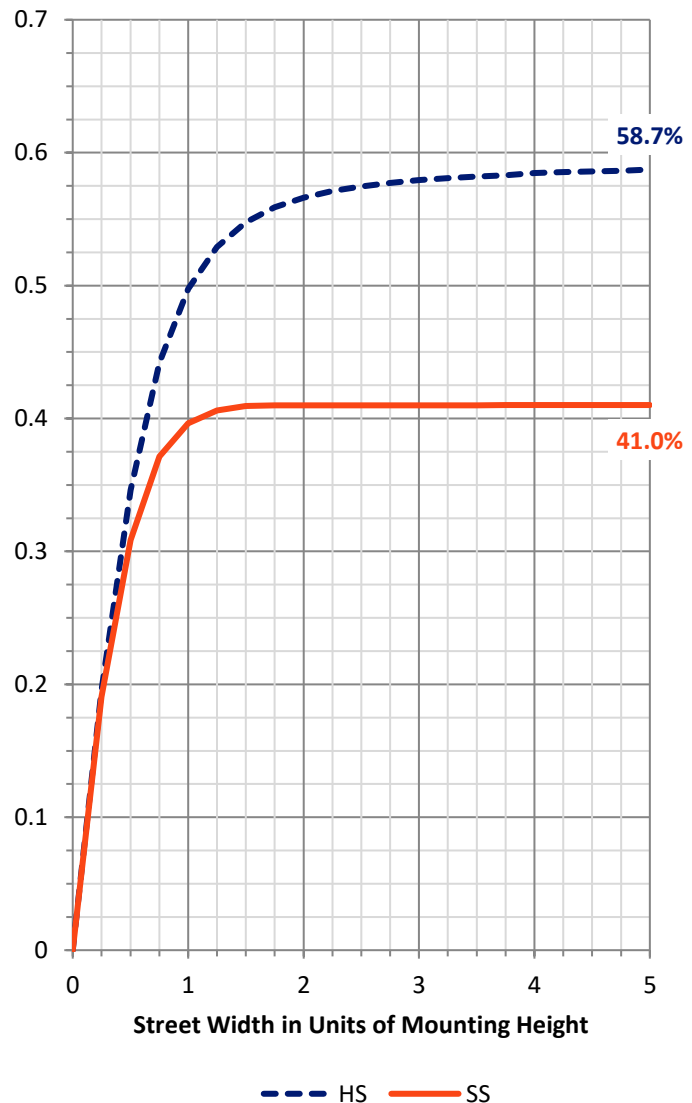
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13846.7	0.0	13846.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	9533.1	0.0	9533.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	23379.8	0.0	23379.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1668.6	7.1
10°-20°	4474.5	19.1
20°-30°	5456.8	23.3
30°-40°	4982.0	21.3
40°-50°	3600.4	15.4
50°-60°	1965.9	8.4
60°-70°	812.8	3.5
70°-80°	329.2	1.4
80°-90°	89.5	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°	23379.8	100.0
0°-180°	23379.8	100.0

Coefficient of Utilization



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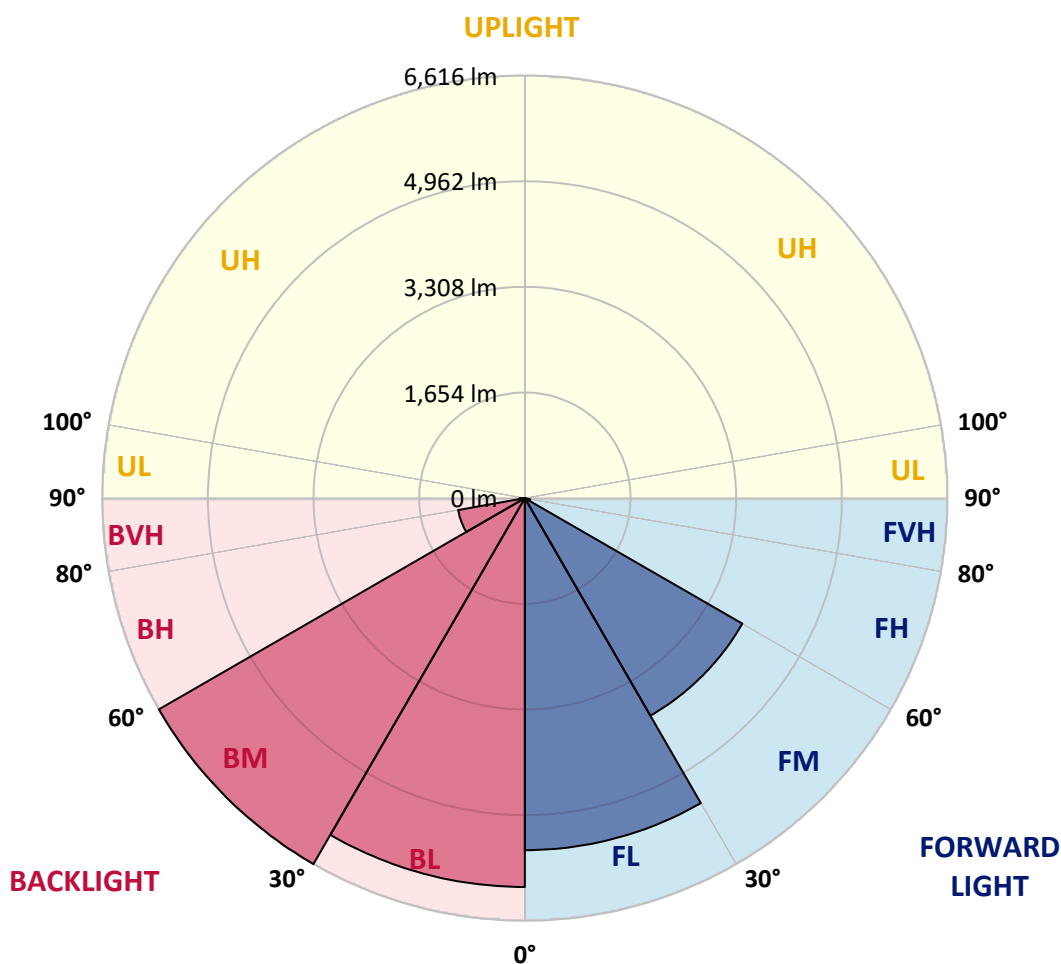
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5511.5	23.6			
FM	(30°-60°)	3932.0	16.8			
FH	(60°-80°)	82.4	0.4			G0/660
FVH	(80°-90°)	7.2	0.0			G0/10
BL	(0°-30°)	6088.4	26.0	B5		
BM	(30°-60°)	6616.3	28.3	B4/8500		
BH	(60°-80°)	1059.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	82.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17791.9	17791.9	17791.9	17791.9	17791.9	17791.9	17791.9	17791.9	17791.9	17791.9
2.5°	17759.0	17782.1	17656.9	17670.1	17693.2	17861.1	17818.3	17778.8	17722.8	17818.3
5°	17736.0	17749.1	17617.4	17571.3	17591.1	17742.5	17604.3	17604.3	17591.1	17574.6
7.5°	17558.2	17564.8	17462.7	17380.4	17433.1	17502.2	17400.1	17449.5	17377.1	17433.1
10°	17291.5	17248.7	17126.9	17103.8	17163.1	17228.9	17159.8	17205.9	17140.0	17182.8
12.5°	16899.7	16833.9	16735.1	16705.4	16807.5	16896.4	16840.4	16814.1	16728.5	16833.9
15°	15388.5	15339.1	15563.0	15954.8	16307.1	16382.8	16323.5	16349.9	16172.1	16201.7
17.5°	12665.7	12573.5	12813.9	13742.3	15065.9	15763.8	15711.2	15540.0	15276.6	15335.8
20°	11510.1	11483.8	11457.4	11678.0	12603.2	14720.2	14792.6	14358.0	13982.7	13900.4
22.5°	10858.2	10848.3	10822.0	10871.4	11115.0	12474.8	13304.4	12902.8	12652.6	12629.5
25°	10262.3	10245.8	10166.8	10229.4	10229.4	10308.4	11371.8	11615.5	11394.9	11368.5
27.5°	9656.5	9626.9	9613.7	9643.3	9491.9	8958.5	9228.5	10417.0	10301.8	10308.4
30°	9001.3	8991.4	8955.2	9017.8	8550.3	7888.5	7717.3	9330.6	9353.6	9347.0
32.5°	8026.8	8069.6	8234.2	8303.3	7532.9	6986.4	6700.0	8072.9	8543.7	8533.8
35°	5830.8	5830.8	6367.4	7365.0	6601.2	6189.6	6034.9	6844.8	7743.6	7776.6
37.5°	4793.7	4810.1	4915.5	5369.8	5695.8	5550.9	5504.8	5761.6	6716.4	6769.1
40°	4313.0	4313.0	4313.0	4125.3	4115.5	5001.1	4974.8	4892.5	5801.1	5916.4
42.5°	3875.1	3885.0	3891.6	3417.5	3154.1	4322.9	4263.6	4138.5	4981.3	5116.3
45°	3424.1	3440.5	3460.3	2857.8	2742.5	3111.3	3608.4	3470.2	4171.4	4345.9
47.5°	2090.7	2117.0	2564.8	2423.2	2436.3	2400.1	2943.4	2920.3	3420.8	3667.7
50°	1412.4	1422.3	1465.1	1537.5	2090.7	1886.5	2084.1	2416.6	2597.7	2973.0
52.5°	1185.3	1201.7	1096.4	997.6	1372.9	1475.0	1455.2	1794.3	1866.8	2331.0
55°	833.0	885.6	836.3	826.4	780.3	1145.7	1102.9	1379.5	1425.6	1771.3
57.5°	85.6	98.8	171.2	615.7	510.3	648.6	786.9	1010.8	1056.8	1307.1
60°	6.6	6.6	16.5	85.6	372.0	388.5	543.2	622.3	711.2	912.0
62.5°	0.0	3.3	6.6	13.2	59.3	207.4	273.3	325.9	428.0	589.3
65°	0.0	0.0	3.3	9.9	13.2	79.0	105.4	171.2	233.8	365.5
67.5°	0.0	0.0	3.3	6.6	9.9	19.8	36.2	62.6	125.1	207.4
70°	0.0	0.0	3.3	6.6	9.9	16.5	26.3	39.5	56.0	111.9
72.5°	0.0	0.0	3.3	3.3	6.6	16.5	19.8	26.3	39.5	56.0
75°	0.0	0.0	3.3	3.3	9.9	19.8	16.5	19.8	26.3	36.2
77.5°	0.0	0.0	3.3	6.6	9.9	19.8	16.5	19.8	19.8	23.0
80°	0.0	0.0	3.3	6.6	13.2	23.0	19.8	19.8	16.5	16.5
82.5°	0.0	0.0	3.3	9.9	13.2	29.6	29.6	26.3	13.2	9.9
85°	0.0	0.0	6.6	13.2	19.8	32.9	32.9	26.3	9.9	6.6
87.5°	0.0	0.0	6.6	9.9	16.5	23.0	32.9	26.3	9.9	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°
17791.9	0°	17791.9	17791.9	17791.9	17791.9	17791.9	17791.9	17791.9	17791.9	17791.9
17736.0	2.5°	17824.9	17805.1	17870.9	17897.3	17933.5	17795.2	17709.6	17712.9	17554.9
17535.1	5°	17640.5	17643.8	17729.4	17722.8	17759.0	17683.3	17650.4	17594.4	17456.1
17281.6	7.5°	17406.7	17377.1	17459.4	17522.0	17429.8	17482.4	17406.7	17433.1	17350.8
17057.7	10°	17225.6	17156.5	17232.2	17275.0	17278.3	17225.6	17153.2	17084.1	17054.4
16708.7	12.5°	16824.0	16735.1	16863.5	16922.7	16912.9	16810.8	16728.5	16745.0	16649.5
16096.4	15°	16270.9	16274.2	16366.3	16422.3	16369.6	16346.6	16353.2	16313.7	16231.3
15250.2	17.5°	15424.7	15474.1	15717.7	15852.7	15882.4	15836.3	15813.2	15767.1	15684.8
13900.4	20°	14015.6	14311.9	14746.5	15164.6	15246.9	15233.8	15151.5	15131.7	15085.6
12563.7	22.5°	12777.7	12998.2	13502.0	14153.9	14489.7	14522.6	14423.8	14394.2	14344.8
11368.5	25°	11496.9	11734.0	12188.3	12896.2	13590.9	13732.4	13716.0	13627.1	13574.4
10308.4	27.5°	10417.0	10654.1	11065.6	11704.4	12448.4	12902.8	12945.6	12804.0	12800.7
9363.5	30°	9442.5	9768.4	10081.2	10601.4	11322.4	12004.0	12076.4	11977.6	11987.5
8497.6	32.5°	8678.7	8948.6	9215.3	9564.3	10163.5	10957.0	11240.1	11147.9	11111.7
7776.6	35°	7898.4	8082.8	8356.0	8675.4	9083.6	9870.5	10361.1	10291.9	10255.7
6802.0	37.5°	7009.4	7325.5	7523.0	7881.9	8201.3	8826.8	9518.2	9508.3	9432.6
5972.3	40°	6097.5	6430.0	6729.6	7091.7	7338.7	7835.8	8602.9	8599.7	8609.5
5113.0	42.5°	5271.1	5577.3	5939.4	6334.5	6571.6	6933.7	7756.8	7802.9	7858.9
4405.2	45°	4523.7	4800.3	5136.1	5616.8	5903.2	6110.6	6841.5	7052.2	7048.9
3773.0	47.5°	3852.1	4112.2	4395.3	4862.8	5228.3	5415.9	6021.7	6321.3	6301.6
3094.8	50°	3233.1	3463.6	3759.9	4099.0	4589.6	4754.2	5205.2	5600.3	5570.7
2466.0	52.5°	2601.0	2920.3	3170.5	3480.0	3996.9	4158.3	4507.2	4892.5	4869.4
1850.3	55°	2028.1	2337.6	2640.5	2907.2	3341.7	3582.1	3832.3	4227.4	4220.8
1448.6	57.5°	1534.2	1873.4	2159.8	2413.3	2759.0	3055.3	3256.1	3615.0	3661.1
991.0	60°	1135.9	1396.0	1705.4	1988.6	2261.9	2568.0	2703.0	3055.3	3075.1
678.2	62.5°	773.7	1060.1	1363.0	1619.8	1824.0	2140.0	2261.9	2551.6	2587.8
434.6	65°	536.7	721.0	1066.7	1251.1	1501.3	1771.3	1893.1	2123.6	2196.0
250.2	67.5°	355.6	513.6	833.0	1000.9	1247.8	1432.2	1586.9	1774.6	1853.6
158.0	70°	194.2	378.6	595.9	790.2	1004.2	1182.0	1333.4	1484.9	1554.0
72.4	72.5°	131.7	253.5	414.8	625.5	809.9	984.4	1119.4	1231.3	1234.6
42.8	75°	65.8	171.2	316.1	484.0	632.1	803.3	925.2	991.0	912.0
26.3	77.5°	39.5	125.1	256.8	388.5	513.6	648.6	717.7	754.0	625.5
19.8	80°	23.0	88.9	200.8	309.5	355.6	477.4	543.2	553.1	418.1
13.2	82.5°	16.5	65.8	158.0	227.2	217.3	335.8	408.3	395.1	266.7
9.9	85°	9.9	46.1	98.8	141.6	131.7	220.6	237.1	243.6	154.7
6.6	87.5°	6.6	26.3	52.7	75.7	62.6	95.5	95.5	115.2	75.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
17791.9
17350.8
17423.2
17212.5
16922.7
16567.2
16149.0
15648.6
14980.3
14331.7
13518.4
12794.1
11938.1
11115.0
10206.3
9495.2
8609.5
7829.2
7055.5
6308.2
5597.0
4918.8
4237.3
3641.4
3104.7
2594.4
2179.5
1843.7
1527.7
1205.0
852.7
602.5
391.8
246.9
141.6
65.8
0.0

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