

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: P636778

Luminaire Tested: **IFLD-S-SA6C-935-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636778
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-935-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21222.1 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 321.5
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



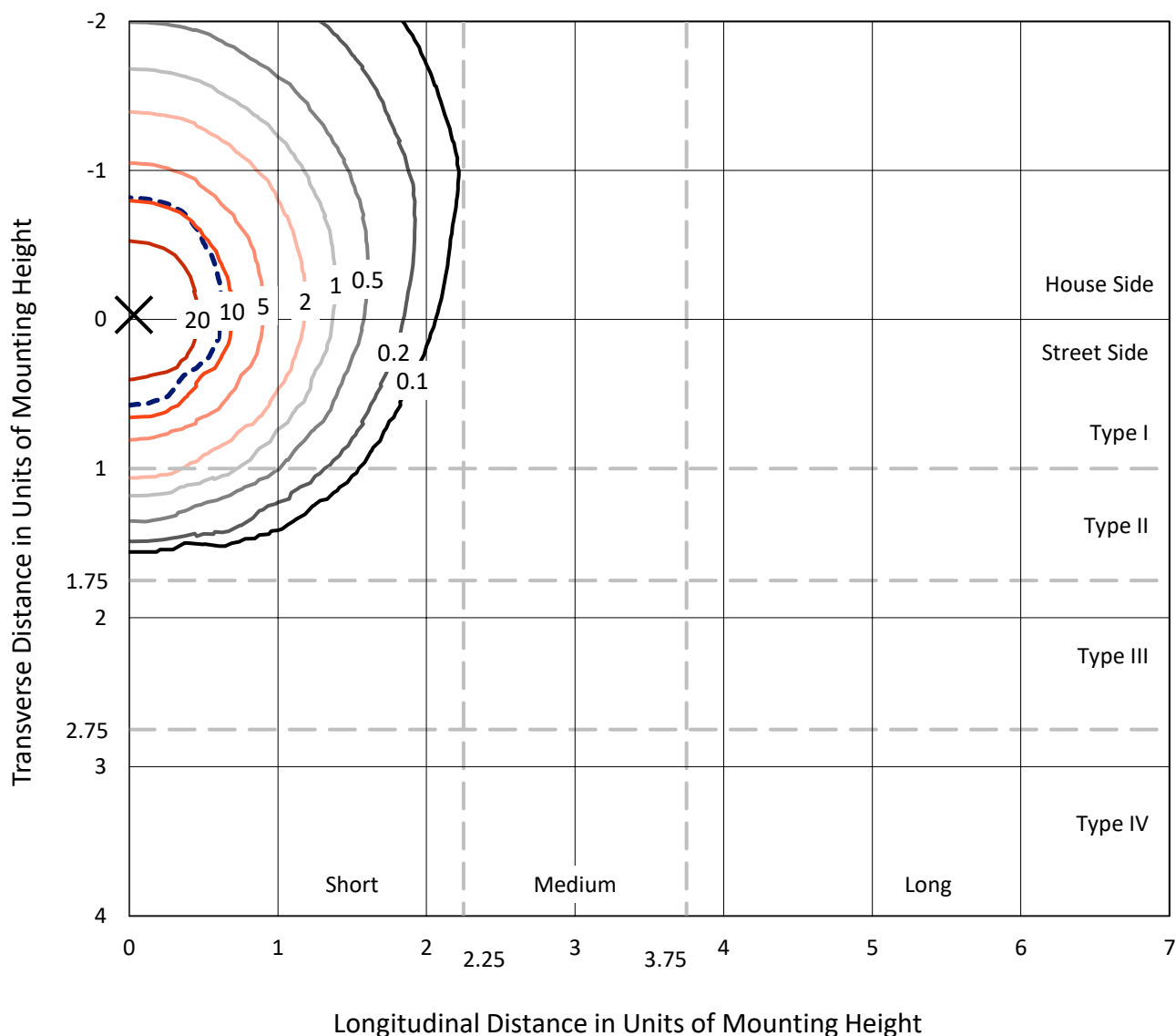
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

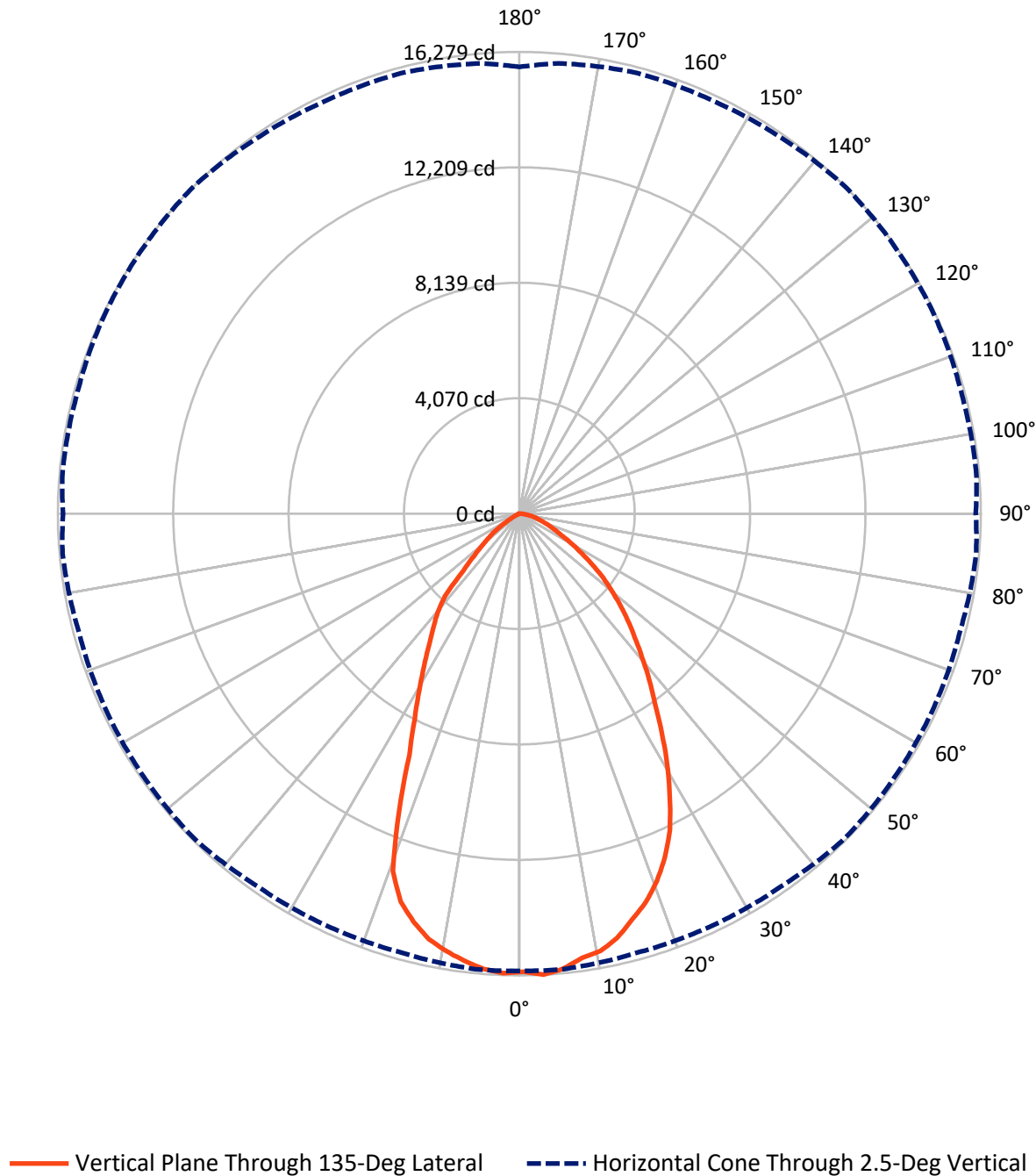


Based on 20 foot mounting height. Maximum calculated value = 40.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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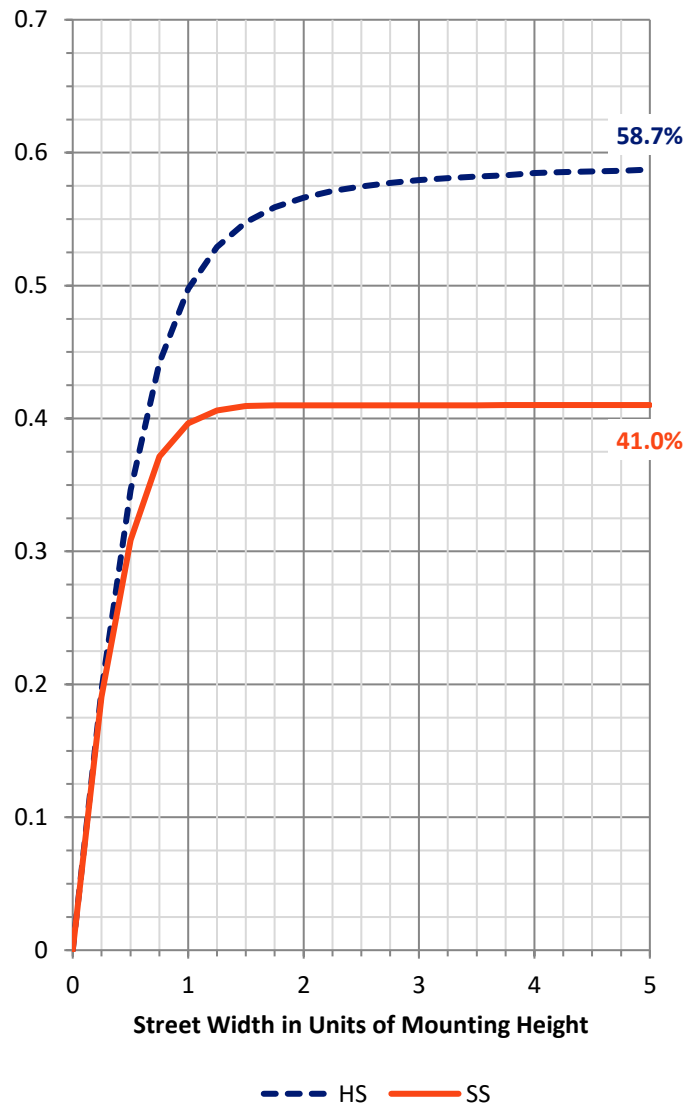
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12568.8	0.0	12568.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8653.3	0.0	8653.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	21222.1	0.0	21222.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1514.6	7.1
10°-20°	4061.5	19.1
20°-30°	4953.3	23.3
30°-40°	4522.3	21.3
40°-50°	3268.1	15.4
50°-60°	1784.4	8.4
60°-70°	737.8	3.5
70°-80°	298.8	1.4
80°-90°	81.3	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°	21222.1	100.0
0°-180°	21222.1	100.0

Coefficient of Utilization



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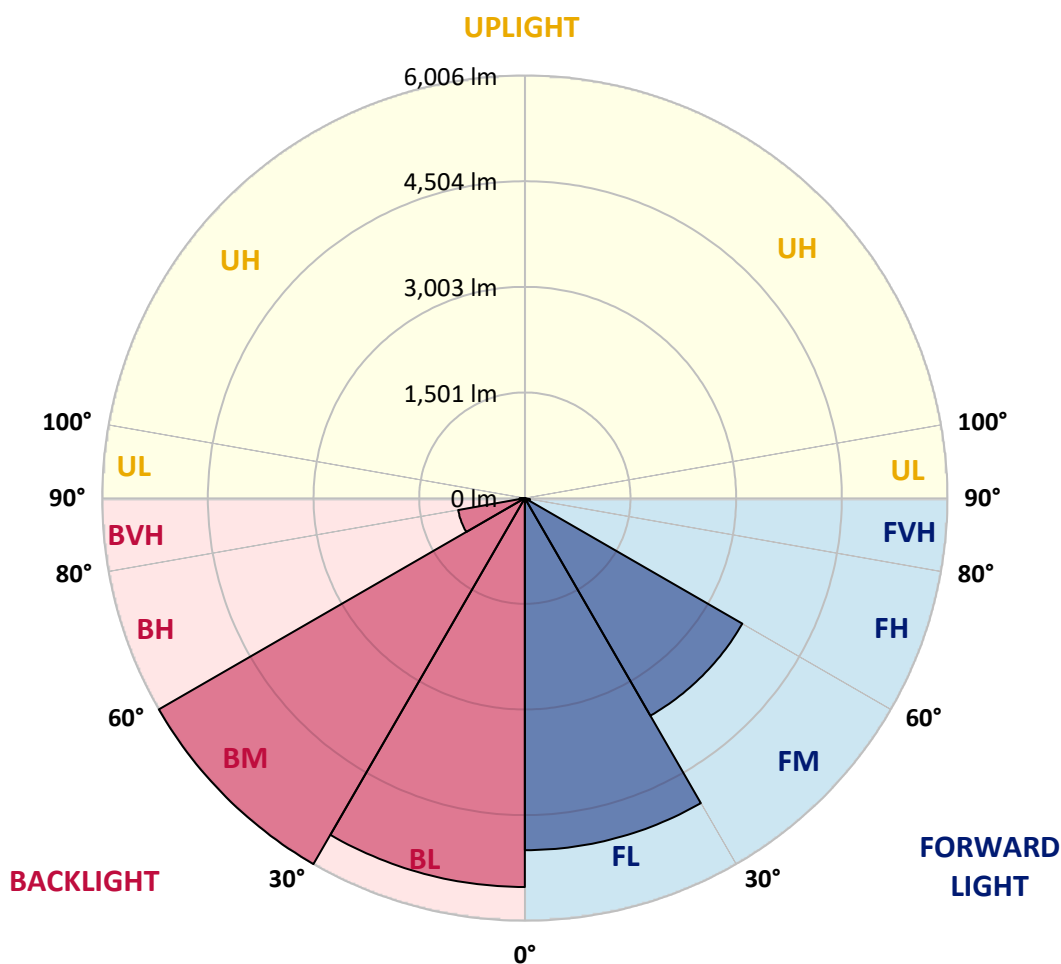
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5002.8	23.6			
FM	(30°-60°)	3569.2	16.8			
FH	(60°-80°)	74.8	0.4			G0/660
FVH	(80°-90°)	6.5	0.0			G0/10
BL	(0°-30°)	5526.5	26.0	B5		
BM	(30°-60°)	6005.7	28.3	B4/8500		
BH	(60°-80°)	961.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	74.8	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16150.0	16150.0	16150.0	16150.0	16150.0	16150.0	16150.0	16150.0	16150.0	16150.0
2.5°	16120.1	16141.0	16027.4	16039.4	16060.3	16212.7	16173.9	16138.0	16087.2	16173.9
5°	16099.2	16111.1	15991.6	15949.7	15967.7	16105.1	15979.6	15979.6	15967.7	15952.7
7.5°	15937.8	15943.8	15851.1	15776.4	15824.2	15887.0	15794.3	15839.2	15773.4	15824.2
10°	15695.7	15656.9	15546.3	15525.4	15579.2	15638.9	15576.2	15618.0	15558.2	15597.1
12.5°	15340.1	15280.3	15190.6	15163.7	15256.4	15337.1	15286.3	15262.4	15184.7	15280.3
15°	13968.3	13923.5	14126.7	14482.4	14802.1	14870.9	14817.1	14841.0	14679.6	14706.5
17.5°	11496.8	11413.2	11631.3	12474.1	13675.5	14309.0	14261.2	14105.8	13866.7	13920.5
20°	10447.9	10424.0	10400.0	10600.3	11440.1	13361.7	13427.4	13032.9	12692.2	12617.5
22.5°	9856.1	9847.2	9823.3	9868.1	10089.2	11323.5	12076.6	11712.0	11484.9	11464.0
25°	9315.2	9300.3	9228.5	9285.3	9285.3	9357.1	10322.3	10543.5	10343.3	10319.4
27.5°	8765.3	8738.4	8726.5	8753.4	8615.9	8131.8	8376.8	9455.7	9351.1	9357.1
30°	8170.6	8161.6	8128.8	8185.6	7761.2	7160.5	7005.1	8469.5	8490.4	8484.4
32.5°	7286.0	7324.9	7474.3	7537.0	6837.7	6341.6	6081.6	7327.8	7755.2	7746.2
35°	5292.7	5292.7	5779.8	6685.3	5992.0	5618.4	5478.0	6213.1	7029.0	7058.9
37.5°	4351.3	4366.2	4461.9	4874.3	5170.1	5038.6	4996.8	5229.9	6096.6	6144.4
40°	3915.0	3915.0	3915.0	3744.6	3735.6	4539.6	4515.7	4440.9	5265.8	5370.4
42.5°	3517.5	3526.5	3532.4	3102.1	2863.0	3923.9	3870.1	3756.6	4521.6	4644.2
45°	3108.1	3123.0	3140.9	2594.0	2489.4	2824.2	3275.4	3149.9	3786.5	3944.8
47.5°	1897.7	1921.6	2328.1	2199.6	2211.5	2178.6	2671.7	2650.8	3105.1	3329.2
50°	1282.1	1291.0	1329.9	1395.6	1897.7	1712.4	1891.7	2193.6	2357.9	2698.6
52.5°	1075.9	1090.8	995.2	905.5	1246.2	1338.9	1320.9	1628.7	1694.5	2115.9
55°	756.1	803.9	759.1	750.1	708.3	1040.0	1001.2	1252.2	1294.0	1607.8
57.5°	77.7	89.7	155.4	558.9	463.2	588.7	714.3	917.5	959.3	1186.4
60°	6.0	6.0	14.9	77.7	337.7	352.6	493.1	564.8	645.5	827.8
62.5°	0.0	3.0	6.0	12.0	53.8	188.3	248.0	295.9	388.5	534.9
65°	0.0	0.0	3.0	9.0	12.0	71.7	95.6	155.4	212.2	331.7
67.5°	0.0	0.0	3.0	6.0	9.0	17.9	32.9	56.8	113.6	188.3
70°	0.0	0.0	3.0	6.0	9.0	14.9	23.9	35.9	50.8	101.6
72.5°	0.0	0.0	3.0	3.0	6.0	14.9	17.9	23.9	35.9	50.8
75°	0.0	0.0	3.0	3.0	9.0	17.9	14.9	17.9	23.9	32.9
77.5°	0.0	0.0	3.0	6.0	9.0	17.9	14.9	17.9	17.9	20.9
80°	0.0	0.0	3.0	6.0	12.0	20.9	17.9	17.9	14.9	14.9
82.5°	0.0	0.0	3.0	9.0	12.0	26.9	26.9	23.9	12.0	9.0
85°	0.0	0.0	6.0	12.0	17.9	29.9	29.9	23.9	9.0	6.0
87.5°	0.0	0.0	6.0	9.0	14.9	20.9	29.9	23.9	9.0	3.0
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°
16150.0	0°	16150.0	16150.0	16150.0	16150.0	16150.0	16150.0	16150.0	16150.0	16150.0
16099.2	2.5°	16179.8	16161.9	16221.7	16245.6	16278.5	16152.9	16075.2	16078.2	15934.8
15916.9	5°	16012.5	16015.5	16093.2	16087.2	16120.1	16051.3	16021.5	15970.6	15845.1
15686.7	7.5°	15800.3	15773.4	15848.1	15904.9	15821.2	15869.0	15800.3	15824.2	15749.5
15483.5	10°	15635.9	15573.2	15641.9	15680.8	15683.7	15635.9	15570.2	15507.4	15480.5
15166.7	12.5°	15271.3	15190.6	15307.2	15361.0	15352.0	15259.4	15184.7	15199.6	15112.9
14610.9	15°	14769.3	14772.3	14855.9	14906.7	14858.9	14838.0	14844.0	14808.1	14733.4
13842.8	17.5°	14001.2	14046.0	14267.2	14389.7	14416.6	14374.8	14353.9	14312.0	14237.3
12617.5	20°	12722.1	12991.1	13385.6	13765.1	13839.8	13827.9	13753.2	13735.2	13693.4
11404.2	22.5°	11598.4	11798.7	12255.9	12847.6	13152.5	13182.4	13092.7	13065.8	13021.0
10319.4	25°	10435.9	10651.1	11063.5	11706.0	12336.6	12465.1	12450.2	12369.5	12321.7
9357.1	27.5°	9455.7	9670.8	10044.4	10624.2	11299.6	11712.0	11750.9	11622.4	11619.4
8499.3	30°	8571.1	8866.9	9150.8	9623.0	10277.5	10896.1	10961.9	10872.2	10881.2
7713.4	32.5°	7877.7	8122.8	8364.9	8681.6	9225.6	9945.8	10202.8	10119.1	10086.3
7058.9	35°	7169.5	7336.8	7584.9	7874.7	8245.3	8959.6	9404.9	9342.1	9309.2
6174.3	37.5°	6362.6	6649.5	6828.8	7154.5	7444.4	8012.2	8639.8	8630.8	8562.1
5421.2	40°	5534.7	5836.6	6108.5	6437.3	6661.4	7112.7	7809.0	7806.0	7815.0
4641.2	42.5°	4784.6	5062.6	5391.3	5749.9	5965.1	6293.8	7041.0	7082.8	7133.6
3998.6	45°	4106.2	4357.3	4662.1	5098.4	5358.4	5546.7	6210.1	6401.4	6398.4
3424.8	47.5°	3496.6	3732.7	3989.7	4414.0	4745.8	4916.1	5466.0	5738.0	5720.0
2809.2	50°	2934.7	3143.9	3412.9	3720.7	4166.0	4315.4	4724.8	5083.5	5056.6
2238.4	52.5°	2360.9	2650.8	2877.9	3158.9	3628.1	3774.5	4091.3	4440.9	4420.0
1679.5	55°	1840.9	2121.8	2396.8	2638.9	3033.3	3251.5	3478.6	3837.3	3831.3
1314.9	57.5°	1392.7	1700.5	1960.5	2190.6	2504.4	2773.3	2955.6	3281.4	3323.2
899.5	60°	1031.0	1267.1	1548.1	1805.1	2053.1	2331.0	2453.6	2773.3	2791.3
615.6	62.5°	702.3	962.3	1237.2	1470.4	1655.6	1942.5	2053.1	2316.1	2349.0
394.5	65°	487.1	654.5	968.3	1135.6	1362.8	1607.8	1718.4	1927.6	1993.3
227.1	67.5°	322.8	466.2	756.1	908.5	1132.6	1300.0	1440.5	1610.8	1682.5
143.4	70°	176.3	343.7	540.9	717.2	911.5	1072.9	1210.4	1347.8	1410.6
65.7	72.5°	119.5	230.1	376.6	567.8	735.2	893.6	1016.1	1117.7	1120.7
38.9	75°	59.8	155.4	286.9	439.3	573.8	729.2	839.8	899.5	827.8
23.9	77.5°	35.9	113.6	233.1	352.6	466.2	588.7	651.5	684.4	567.8
17.9	80°	20.9	80.7	182.3	280.9	322.8	433.3	493.1	502.1	379.5
12.0	82.5°	14.9	59.8	143.4	206.2	197.2	304.8	370.6	358.6	242.1
9.0	85°	9.0	41.8	89.7	128.5	119.5	200.2	215.2	221.2	140.5
6.0	87.5°	6.0	23.9	47.8	68.7	56.8	86.7	86.7	104.6	68.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
16150.0
15749.5
15815.2
15624.0
15361.0
15038.2
14658.7
14204.4
13597.8
13009.0
12270.9
11613.4
10836.4
10089.2
9264.4
8618.9
7815.0
7106.7
6404.4
5726.0
5080.5
4464.8
3846.2
3305.3
2818.2
2355.0
1978.4
1673.6
1386.7
1093.8
774.0
546.9
355.6
224.1
128.5
59.8
0.0

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