

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: McGRAW-EDISON

Report Number: P941886

Luminaire Tested: **GALN-SB5C-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28380 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

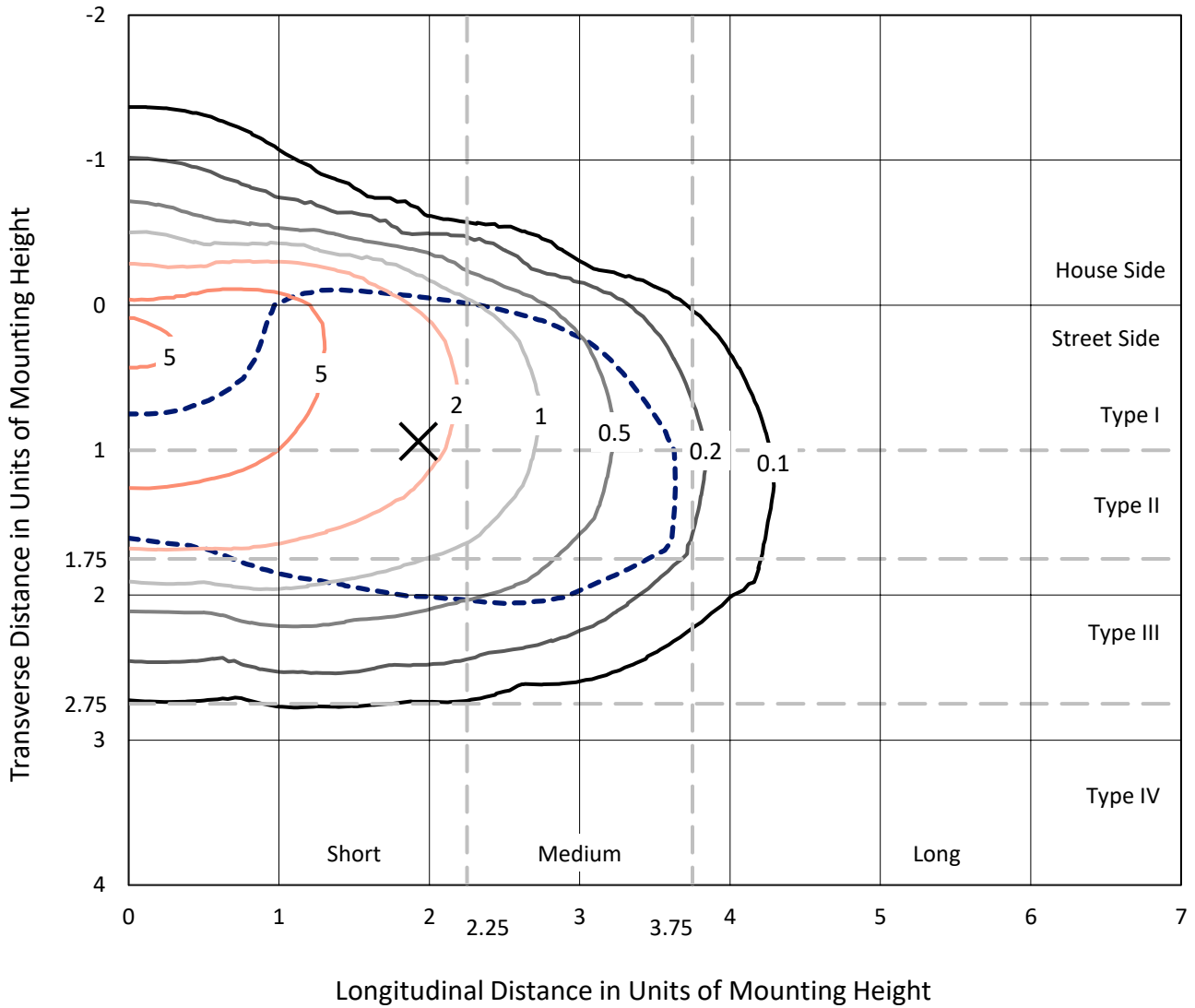
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

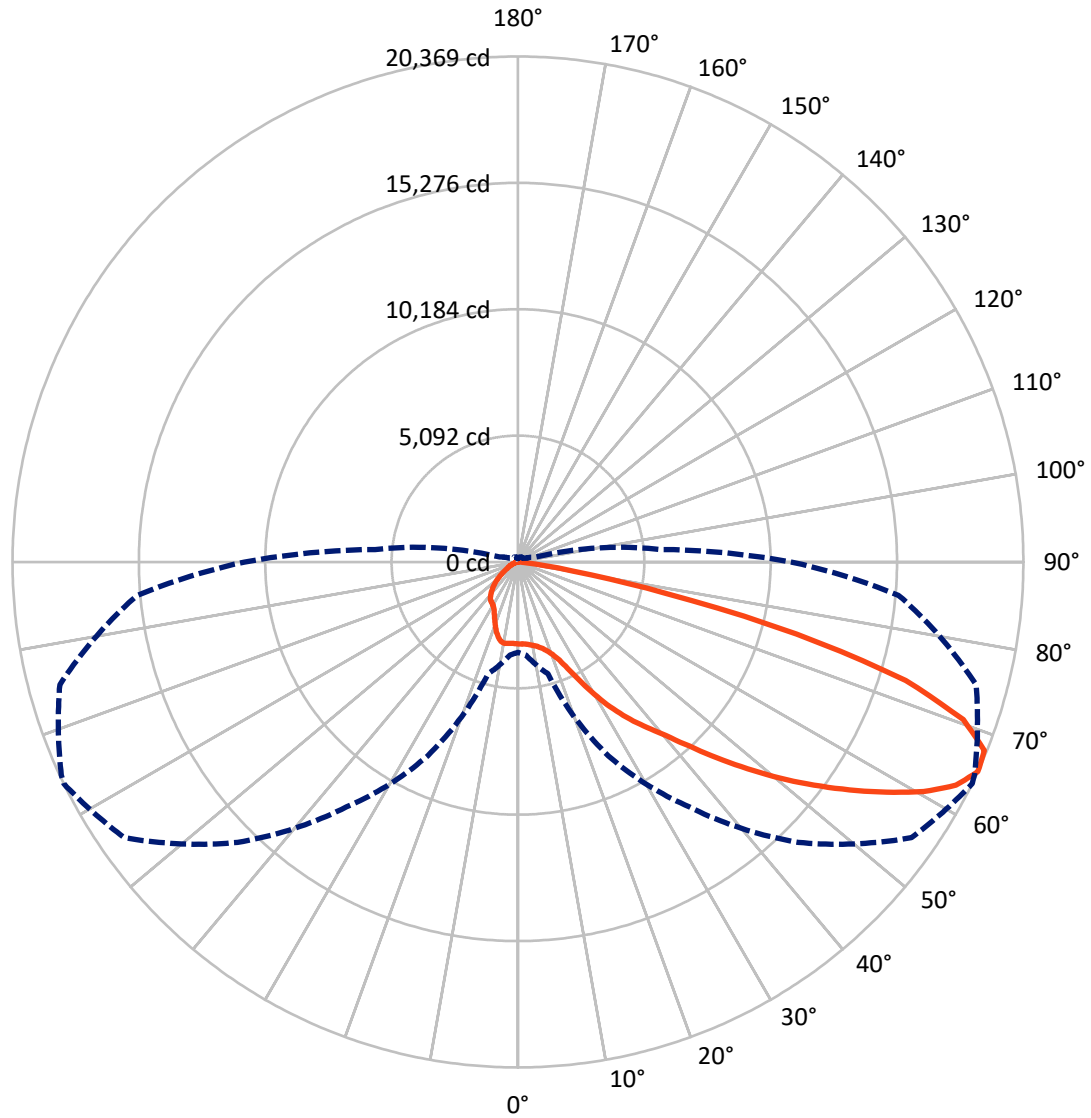
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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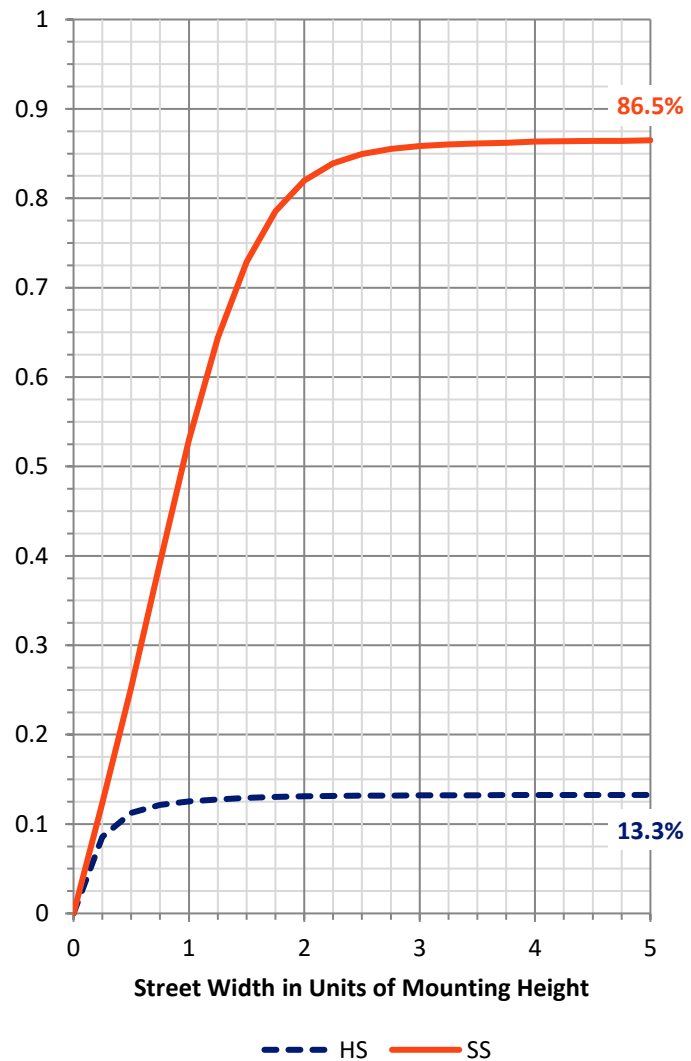
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3795.3	0.0	3795.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	24584.7	0.0	24584.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	28380.0	0.0	28380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.5	1.1
10°-20°	826.0	2.9
20°-30°	1565.2	5.5
30°-40°	3167.2	11.2
40°-50°	5395.4	19.0
50°-60°	7337.3	25.9
60°-70°	6890.1	24.3
70°-80°	2760.5	9.7
80°-90°	133.7	0.5
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°	28380.0	100.0
0°-180°	28380.0	100.0

Coefficient of Utilization



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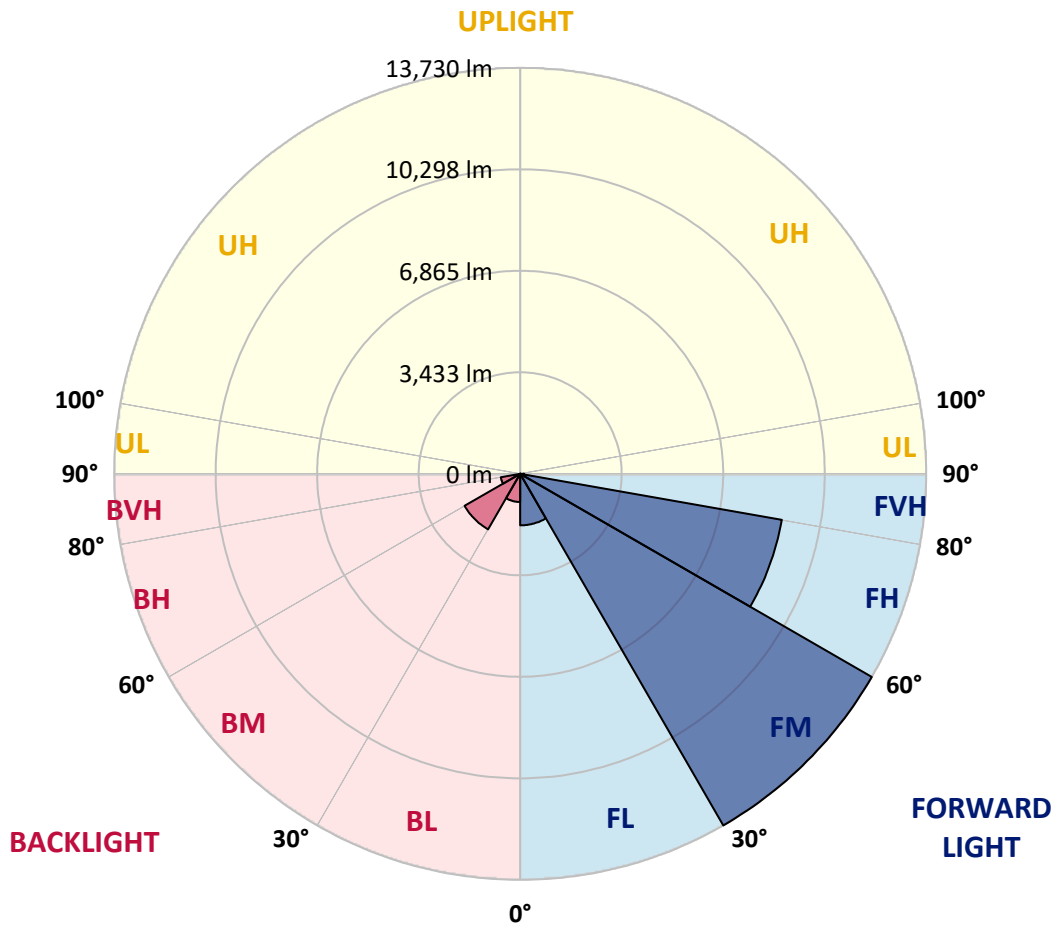
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1742.9	6.1			
FM (30°-60°)	13730.2	48.4			
FH (60°-80°)	8984.5	31.7			G4/12000
FVH (80°-90°)	127.2	0.4			G2/225
BL (0°-30°)	952.9	3.4	B2/1000		
BM (30°-60°)	2169.7	7.6	B2/2500		
BH (60°-80°)	666.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3300.9	3300.9	3300.9	3300.9	3300.9	3300.9	3300.9	3300.9	3300.9	3300.9
2.5°	3289.5	3312.3	3306.6	3300.9	3299.0	3302.8	3304.7	3302.8	3302.8	3302.8
5°	3226.7	3245.7	3245.7	3259.0	3278.1	3300.9	3318.0	3321.8	3325.6	3331.3
7.5°	3106.8	3122.1	3133.5	3177.2	3224.8	3285.7	3337.0	3363.7	3367.5	3388.4
10°	3025.0	3044.0	3063.1	3108.7	3177.2	3268.5	3356.1	3420.7	3430.3	3479.7
12.5°	3021.2	3040.2	3065.0	3114.4	3194.3	3291.4	3397.9	3491.1	3508.3	3580.6
15°	3061.2	3084.0	3106.8	3167.7	3253.3	3371.3	3485.4	3601.5	3618.6	3721.3
17.5°	3143.0	3173.4	3190.5	3251.4	3342.7	3474.0	3624.3	3757.5	3772.7	3892.6
20°	3304.7	3340.8	3346.5	3396.0	3485.4	3626.2	3805.1	3970.6	3989.6	4126.6
22.5°	3639.5	3690.9	3645.2	3670.0	3749.9	3890.7	4084.7	4294.0	4320.6	4476.7
25°	4229.3	4301.6	4183.7	4141.8	4176.1	4322.5	4566.1	4830.5	4861.0	4986.5
27.5°	5388.0	5294.7	5115.9	4940.9	4838.1	4921.8	5195.8	5523.0	5561.1	5682.9
30°	6660.8	6578.9	6337.3	5949.2	5705.7	5692.4	5945.4	6310.7	6354.4	6470.5
32.5°	7935.5	7857.4	7594.9	7117.4	6695.0	6485.7	6660.8	7066.0	7088.8	7163.0
35°	9189.2	9109.3	8846.8	8357.8	7838.4	7362.8	7328.5	7785.2	7792.8	7870.8
37.5°	10450.6	10384.0	10104.3	9624.9	9113.1	8456.7	8139.0	8466.3	8475.8	8551.9
40°	11350.5	11379.0	11186.9	10815.9	10376.4	9659.1	9048.4	9191.1	9134.0	9261.5
42.5°	12122.9	12180.0	12012.6	11826.1	11571.2	10939.5	10174.7	10150.0	10058.7	10127.2
45°	12790.7	12838.3	12688.0	12644.2	12638.5	12195.2	11405.7	11257.3	11129.8	11116.5
47.5°	13036.1	13127.5	13192.1	13338.6	13624.0	13437.6	12678.5	12448.3	12305.6	12200.9
50°	13129.4	13226.4	13447.1	13873.2	14548.6	14628.5	13945.5	13686.8	13511.8	13321.5
52.5°	13003.8	13176.9	13473.7	14191.0	15170.8	15583.6	15161.3	14934.9	14735.1	14425.0
55°	12263.7	12436.8	13043.7	14187.2	15480.9	16253.3	16310.4	16209.6	15985.1	15496.1
57.5°	10703.6	10960.5	11921.2	13703.9	15475.2	16829.8	17436.7	17509.0	17257.8	16557.7
60°	8542.4	8890.5	10062.5	12632.8	14997.6	17141.8	18424.1	18785.6	18519.2	17604.1
62.5°	5960.6	6364.0	7473.1	10954.8	13905.6	16917.3	19145.2	19812.9	19611.3	18540.2
65°	3635.7	3765.1	4659.3	8620.4	12048.7	15977.4	19367.8	20368.5	20301.9	19112.8
67.5°	2421.9	2530.4	2787.2	5911.2	9352.8	14099.6	18835.0	20271.5	20290.5	19019.6
70°	1459.2	1552.5	1719.9	3437.9	6061.5	11160.2	17185.5	19034.8	19145.2	17773.4
72.5°	601.2	664.0	816.2	1558.2	3139.2	7083.1	13684.9	16342.7	16599.6	14944.4
75°	340.6	372.9	479.4	781.9	1362.2	3300.9	8289.3	11601.6	11980.2	10300.3
77.5°	226.4	241.6	310.1	506.1	766.7	1126.3	3542.5	6044.3	6767.3	5625.8
80°	152.2	165.5	213.1	338.7	498.5	483.2	1128.2	2239.3	2754.9	1933.0
82.5°	102.7	104.6	152.2	222.6	315.8	234.0	332.9	696.3	875.2	559.3
85°	59.0	57.1	112.2	129.4	140.8	97.0	100.8	209.3	274.0	235.9
87.5°	7.6	11.4	43.8	34.2	19.0	20.9	20.9	36.1	53.3	57.1
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3300.9	0°	3300.9	3300.9	3300.9	3300.9	3300.9	3300.9	3300.9	3300.9	3300.9	3300.9
3304.7	2.5°	3304.7	3302.8	3297.1	3291.4	3278.1	3270.4	3274.3	3270.4	3268.5	3270.4
3329.4	5°	3329.4	3323.7	3308.5	3289.5	3262.8	3230.5	3209.6	3179.1	3150.6	3133.5
3396.0	7.5°	3396.0	3390.3	3369.4	3316.1	3230.5	3095.4	2971.8	2863.3	2781.5	2733.9
3502.6	10°	3502.6	3493.0	3460.7	3342.7	3118.2	2823.4	2577.9	2374.4	2241.2	2178.4
3628.1	12.5°	3628.1	3616.7	3559.6	3318.0	2905.2	2444.8	2106.1	1879.7	1756.0	1700.9
3772.7	15°	3776.5	3761.3	3649.1	3200.1	2595.1	2026.2	1716.1	1546.8	1466.9	1417.4
3957.3	17.5°	3961.1	3934.4	3715.6	3023.1	2258.3	1706.6	1476.4	1348.9	1278.5	1230.9
4198.9	20°	4200.8	4157.0	3768.9	2811.9	1948.2	1504.9	1314.6	1208.1	1154.8	1113.0
4541.3	22.5°	4535.6	4472.8	3833.6	2583.6	1729.4	1366.0	1194.8	1116.8	1073.0	1025.5
5018.9	25°	4950.4	4876.2	3913.5	2372.5	1579.1	1246.2	1107.3	1042.6	991.2	936.0
5644.8	27.5°	5530.7	5397.5	4008.6	2199.3	1449.7	1143.4	1027.4	955.1	896.1	850.4
6354.4	30°	6177.5	5958.7	4092.3	2094.7	1331.8	1048.3	922.7	850.4	795.3	762.9
6991.8	32.5°	6790.1	6493.3	4147.5	2049.0	1225.2	939.8	808.6	730.6	688.7	679.2
7615.8	35°	7368.5	6976.6	4141.8	2005.3	1130.1	831.4	696.3	616.4	584.1	589.8
8287.4	37.5°	8034.4	7492.2	4101.9	1936.8	1052.1	732.5	599.3	528.9	500.4	502.3
9103.6	40°	8808.7	8087.7	4077.1	1807.4	966.5	641.2	519.4	462.3	441.4	433.8
9963.5	42.5°	9634.4	8664.1	4080.9	1660.9	859.9	559.3	464.2	416.7	397.6	391.9
10920.5	45°	10463.9	9214.0	4086.6	1508.7	747.7	496.6	424.3	384.3	372.9	365.3
11890.8	47.5°	11243.9	9682.0	3980.1	1345.1	637.3	449.0	391.9	365.3	355.8	346.3
12864.9	50°	11970.7	9994.0	3723.3	1154.8	549.8	410.9	367.2	348.2	338.7	329.1
13747.7	52.5°	12535.8	10043.5	3299.0	958.9	489.0	382.4	352.0	334.8	323.4	313.9
14461.1	55°	12786.9	9733.3	2695.9	776.2	441.4	357.7	336.7	319.6	306.3	296.8
15022.4	57.5°	12722.2	9080.8	2102.3	624.0	395.7	332.9	317.7	306.3	291.1	275.9
15477.1	60°	12404.5	8207.5	1584.8	519.4	353.9	306.3	296.8	287.3	266.4	243.5
15652.1	62.5°	11854.7	7109.8	1130.1	430.0	308.2	275.9	272.1	264.5	234.0	192.2
15393.4	65°	11013.7	5776.1	761.0	357.7	264.5	241.6	243.5	230.2	190.3	142.7
14445.9	67.5°	9784.7	4223.6	487.0	293.0	220.7	201.7	203.6	196.0	161.7	121.8
12649.9	70°	8218.9	2796.7	317.7	222.6	176.9	156.0	167.4	169.3	137.0	98.9
9708.6	72.5°	6025.3	1651.4	222.6	165.5	129.4	108.4	137.0	140.8	110.3	74.2
5840.8	75°	3434.1	783.8	167.4	119.9	79.9	76.1	106.5	106.5	76.1	49.5
2528.5	77.5°	1442.1	327.2	118.0	78.0	45.7	43.8	72.3	66.6	38.1	22.8
616.4	80°	416.7	146.5	62.8	38.1	19.0	17.1	28.5	20.9	9.5	3.8
234.0	82.5°	163.6	64.7	24.7	15.2	7.6	7.6	3.8	0.0	0.0	0.0
133.2	85°	97.0	26.6	11.4	5.7	1.9	0.0	0.0	0.0	0.0	0.0
28.5	87.5°	24.7	5.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	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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<u>180°</u>
3300.9
3278.1
3137.3
2735.8
2172.7
1695.2
1419.3
1227.1
1105.4
1017.9
930.3
840.9
757.2
684.9
589.8
509.9
431.9
390.0
365.3
346.3
329.1
312.0
294.9
274.0
239.7
188.4
138.9
116.1
95.1
70.4
45.7
22.8
3.8
0.0
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