

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: P954000

Luminaire Tested: **GALN-SB7B-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39016 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

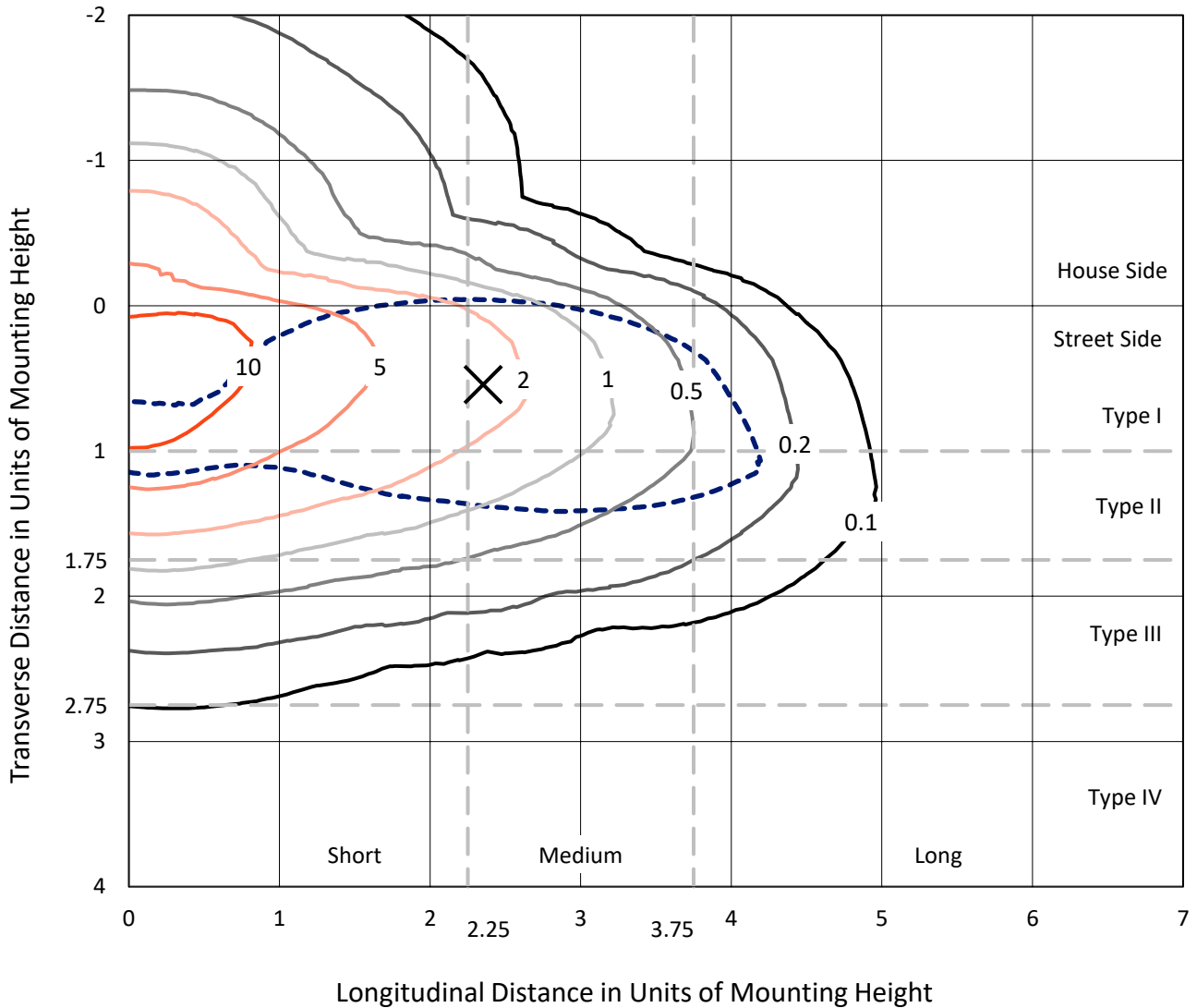
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

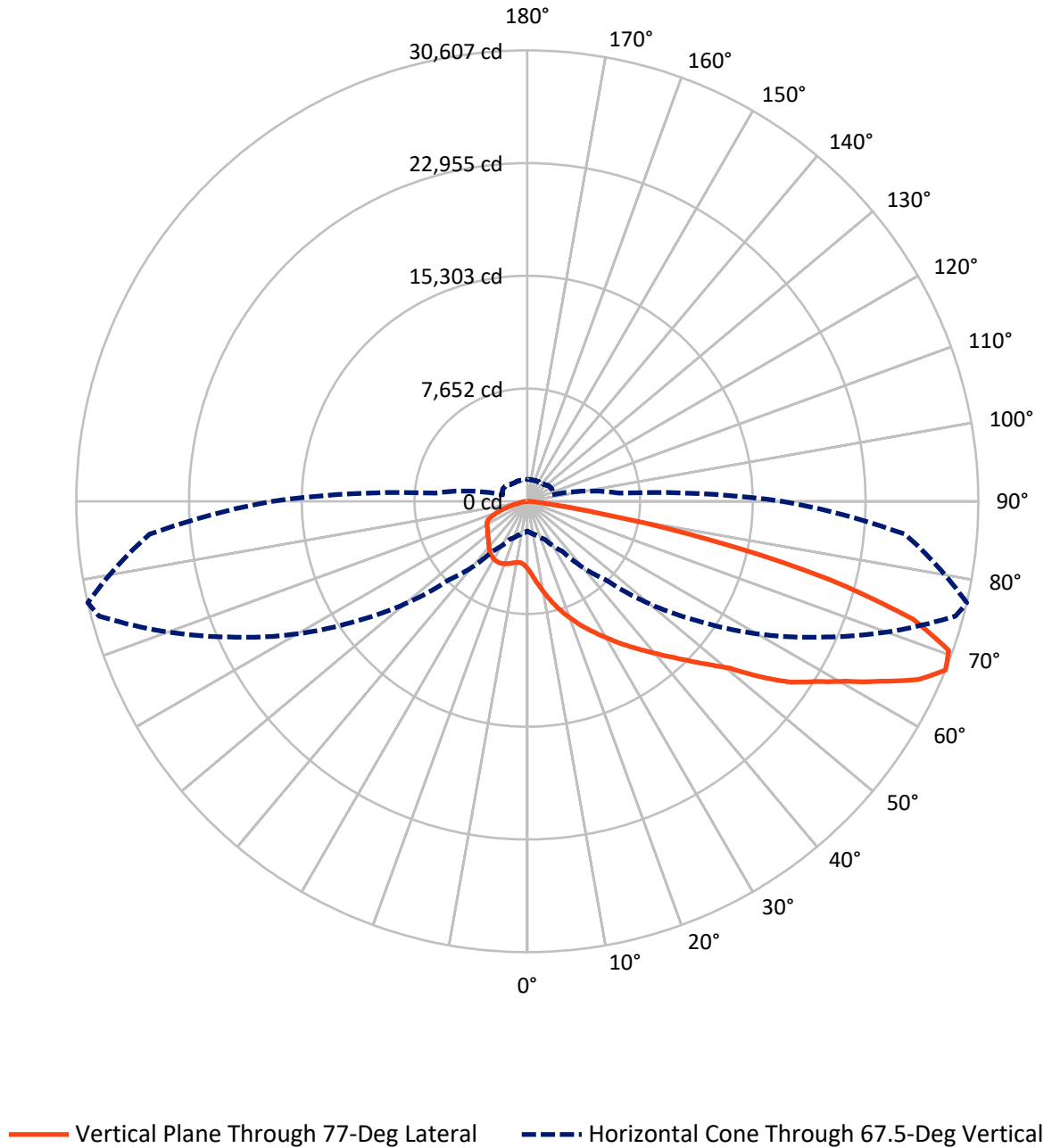
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7380.3	0.0	7380.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	31635.7	0.0	31635.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	39016.0	0.0	39016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.7	1.3
10°-20°	1762.8	4.5
20°-30°	3328.3	8.5
30°-40°	5361.9	13.7
40°-50°	7334.1	18.8
50°-60°	8273.0	21.2
60°-70°	7721.8	19.8
70°-80°	4232.8	10.8
80°-90°	510.6	1.3
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°	39016.0	100.0
0°-180°	39016.0	100.0

Coefficient of Utilization



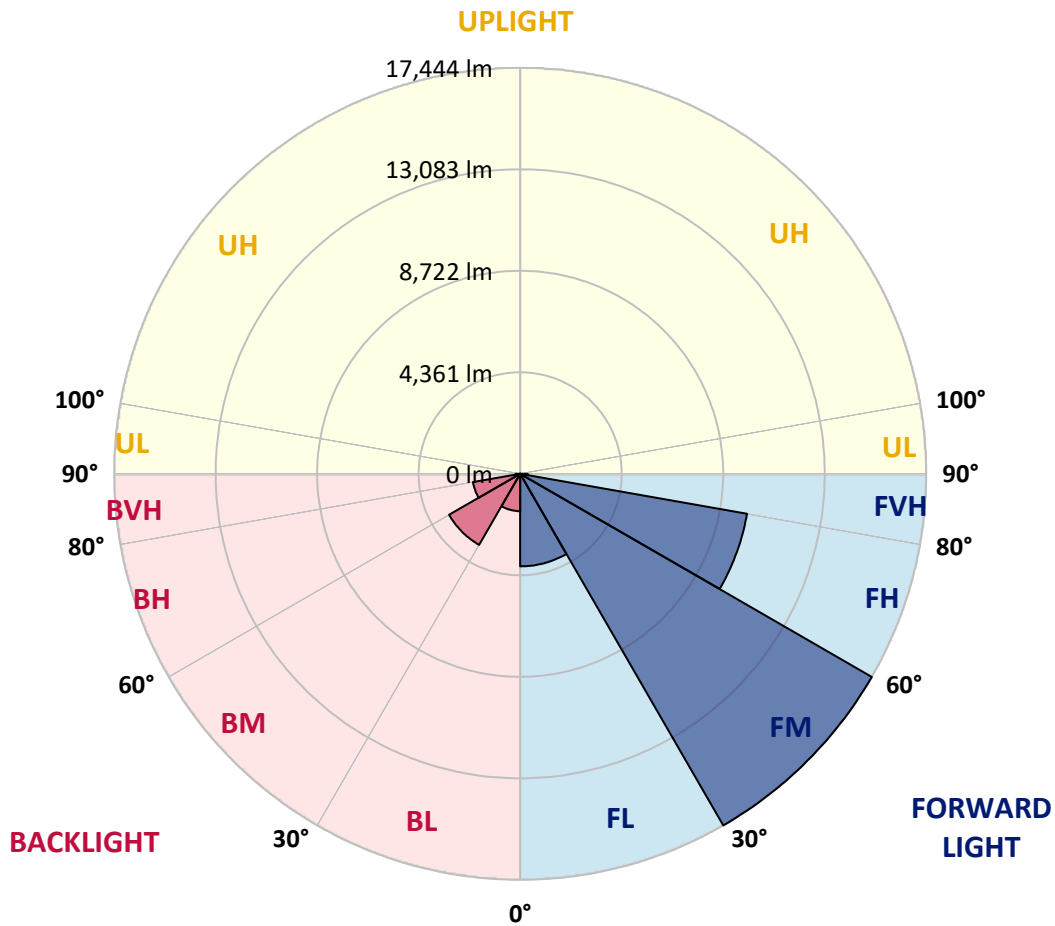
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3977.2	10.2			
FM (30°-60°)	17443.6	44.7			
FH (60°-80°)	9895.6	25.4			G4/12000
FVH (80°-90°)	319.3	0.8			G3/500
BL (0°-30°)	1604.6	4.1	B3/2500		
BM (30°-60°)	3525.4	9.0	B3/5000		
BH (60°-80°)	2059.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	191.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4577.8	4577.8	4577.8	4577.8	4577.8	4577.8	4577.8	4577.8	4577.8	4577.8
2.5°	5731.8	5772.1	5721.7	5721.7	5552.6	5463.9	5294.8	5165.9	4934.3	4894.0
5°	6775.0	6825.4	6754.9	6724.7	6525.3	6342.0	6058.1	5778.1	5365.3	5323.0
7.5°	7582.7	7647.1	7584.7	7552.4	7375.2	7169.8	6837.5	6446.8	5864.7	5782.2
10°	8241.2	8251.3	8231.2	8243.2	8104.3	7935.1	7594.7	7139.6	6412.5	6299.7
12.5°	8613.8	8660.1	8700.4	8772.9	8748.8	8644.0	8337.9	7794.1	6992.6	6847.6
15°	8789.0	8869.6	8960.2	9127.4	9262.3	9288.5	9054.9	8497.0	7582.7	7407.4
17.5°	8851.5	8928.0	9071.0	9312.7	9602.7	9798.0	9693.3	9179.7	8166.7	7965.3
20°	9167.7	9189.8	9276.4	9506.0	9820.2	10144.4	10223.0	9836.3	8744.7	8517.1
22.5°	9844.4	9800.1	9824.2	9928.9	10154.5	10468.7	10647.9	10416.3	9338.9	9077.0
25°	10962.1	10833.2	10704.3	10583.5	10698.3	10875.5	11078.9	10996.4	9961.2	9628.9
27.5°	12373.9	12216.8	11932.9	11536.1	11397.1	11459.6	11550.2	11534.1	10537.2	10200.8
30°	13763.6	13580.3	13242.0	12668.0	12301.4	12136.3	12067.8	12021.5	11163.5	10805.0
32.5°	14873.3	14728.3	14396.0	13753.5	13221.8	12939.9	12712.3	12547.1	11818.1	11459.6
35°	15844.0	15709.1	15328.4	14627.6	14049.6	13749.5	13451.4	13099.0	12498.8	12136.3
37.5°	16730.2	16595.2	16073.6	15344.6	14762.5	14555.1	14289.2	13691.1	13181.5	12839.2
40°	17290.1	17259.9	16772.5	15946.7	15342.5	15239.8	15151.2	14377.8	13938.8	13620.6
42.5°	17433.1	17499.5	17112.8	16434.1	15858.1	15775.5	15983.0	15155.2	14788.7	14484.6
45°	17088.7	17280.0	17026.2	16565.0	16224.7	16180.4	16720.1	16005.1	15729.2	15451.3
47.5°	16216.6	16540.9	16436.1	16371.7	16323.4	16514.7	17368.6	16907.4	16794.6	16552.9
50°	14456.4	15070.7	15253.9	15660.8	16128.0	16774.5	17958.7	17892.2	18039.3	17795.6
52.5°	11413.3	12259.1	13322.5	14341.6	15527.8	16687.9	18607.2	19306.1	19926.4	19793.4
55°	9421.4	9802.1	10619.7	12488.7	14363.7	16323.4	18899.2	20448.0	21799.4	21680.6
57.5°	7890.8	8231.2	8734.7	10295.5	12603.5	15495.6	19080.5	21144.8	23082.3	23070.2
60°	6249.4	6609.9	7125.5	8231.2	10547.2	14065.7	19040.2	21938.3	24719.7	24820.4
62.5°	4396.5	4793.3	5365.3	6396.4	8446.7	12212.8	18218.5	22512.3	26647.0	26920.9
65°	2890.1	3151.9	3582.9	4473.1	6293.7	9830.3	16649.6	22586.8	28709.4	29172.6
67.5°	2026.1	2126.8	2380.5	2863.9	4148.8	7538.3	14150.3	21815.5	30084.9	30606.5
70°	1581.0	1631.3	1760.2	1953.6	2606.1	5069.2	10843.3	19809.6	29790.9	30334.6
72.5°	1365.5	1413.8	1462.2	1486.3	1748.1	3129.7	7345.0	16563.0	27021.6	27390.2
75°	1238.6	1250.7	1291.0	1282.9	1333.3	2030.1	4239.4	12067.8	21320.0	21193.2
77.5°	1041.2	1057.3	1123.8	1113.7	1184.2	1387.6	2201.3	7788.1	13822.0	12960.0
80°	882.1	890.2	962.7	950.6	1029.1	1005.0	1123.8	3969.6	5862.7	4966.5
82.5°	306.1	378.6	735.1	757.3	785.5	608.2	648.5	1619.2	1790.4	1371.5
85°	149.0	159.1	374.6	531.7	529.7	306.1	316.2	578.0	563.9	443.1
87.5°	24.2	30.2	44.3	207.4	165.1	80.6	108.8	112.8	116.8	100.7
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°
4577.8	0°	4577.8	4577.8	4577.8	4577.8	4577.8	4577.8	4577.8	4577.8	4577.8	4577.8
4740.9	2.5°	4628.1	4527.4	4316.0	4120.6	3967.6	3820.5	3738.0	3667.5	3627.2	3619.1
4962.5	5°	4753.0	4545.6	4160.9	3836.6	3625.2	3468.1	3385.5	3333.1	3307.0	3290.9
5260.5	7.5°	4932.3	4628.1	4080.3	3711.8	3490.2	3377.5	3335.2	3327.1	3325.1	3327.1
5621.0	10°	5180.0	4763.1	4072.3	3681.6	3496.3	3433.8	3431.8	3433.8	3441.9	3443.9
6013.8	12.5°	5447.8	4902.0	4104.5	3707.7	3572.8	3538.6	3532.5	3530.5	3536.6	3540.6
6410.5	15°	5739.9	5085.3	4158.9	3764.1	3657.4	3621.1	3615.1	3603.0	3601.0	3599.0
6827.4	17.5°	6039.9	5266.6	4219.3	3824.6	3711.8	3661.4	3639.3	3611.1	3588.9	3582.9
7258.4	20°	6344.1	5445.8	4261.6	3854.8	3715.8	3645.3	3601.0	3552.7	3514.4	3492.3
7693.4	22.5°	6668.3	5633.1	4287.8	3846.7	3679.6	3582.9	3502.3	3445.9	3387.5	3349.3
8132.5	25°	6984.5	5796.3	4285.8	3804.4	3609.1	3486.2	3383.5	3311.0	3230.4	3190.2
8585.6	27.5°	7288.6	5943.3	4235.4	3729.9	3508.4	3371.4	3248.6	3162.0	3083.4	3045.1
9042.8	30°	7602.8	6066.1	4156.9	3621.1	3389.5	3238.5	3103.6	3029.0	2958.5	2922.3
9526.2	32.5°	7915.0	6178.9	4046.1	3486.2	3252.6	3107.6	2974.7	2906.2	2863.9	2863.9
10045.8	35°	8245.3	6257.5	3899.1	3329.1	3107.6	2968.6	2863.9	2823.6	2819.6	2795.4
10595.6	37.5°	8593.7	6307.8	3719.8	3168.0	2964.6	2833.7	2801.5	2753.1	2712.8	2660.5
11199.8	40°	8960.2	6358.2	3504.3	3000.8	2813.5	2741.0	2726.9	2662.5	2547.7	2418.8
11884.5	42.5°	9405.3	6392.4	3280.8	2833.7	2654.4	2630.3	2650.4	2539.6	2356.4	2259.7
12710.3	45°	9920.9	6448.8	3075.4	2668.5	2491.3	2491.3	2575.9	2430.9	2279.8	2219.4
13652.8	47.5°	10589.5	6579.7	2884.0	2487.3	2340.3	2380.5	2410.7	2300.0	2215.4	2140.9
14800.8	50°	11556.2	6893.9	2686.7	2304.0	2225.5	2306.0	2263.7	2199.3	2100.6	2040.2
16625.4	52.5°	12756.6	7079.2	2511.4	2138.9	2126.8	2207.3	2146.9	2086.5	2012.0	1931.4
18009.1	55°	13574.3	7113.4	2364.4	2018.0	2060.3	2052.3	2030.1	1975.7	1935.4	1828.7
19374.5	57.5°	14488.6	7181.9	2243.6	1945.5	2018.0	1929.4	1921.3	1875.0	1822.7	1750.2
21040.1	60°	15582.2	7288.6	2138.9	1917.3	1981.8	1848.8	1808.6	1790.4	1738.1	1701.8
23044.0	62.5°	16774.5	7385.3	2032.1	1921.3	1939.5	1770.3	1709.9	1703.8	1671.6	1659.5
24925.1	65°	17588.1	7121.5	1899.2	1917.3	1873.0	1689.7	1613.2	1611.2	1585.0	1581.0
25740.7	67.5°	17304.2	6285.6	1719.9	1860.9	1804.5	1609.2	1524.6	1516.5	1482.3	1484.3
24888.8	70°	15882.3	5093.4	1472.2	1722.0	1719.9	1536.7	1431.9	1405.8	1359.4	1367.5
21640.3	72.5°	13215.8	3774.2	1139.9	1490.3	1585.0	1470.2	1325.2	1282.9	1224.5	1232.6
15974.9	75°	9544.3	2565.8	829.8	1133.9	1379.6	1391.7	1220.5	1148.0	1077.5	1089.6
8891.7	77.5°	4883.9	1454.1	610.2	781.4	1083.5	1264.8	1125.8	1029.1	1013.0	1125.8
2563.8	80°	1593.1	729.1	422.9	547.8	710.9	1035.2	986.9	876.1	872.1	898.2
537.7	82.5°	475.3	308.1	271.9	360.5	392.7	793.5	851.9	662.6	570.0	600.2
179.2	85°	163.1	149.0	155.1	179.2	187.3	465.2	596.1	439.0	414.9	457.2
40.3	87.5°	38.3	52.4	44.3	40.3	40.3	112.8	231.6	183.3	253.8	169.2
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>
4577.8
3619.1
3288.8
3333.1
3445.9
3542.6
3597.0
3588.9
3500.3
3351.3
3190.2
3043.1
2920.3
2865.9
2789.4
2652.4
2400.7
2261.7
2229.5
2138.9
2034.1
1915.3
1830.7
1726.0
1711.9
1659.5
1579.0
1484.3
1375.6
1230.5
1093.6
1109.7
771.4
620.3
451.1
163.1
0.0

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