

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: P941545

Luminaire Tested: **GALN-SB5A-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21476 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

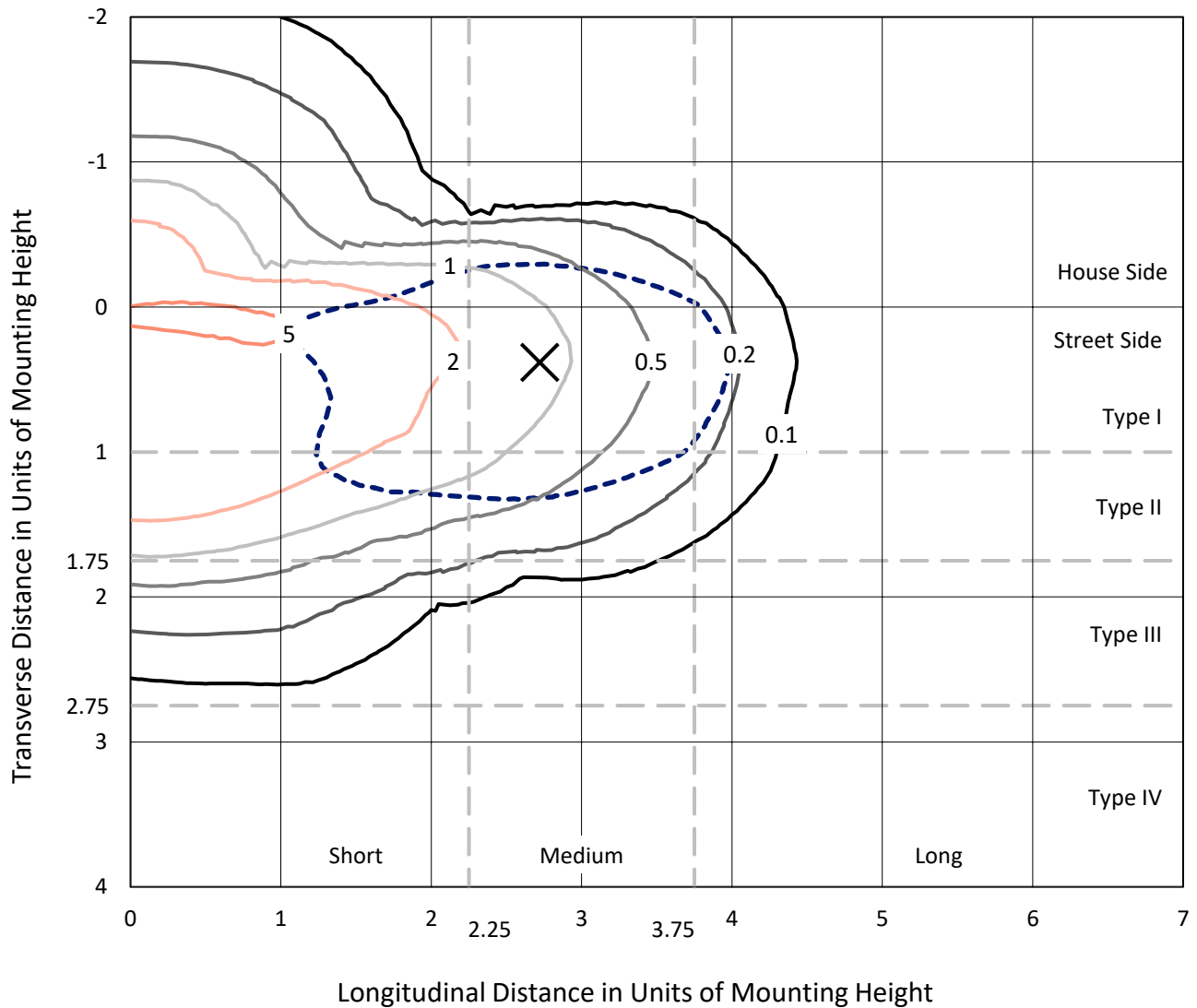
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

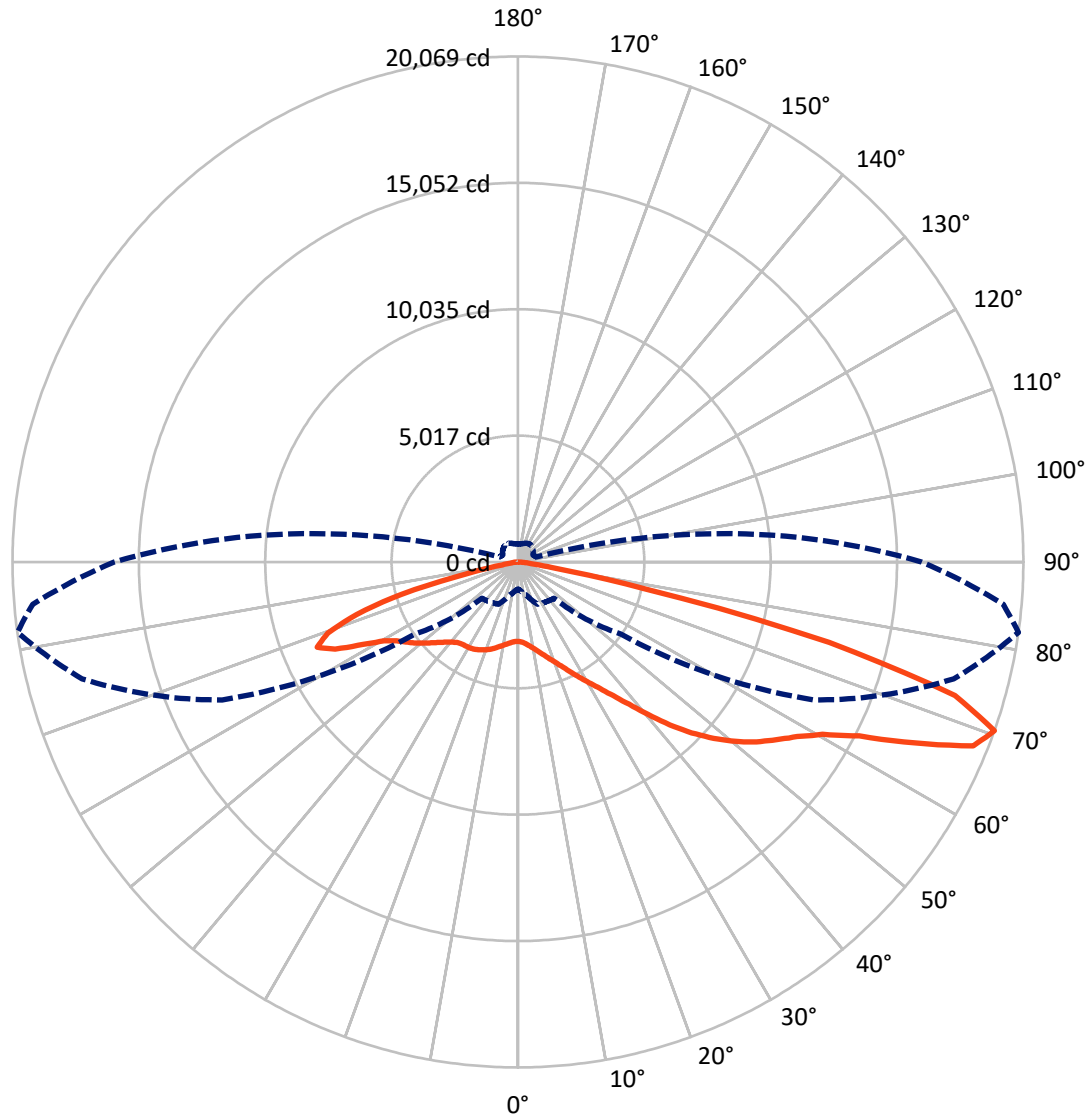
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5294.4	0.0	5294.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	16181.6	0.0	16181.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	21476.0	0.0	21476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.3	1.4
10°-20°	854.1	4.0
20°-30°	1428.9	6.7
30°-40°	2232.3	10.4
40°-50°	3555.1	16.6
50°-60°	4947.4	23.0
60°-70°	5175.2	24.1
70°-80°	2704.8	12.6
80°-90°	280.9	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°	21476.0	100.0
0°-180°	21476.0	100.0

Coefficient of Utilization



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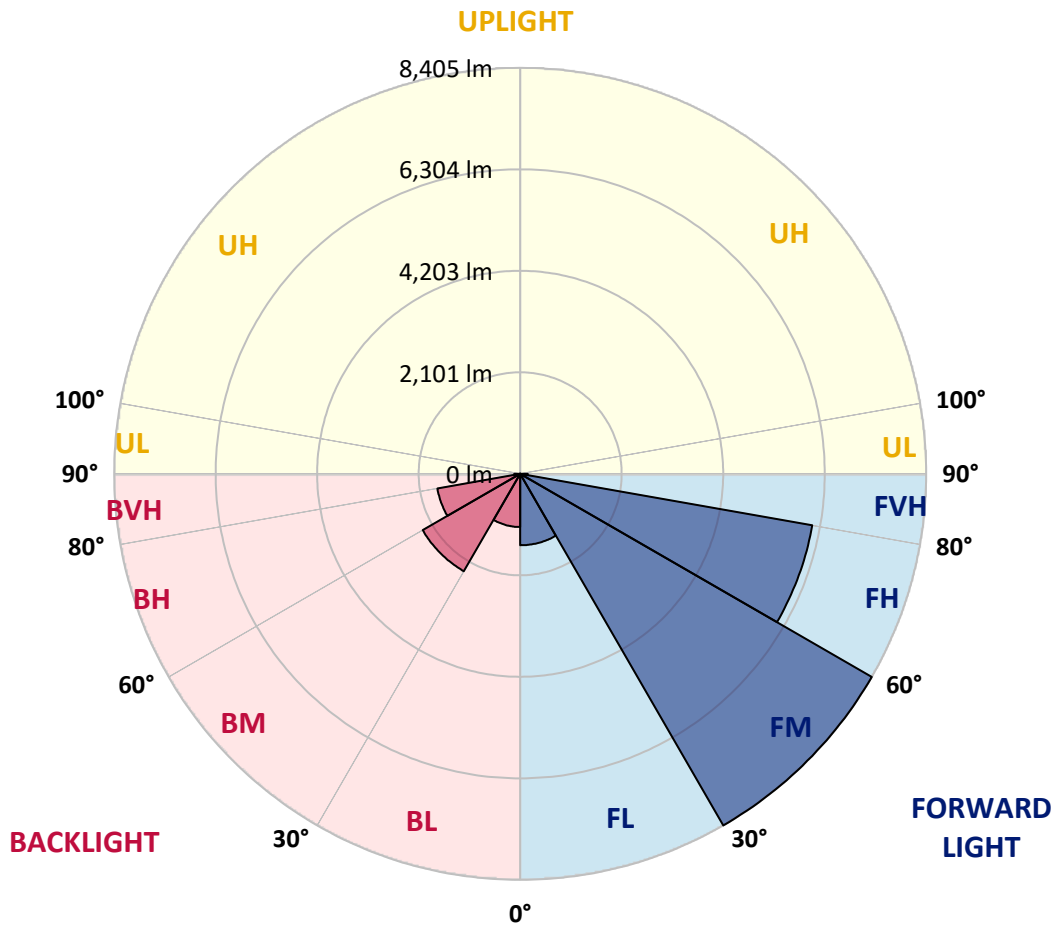
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1478.9	6.9			
FM (30°-60°)	8405.5	39.1			
FH (60°-80°)	6140.1	28.6			G3/7500
FVH (80°-90°)	157.2	0.7			G2/225
BL (0°-30°)	1101.4	5.1	B3/2500		
BM (30°-60°)	2329.3	10.8	B2/2500		
BH (60°-80°)	1740.0	8.1	B3/2500		G3/2500
BVH (80°-90°)	123.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7
2.5°	3223.9	3242.1	3236.4	3230.7	3230.7	3222.7	3221.6	3210.2	3201.1	3186.3
5°	3264.9	3284.3	3282.0	3286.5	3301.4	3304.8	3308.2	3301.4	3283.1	3264.9
7.5°	3228.4	3250.1	3256.9	3284.3	3329.8	3370.9	3401.6	3414.2	3397.1	3370.9
10°	3105.3	3129.3	3153.2	3218.2	3299.1	3395.9	3478.0	3527.0	3523.6	3498.5
12.5°	2855.8	2880.8	2932.1	3058.6	3206.8	3377.7	3530.4	3633.0	3668.3	3650.1
15°	2656.4	2678.0	2716.8	2846.7	3039.3	3299.1	3549.8	3749.2	3839.2	3829.0
17.5°	2650.7	2659.8	2683.7	2745.2	2893.4	3176.0	3529.3	3863.2	4035.2	4034.1
20°	2750.9	2754.4	2768.0	2780.6	2864.9	3082.6	3476.8	3957.7	4255.2	4255.2
22.5°	2890.0	2887.7	2901.4	2890.0	2931.0	3074.6	3443.8	4040.9	4500.2	4518.4
25°	3098.5	3087.1	3083.7	3057.5	3065.5	3148.7	3480.3	4135.5	4790.8	4828.4
27.5°	3376.6	3358.3	3345.8	3285.4	3264.9	3301.4	3591.9	4249.5	5114.4	5179.4
30°	3739.0	3705.9	3687.7	3582.8	3508.8	3514.5	3760.6	4401.0	5452.9	5557.7
32.5°	4233.5	4182.2	4133.2	3961.2	3825.6	3781.1	3978.3	4610.7	5819.8	5987.3
35°	4787.4	4746.3	4693.9	4428.4	4219.9	4117.3	4272.3	4903.6	6249.4	6515.0
37.5°	5320.7	5285.4	5310.4	4952.6	4683.7	4534.4	4657.4	5296.8	6779.3	7171.4
40°	5872.2	5844.9	5848.3	5506.4	5193.1	5025.5	5124.7	5790.2	7386.7	7952.0
42.5°	6471.7	6451.1	6382.8	6079.6	5727.5	5571.4	5662.6	6360.0	8038.6	8840.8
45°	7142.9	7130.3	7066.5	6718.9	6315.5	6140.0	6263.1	6989.0	8693.8	9677.3
47.5°	7722.9	7733.2	7725.2	7432.3	7014.1	6756.5	6903.6	7645.4	9303.5	10463.6
50°	8002.1	8055.7	8134.3	8043.1	7783.3	7521.2	7549.7	8279.0	9884.7	11200.9
52.5°	7856.2	7957.7	8171.9	8317.8	8418.1	8363.4	8287.0	8908.1	10431.7	11866.4
55°	7312.7	7455.1	7810.7	8162.8	8674.5	9072.2	9172.5	9605.5	10965.0	12452.2
57.5°	6322.4	6553.7	6872.8	7585.0	8446.5	9415.2	10204.9	10573.0	11530.2	13077.8
60°	4624.4	4934.4	5330.9	6390.7	7648.8	9231.7	11083.5	12059.0	12333.6	13888.0
62.5°	2959.5	3150.9	3515.6	4513.9	5960.0	8291.6	11352.5	13916.5	13695.4	15216.8
65°	2026.2	2149.2	2483.1	3043.8	3852.9	6171.9	10632.2	15309.1	15858.3	17322.7
67.5°	1472.3	1565.8	1850.7	2341.8	2510.5	3652.3	8250.5	15245.3	17960.9	19492.5
70°	1073.5	1139.6	1378.9	1850.7	1931.6	2031.9	4998.2	12959.3	17915.3	20069.1
72.5°	795.4	841.0	1001.7	1435.9	1563.5	1372.1	2474.0	9418.6	15394.5	18152.3
75°	575.5	609.7	728.2	1098.6	1251.3	1045.0	1234.2	5504.2	10738.2	12769.0
77.5°	439.9	466.1	543.6	804.5	1001.7	784.0	765.8	2532.1	5091.6	5116.7
80°	353.3	370.4	412.5	566.4	768.1	586.9	499.1	1022.2	1609.1	1361.8
82.5°	259.8	288.3	348.7	397.7	549.3	404.5	304.3	516.2	612.0	526.5
85°	148.1	167.5	210.8	284.9	351.0	247.3	174.4	229.1	284.9	233.6
87.5°	52.4	68.4	74.1	111.7	152.7	102.6	67.2	66.1	93.4	69.5
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°
3148.7	0°	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7
3182.8	2.5°	3171.4	3165.7	3143.0	3112.2	3080.3	3049.5	3039.3	3017.6	3002.8	2994.8
3256.9	5°	3235.3	3217.0	3163.5	3095.1	3023.3	2945.8	2891.1	2841.0	2804.5	2770.3
3358.3	7.5°	3326.4	3294.5	3202.2	3082.6	2954.9	2826.1	2730.4	2657.5	2608.5	2576.6
3476.8	10°	3432.4	3383.4	3242.1	3063.2	2866.0	2681.4	2568.6	2505.9	2475.2	2458.1
3612.5	12.5°	3554.3	3484.8	3283.1	3018.7	2730.4	2519.6	2442.1	2423.9	2425.0	2426.2
3783.4	15°	3704.8	3607.9	3316.2	2921.9	2553.8	2395.4	2381.7	2411.3	2442.1	2456.9
3977.1	17.5°	3874.6	3737.8	3321.9	2762.3	2380.6	2315.6	2358.9	2422.7	2469.5	2490.0
4193.6	20°	4056.9	3870.0	3280.8	2536.7	2238.1	2250.7	2328.2	2410.2	2461.5	2487.7
4440.9	22.5°	4265.4	4011.3	3182.8	2299.7	2121.9	2180.0	2271.2	2350.9	2404.5	2430.7
4731.5	25°	4503.6	4169.7	3029.0	2100.2	2021.6	2100.2	2191.4	2257.5	2300.8	2324.7
5056.3	27.5°	4768.0	4334.9	2823.9	1941.8	1933.9	2018.2	2093.4	2144.7	2167.5	2185.7
5401.6	30°	5033.5	4485.4	2575.4	1822.2	1857.5	1937.3	1990.8	2013.6	2020.5	2023.9
5786.8	32.5°	5320.7	4615.3	2314.5	1723.0	1784.6	1858.6	1890.6	1900.8	1868.9	1847.3
6254.0	35°	5668.3	4754.3	2059.2	1644.4	1712.8	1776.6	1786.9	1777.7	1740.1	1695.7
6839.7	37.5°	6097.9	4927.5	1855.2	1588.6	1645.5	1687.7	1675.2	1672.9	1676.3	1623.9
7544.0	40°	6624.4	5153.2	1705.9	1545.3	1590.8	1600.0	1564.6	1584.0	1601.1	1521.3
8316.6	42.5°	7209.0	5425.5	1611.4	1515.6	1545.3	1523.6	1468.9	1490.6	1488.3	1383.4
9092.7	45°	7805.0	5721.8	1578.3	1494.0	1503.1	1459.8	1399.4	1405.1	1357.2	1262.7
9836.8	47.5°	8397.5	6039.8	1598.8	1475.8	1450.7	1401.7	1355.0	1329.9	1259.2	1188.6
10550.2	50°	8978.7	6373.7	1674.0	1439.3	1378.9	1350.4	1316.2	1271.8	1196.6	1136.2
11224.8	52.5°	9517.7	6709.8	1758.4	1378.9	1288.9	1306.0	1284.3	1233.0	1158.9	1097.4
11863.0	55°	10028.3	7046.0	1791.4	1295.7	1204.5	1267.2	1254.7	1160.1	1071.2	1021.1
12530.8	57.5°	10584.4	7450.6	1754.9	1189.7	1136.2	1222.8	1174.9	1070.1	1018.8	981.2
13400.3	60°	11354.7	8085.3	1676.3	1058.7	1071.2	1156.7	1074.6	1031.3	975.5	933.3
14704.0	62.5°	12634.5	9269.3	1549.8	928.8	994.9	1058.7	1026.8	983.5	926.5	885.5
16933.0	65°	14526.2	10914.9	1311.7	827.3	909.4	962.9	975.5	932.2	872.9	829.6
18886.2	67.5°	16121.6	11947.3	992.6	743.0	821.6	885.5	920.8	878.6	815.9	773.8
19343.2	70°	16033.8	11197.5	757.8	659.8	744.1	809.1	854.7	821.6	754.4	714.5
17570.0	72.5°	14241.3	9367.3	613.1	575.5	665.5	729.3	784.0	759.0	690.6	651.8
12871.5	75°	10462.5	6649.4	490.0	490.0	567.5	646.1	706.5	690.6	627.9	600.6
5403.9	77.5°	4410.2	2789.7	384.0	406.8	471.8	555.0	630.2	635.9	581.2	615.4
1429.0	80°	1172.6	769.2	292.9	320.2	370.4	458.1	548.1	545.9	486.6	454.7
531.0	82.5°	446.7	303.1	208.5	225.6	267.8	351.0	434.2	447.9	388.6	336.2
208.5	85°	172.1	129.9	128.8	135.6	156.1	232.5	328.2	339.6	292.9	248.4
58.1	87.5°	44.4	38.7	47.9	45.6	71.8	124.2	188.0	194.9	178.9	103.7
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>
3148.7
3003.9
2784.0
2583.4
2462.6
2428.4
2455.8
2494.5
2494.5
2437.6
2331.6
2192.5
2031.9
1854.1
1698.0
1627.3
1523.6
1382.3
1266.1
1188.6
1131.6
1098.6
1016.5
977.8
931.0
885.5
831.9
774.9
717.9
651.8
592.6
558.4
422.8
336.2
256.4
148.1
0.0

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