

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: P941035

Luminaire Tested: **GALN-SB4B-850-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941035  
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-SB4B-850-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21389 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

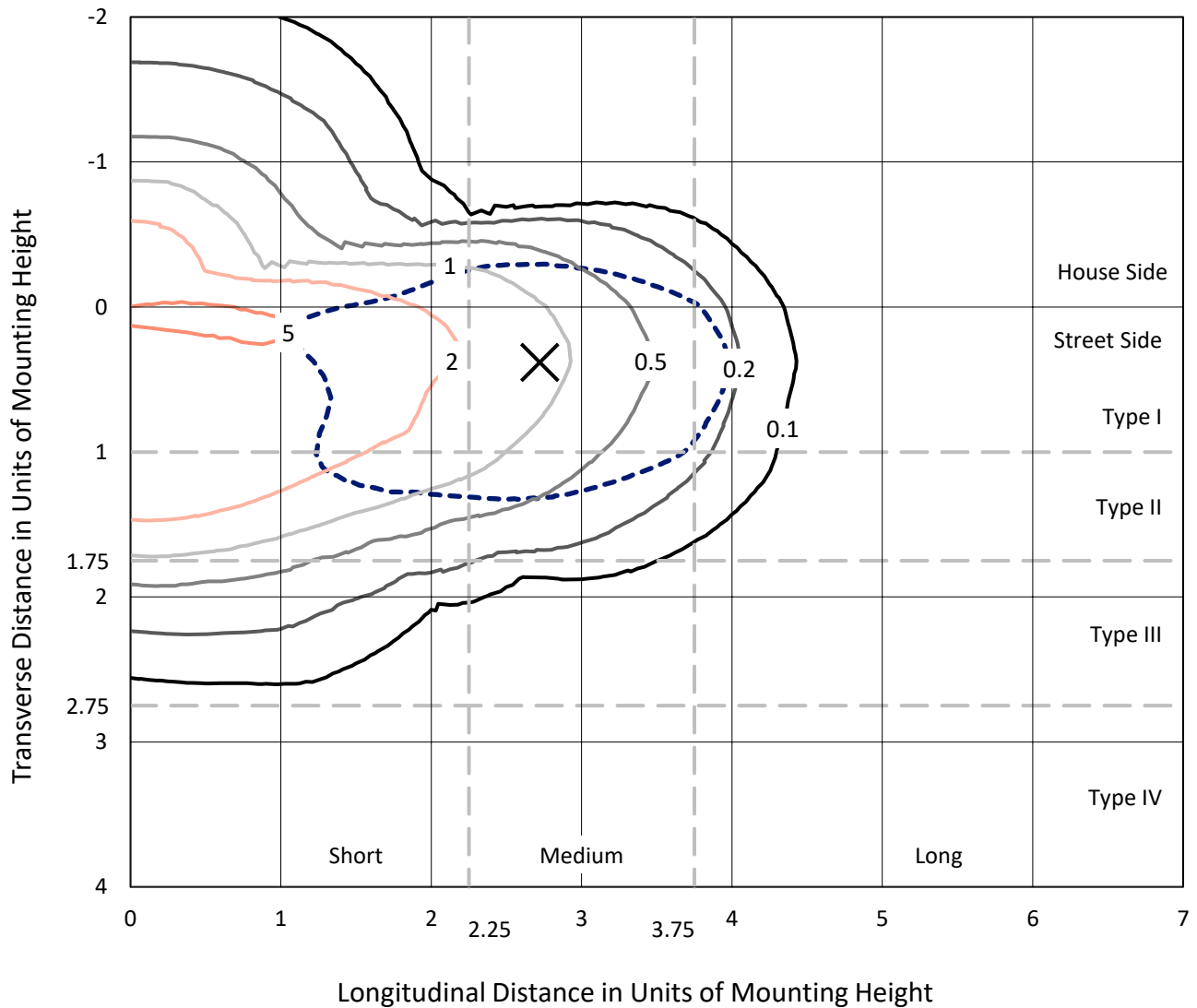
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P941035  
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### Iso-Footcandle Lines of Horizontal Illumination

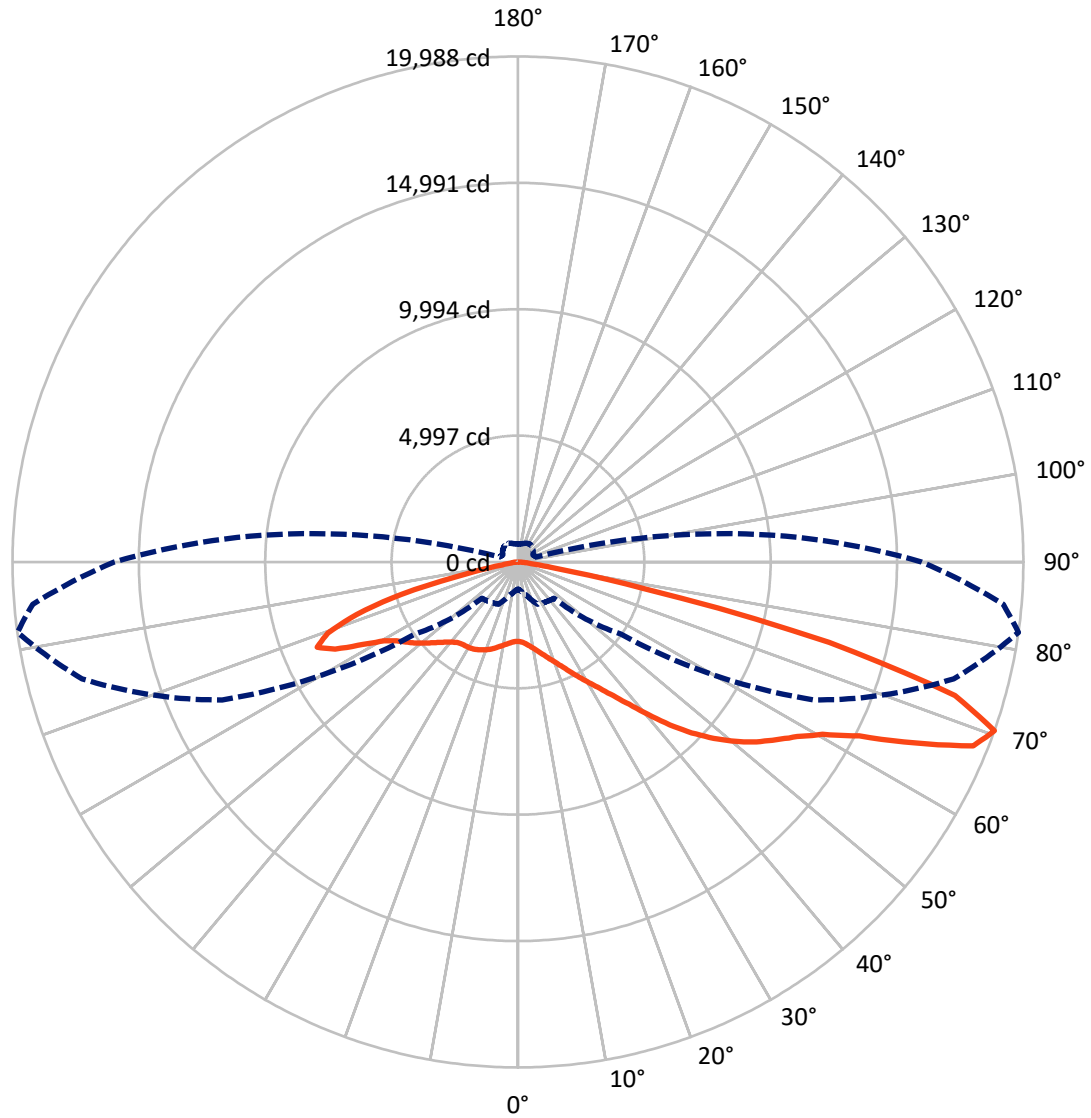
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P941035  
CATALOG NUMBER: GALN-SB4B-850-U-T2

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SB4B-850-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5272.9	0.0	5272.9
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	16116.1	0.0	16116.1
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	21389.0	0.0	21389.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.1	1.4
10°-20°	850.7	4.0
20°-30°	1423.1	6.7
30°-40°	2223.2	10.4
40°-50°	3540.7	16.6
50°-60°	4927.4	23.0
60°-70°	5154.2	24.1
70°-80°	2693.9	12.6
80°-90°	279.7	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°	21389.0	100.0
0°-180°	21389.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P941035

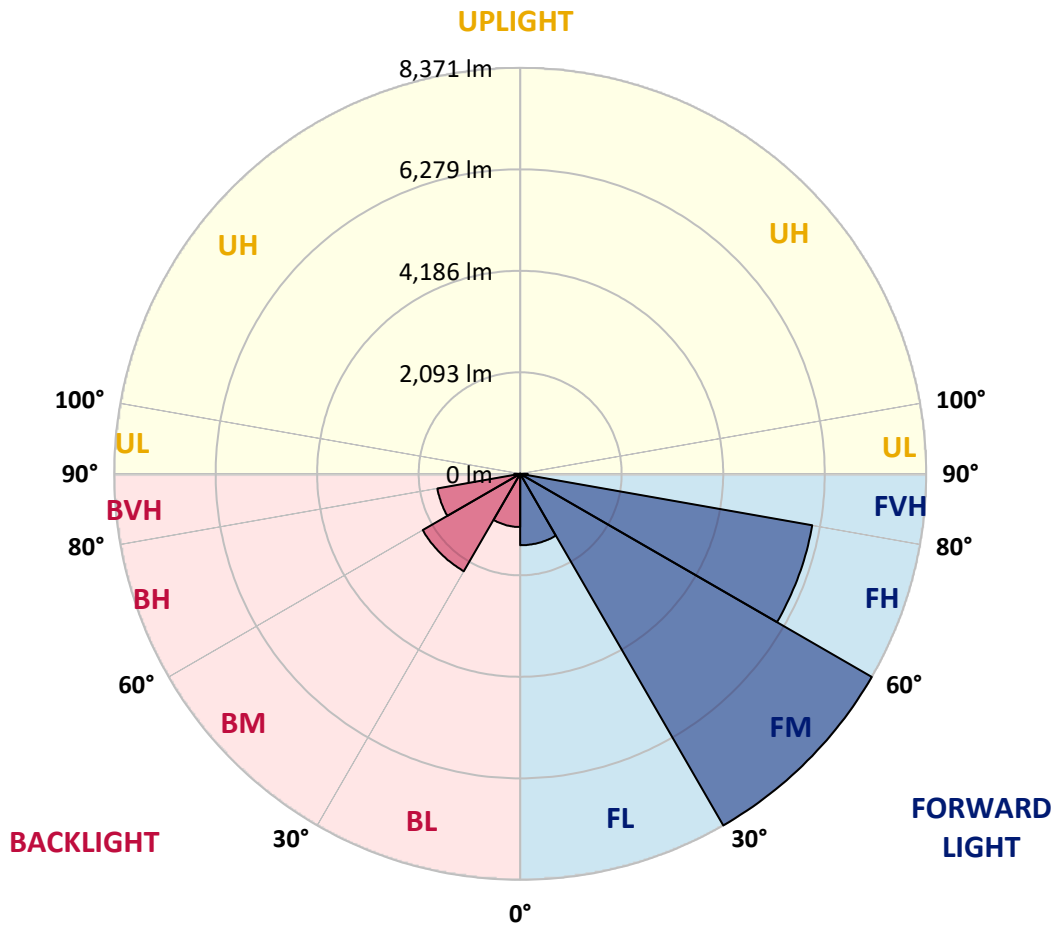
CATALOG NUMBER: GALN-SB4B-850-U-T2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1472.9	6.9			
FM (30°-60°)	8371.4	39.1			
FH (60°-80°)	6115.2	28.6			G3/7500
FVH (80°-90°)	156.6	0.7			G2/225
BL (0°-30°)	1097.0	5.1	B3/2500		
BM (30°-60°)	2319.9	10.8	B2/2500		
BH (60°-80°)	1732.9	8.1	B3/2500		G3/2500
BVH (80°-90°)	123.1	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



REPORT NUMBER: P941035

CATALOG NUMBER: GALN-SB4B-850-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3135.9	3135.9	3135.9	3135.9	3135.9	3135.9	3135.9	3135.9	3135.9	3135.9
2.5°	3210.8	3229.0	3223.3	3217.6	3217.6	3209.7	3208.5	3197.2	3188.1	3173.3
5°	3251.7	3271.0	3268.7	3273.2	3288.0	3291.4	3294.8	3288.0	3269.8	3251.7
7.5°	3215.3	3236.9	3243.7	3271.0	3316.4	3357.2	3387.9	3400.3	3383.3	3357.2
10°	3092.8	3116.6	3140.4	3205.1	3285.7	3382.2	3463.9	3512.7	3509.3	3484.3
12.5°	2844.2	2869.2	2920.3	3046.2	3193.8	3364.0	3516.1	3618.3	3653.4	3635.3
15°	2645.6	2667.2	2705.7	2835.1	3026.9	3285.7	3535.4	3734.0	3823.7	3813.5
17.5°	2639.9	2649.0	2672.8	2734.1	2881.7	3163.1	3515.0	3847.5	4018.9	4017.8
20°	2739.8	2743.2	2756.8	2769.3	2853.3	3070.1	3462.8	3941.7	4237.9	4237.9
22.5°	2878.3	2876.0	2889.6	2878.3	2919.1	3062.1	3429.8	4024.6	4482.0	4500.1
25°	3086.0	3074.6	3071.2	3045.1	3053.0	3135.9	3466.2	4118.8	4771.4	4808.8
27.5°	3362.9	3344.7	3332.2	3272.1	3251.7	3288.0	3577.4	4232.3	5093.7	5158.4
30°	3723.8	3690.9	3672.7	3568.3	3494.5	3500.2	3745.4	4383.2	5430.8	5535.2
32.5°	4216.4	4165.3	4116.5	3945.1	3810.1	3765.8	3962.1	4592.0	5796.2	5963.1
35°	4768.0	4727.1	4674.9	4410.5	4202.8	4100.6	4255.0	4883.7	6224.1	6488.6
37.5°	5299.1	5263.9	5288.9	4932.5	4664.7	4516.0	4638.6	5275.3	6751.9	7142.3
40°	5848.4	5821.2	5824.6	5484.1	5172.0	5005.2	5103.9	5766.7	7356.8	7919.8
42.5°	6445.4	6425.0	6356.9	6055.0	5704.3	5548.8	5639.6	6334.2	8006.0	8805.0
45°	7113.9	7101.4	7037.9	6691.7	6289.9	6115.2	6237.7	6960.7	8658.6	9638.1
47.5°	7691.6	7701.8	7693.9	7402.2	6985.7	6729.2	6875.6	7614.4	9265.8	10421.2
50°	7969.7	8023.0	8101.3	8010.5	7751.8	7490.7	7519.1	8245.5	9844.6	11155.5
52.5°	7824.4	7925.4	8138.8	8284.1	8384.0	8329.5	8253.4	8872.0	10389.4	11818.3
55°	7283.0	7424.9	7779.0	8129.7	8639.3	9035.4	9135.3	9566.6	10920.6	12401.7
57.5°	6296.8	6527.2	6844.9	7554.3	8412.3	9377.0	10163.6	10530.2	11483.5	13024.8
60°	4605.7	4914.4	5309.3	6364.9	7617.9	9194.3	11038.6	12010.1	12283.7	13831.8
62.5°	2947.5	3138.2	3501.4	4495.6	5935.8	8258.0	11306.5	13860.1	13640.0	15155.1
65°	2018.0	2140.5	2473.1	3031.5	3837.3	6146.9	10589.2	15247.1	15794.1	17252.5
67.5°	1466.4	1559.4	1843.2	2332.3	2500.3	3637.5	8217.1	15183.5	17888.1	19413.5
70°	1069.1	1135.0	1373.3	1843.2	1923.8	2023.6	4977.9	12906.8	17842.7	19987.8
72.5°	792.2	837.6	997.6	1430.0	1557.2	1366.5	2464.0	9380.4	15332.2	18078.8
75°	573.2	607.2	725.2	1094.1	1246.2	1040.8	1229.2	5481.9	10694.7	12717.2
77.5°	438.1	464.2	541.4	801.3	997.6	780.9	762.7	2521.9	5071.0	5096.0
80°	351.8	368.9	410.9	564.1	765.0	584.5	497.1	1018.1	1602.6	1356.3
82.5°	258.8	287.1	347.3	396.1	547.1	402.9	303.0	514.1	609.5	524.4
85°	147.5	166.8	210.0	283.7	349.6	246.3	173.6	228.1	283.7	232.7
87.5°	52.2	68.1	73.8	111.2	152.1	102.1	67.0	65.8	93.1	69.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941035  
 CATALOG NUMBER: GALN-SB4B-850-U-T2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3135.9	0°	3135.9	3135.9	3135.9	3135.9	3135.9	3135.9	3135.9	3135.9	3135.9	3135.9
3169.9	2.5°	3158.6	3152.9	3130.2	3099.6	3067.8	3037.2	3026.9	3005.4	2990.6	2982.7
3243.7	5°	3222.2	3204.0	3150.6	3082.6	3011.0	2933.9	2879.4	2829.5	2793.1	2759.1
3344.7	7.5°	3312.9	3281.2	3189.2	3070.1	2943.0	2814.7	2719.4	2646.7	2597.9	2566.1
3462.8	10°	3418.5	3369.7	3229.0	3050.8	2854.4	2670.6	2558.2	2495.8	2465.1	2448.1
3597.8	12.5°	3539.9	3470.7	3269.8	3006.5	2719.4	2509.4	2432.2	2414.1	2415.2	2416.3
3768.1	15°	3689.8	3593.3	3302.7	2910.0	2543.4	2385.7	2372.1	2401.6	2432.2	2447.0
3961.0	17.5°	3858.9	3722.7	3308.4	2751.1	2370.9	2306.2	2349.4	2412.9	2459.5	2479.9
4176.7	20°	4040.5	3854.3	3267.6	2526.4	2229.1	2241.5	2318.7	2400.4	2451.5	2477.6
4422.9	22.5°	4248.2	3995.1	3169.9	2290.3	2113.3	2171.2	2262.0	2341.4	2394.8	2420.9
4712.4	25°	4485.4	4152.8	3016.7	2091.7	2013.4	2091.7	2182.5	2248.4	2291.5	2315.3
5035.8	27.5°	4748.7	4317.4	2812.4	1934.0	1926.0	2010.0	2084.9	2136.0	2158.7	2176.9
5379.7	30°	5013.1	4467.2	2565.0	1814.8	1850.0	1929.4	1982.8	2005.5	2012.3	2015.7
5763.3	32.5°	5299.1	4596.6	2305.1	1716.1	1777.3	1851.1	1882.9	1893.1	1861.3	1839.8
6228.7	35°	5645.3	4735.1	2050.9	1637.7	1705.8	1769.4	1779.6	1770.5	1733.1	1688.8
6812.0	37.5°	6073.2	4907.6	1847.7	1582.1	1638.9	1680.9	1668.4	1666.1	1669.5	1617.3
7513.4	40°	6597.5	5132.3	1699.0	1539.0	1584.4	1593.5	1558.3	1577.6	1594.6	1515.2
8282.9	42.5°	7179.8	5403.5	1604.8	1509.5	1539.0	1517.4	1463.0	1484.5	1482.3	1377.8
9055.8	45°	7773.3	5698.6	1571.9	1487.9	1497.0	1453.9	1393.7	1399.4	1351.7	1257.5
9797.0	47.5°	8363.5	6015.3	1592.3	1469.8	1444.8	1396.0	1349.5	1324.5	1254.1	1183.8
10507.5	50°	8942.4	6347.8	1667.3	1433.5	1373.3	1344.9	1310.9	1266.6	1191.7	1131.6
11179.4	52.5°	9479.2	6682.6	1751.2	1373.3	1283.6	1300.7	1279.1	1228.0	1154.3	1093.0
11814.9	55°	9987.6	7017.5	1784.2	1290.4	1199.7	1262.1	1249.6	1155.4	1066.9	1016.9
12480.0	57.5°	10541.5	7420.4	1747.8	1184.9	1131.6	1217.8	1170.1	1065.7	1014.7	977.2
13346.0	60°	11308.7	8052.5	1669.5	1054.4	1066.9	1152.0	1070.3	1027.1	971.5	929.5
14644.4	62.5°	12583.3	9231.8	1543.5	925.0	990.8	1054.4	1022.6	979.5	922.7	881.9
16864.4	65°	14467.3	10870.6	1306.3	824.0	905.7	959.0	971.5	928.4	869.4	826.3
18809.7	67.5°	16056.3	11898.9	988.6	740.0	818.3	881.9	917.0	875.1	812.6	770.6
19264.8	70°	15968.9	11152.1	754.7	657.1	741.1	805.8	851.2	818.3	751.3	711.6
17498.8	72.5°	14183.6	9329.4	610.6	573.2	662.8	726.4	780.9	755.9	687.8	649.2
12819.4	75°	10420.1	6622.5	488.0	488.0	565.2	643.5	703.7	687.8	625.4	598.1
5382.0	77.5°	4392.3	2778.4	382.5	405.2	469.9	552.7	627.6	633.3	578.8	612.9
1423.2	80°	1167.9	766.1	291.7	318.9	368.9	456.3	545.9	543.6	484.6	452.8
528.9	82.5°	444.9	301.9	207.7	224.7	266.7	349.6	432.4	446.0	387.0	334.8
207.7	85°	171.4	129.4	128.3	135.1	155.5	231.5	326.9	338.2	291.7	247.4
57.9	87.5°	44.3	38.6	47.7	45.4	71.5	123.7	187.3	194.1	178.2	103.3
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>
3135.9
2991.8
2772.7
2573.0
2452.6
2418.6
2445.8
2484.4
2484.4
2427.7
2322.1
2183.7
2023.6
1846.6
1691.1
1620.7
1517.4
1376.7
1260.9
1183.8
1127.0
1094.1
1012.4
973.8
927.3
881.9
828.5
771.8
715.0
649.2
590.2
556.1
421.1
334.8
255.4
147.5
0.0

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