

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: P954645

Luminaire Tested: **GALN-SB7D-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63553 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

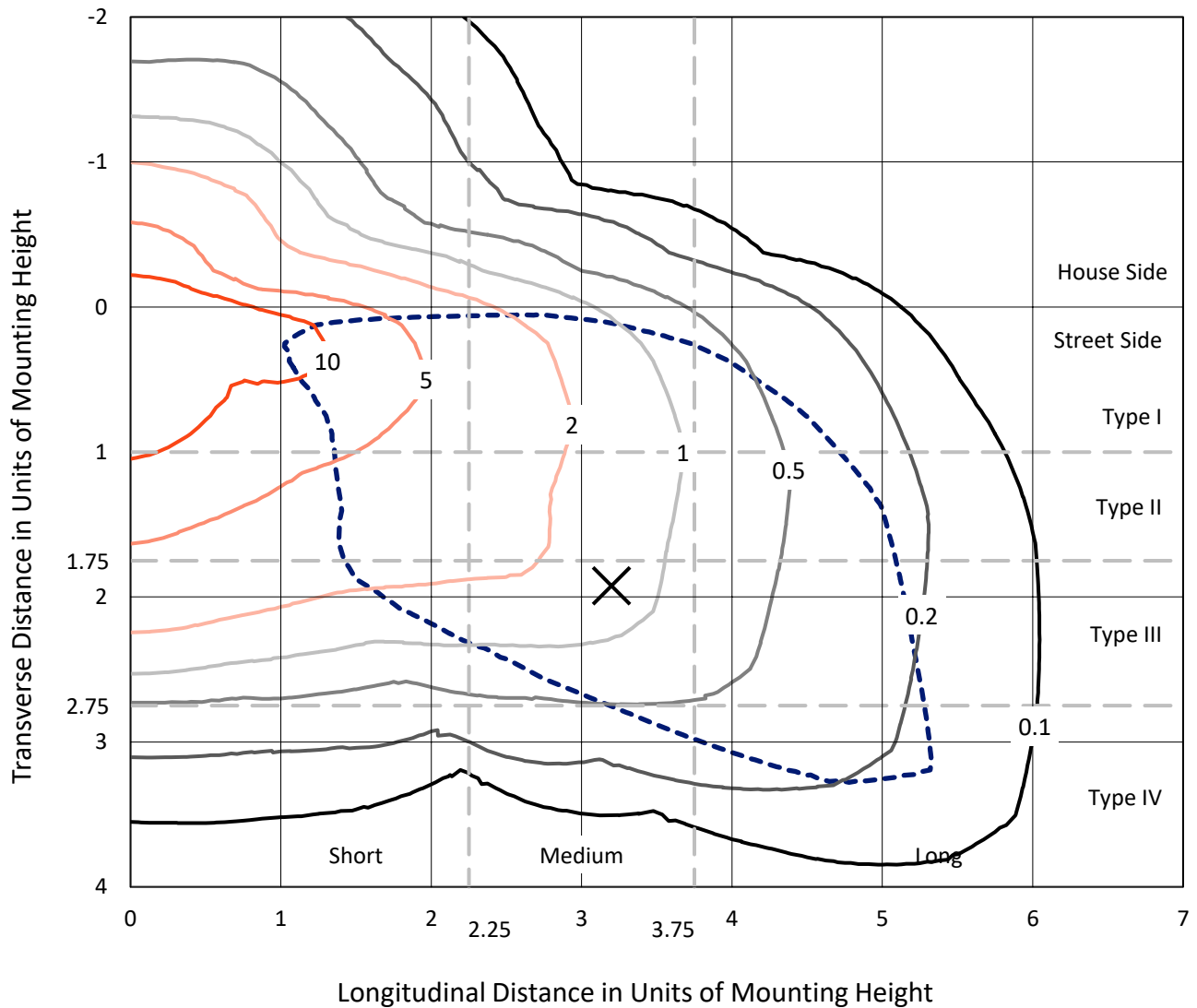
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

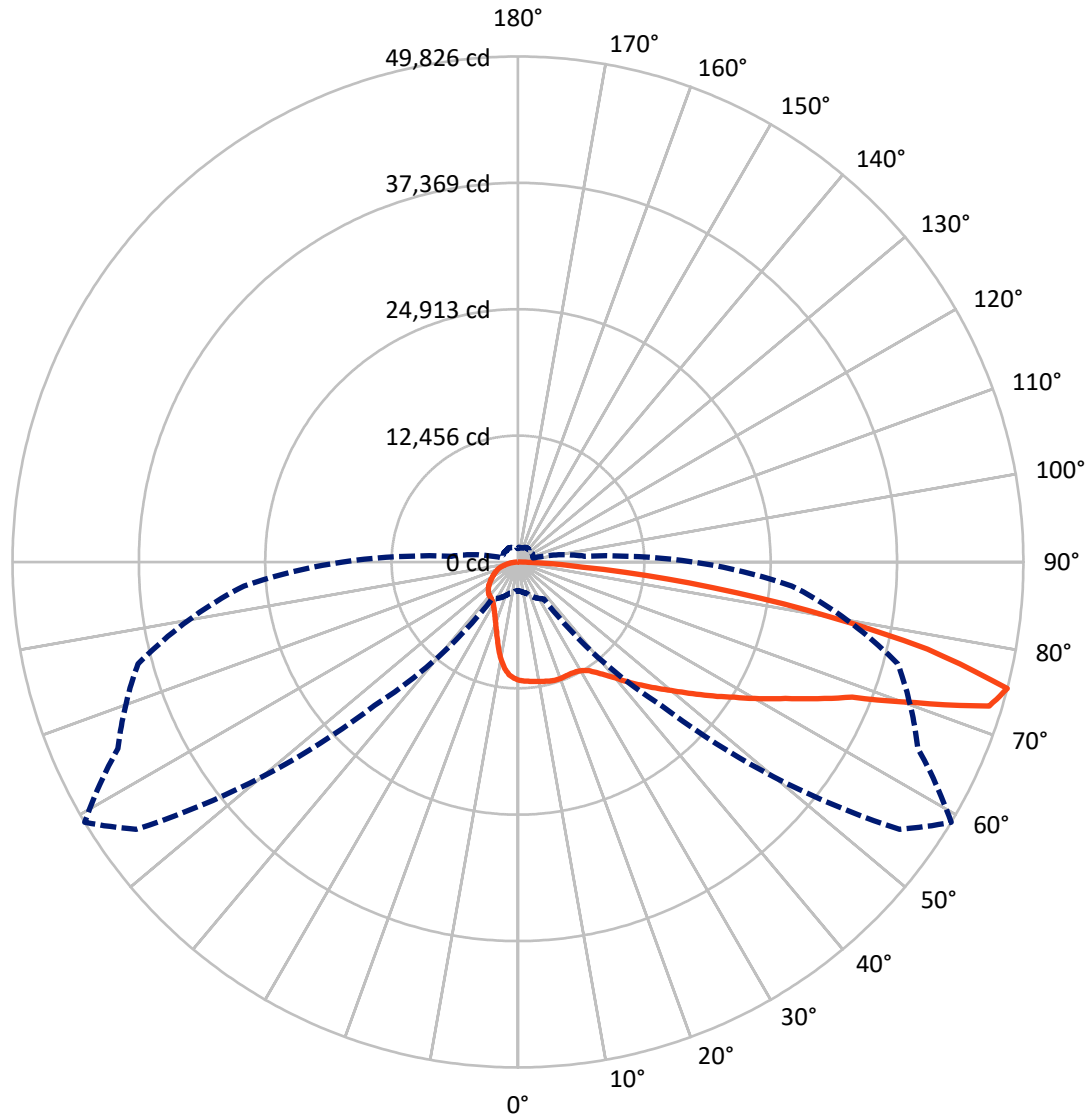
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11919.8	0.0	11919.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	51633.2	0.0	51633.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	63553.0	0.0	63553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1046.0	1.6
10°-20°	2673.5	4.2
20°-30°	4060.9	6.4
30°-40°	6036.4	9.5
40°-50°	8977.2	14.1
50°-60°	12185.4	19.2
60°-70°	14876.4	23.4
70°-80°	11674.8	18.4
80°-90°	2022.4	3.2
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°	63553.0	100.0
0°-180°	63553.0	100.0

Coefficient of Utilization



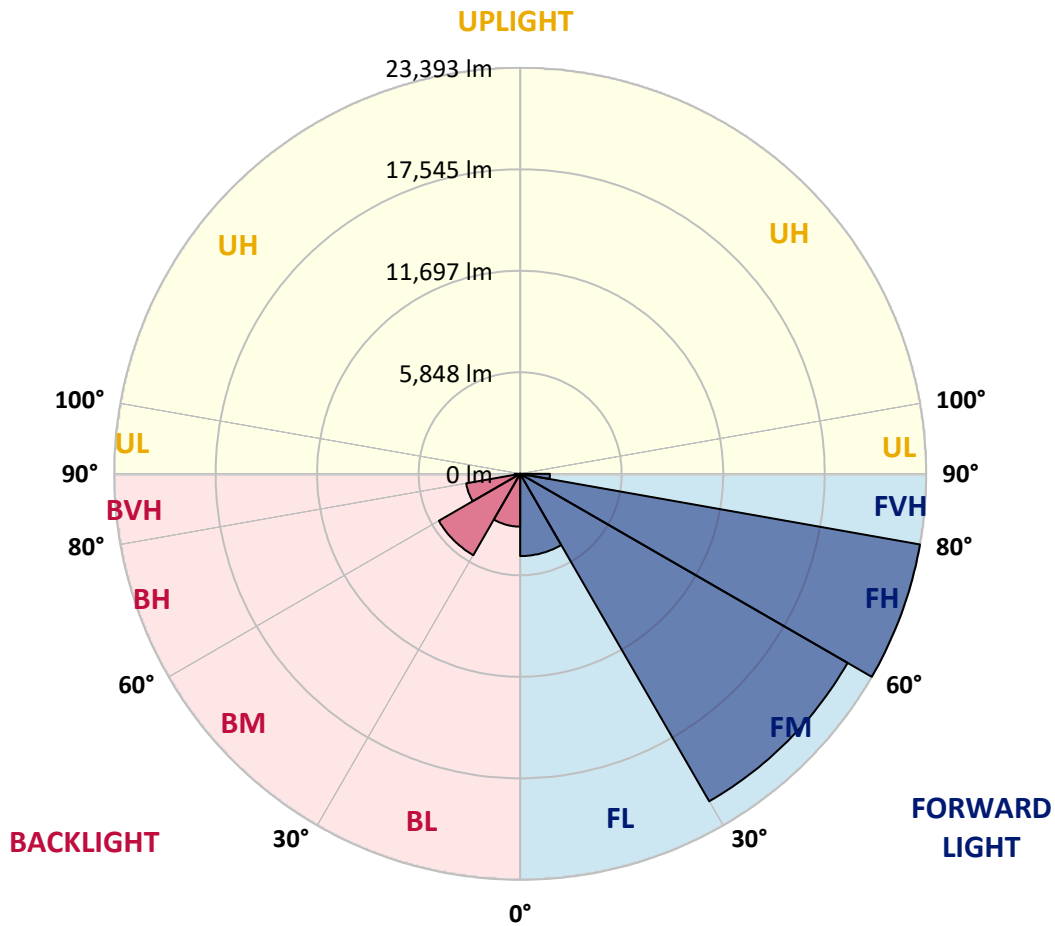
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4738.6	7.5			
FM (30°-60°)	21788.6	34.3			
FH (60°-80°)	23393.2	36.8			G5
FVH (80°-90°)	1712.8	2.7			G5
BL (0°-30°)	3041.8	4.8	B4/5000		
BM (30°-60°)	5410.4	8.5	B4/8500		
BH (60°-80°)	3158.0	5.0	B4/5000		G4/5000
BVH (80°-90°)	309.6	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	11665.0	11665.0	11665.0	11665.0	11665.0	11665.0	11665.0	11665.0	11665.0	11665.0
2.5°	11764.2	11723.1	11764.2	11747.1	11740.2	11726.6	11730.0	11753.9	11740.2	11757.3
5°	11685.5	11661.6	11702.6	11692.4	11736.8	11743.6	11788.1	11815.4	11832.5	11836.0
7.5°	11555.6	11531.7	11589.8	11637.7	11733.4	11760.7	11853.0	11897.5	11921.4	11962.4
10°	11080.4	11070.1	11213.7	11394.9	11620.6	11760.7	11900.9	11976.1	12013.7	12123.1
12.5°	10239.4	10253.0	10441.1	10789.8	11241.1	11692.4	11955.6	12065.0	12123.1	12259.9
15°	9435.9	9432.5	9637.7	10010.3	10642.8	11391.5	11983.0	12171.0	12270.1	12471.9
17.5°	8971.0	8957.3	9100.9	9384.7	9972.7	10930.0	11914.6	12229.1	12441.1	12694.1
20°	8885.5	8858.2	8933.4	9073.5	9490.6	10424.0	11736.8	12229.1	12577.8	12906.0
22.5°	9196.6	9152.2	9121.4	9104.3	9288.9	10006.9	11535.1	12188.1	12779.5	13210.3
25°	9822.3	9753.9	9596.6	9442.8	9388.1	9818.8	11357.3	12177.8	13080.4	13620.6
27.5°	10834.2	10748.8	10430.8	10061.6	9730.0	9914.6	11278.7	12239.4	13412.0	14054.8
30°	12088.9	11996.6	11596.6	11029.1	10434.2	10270.1	11377.8	12420.6	13836.0	14632.5
32.5°	13213.7	13111.2	12769.3	12191.5	11388.1	10885.5	11692.4	12765.9	14502.6	15436.0
35°	14212.0	14092.4	13784.7	13251.3	12557.3	11750.5	12259.9	13377.8	15449.6	16742.0
37.5°	15189.8	15049.6	14714.6	14150.5	13665.0	12902.6	13042.8	14164.2	16707.8	18328.3
40°	16283.8	16082.1	15675.3	15118.0	14646.2	14253.1	14071.9	15128.3	17986.4	20099.2
42.5°	17343.7	17152.2	16666.7	16191.5	15600.1	15487.3	15265.0	16256.5	19384.7	22044.5
45°	18485.6	18256.5	17668.5	17066.7	16694.1	16307.8	16420.6	17384.7	20755.7	24027.5
47.5°	19555.6	19299.2	18605.2	17935.1	17730.0	16998.4	17480.4	18625.7	22181.3	26037.7
50°	20133.4	19880.4	19302.7	18697.5	18536.8	17849.7	18629.1	19989.8	23675.3	28041.2
52.5°	20615.5	20342.0	19586.4	19251.4	19203.5	18776.2	20044.5	21548.8	25169.3	29812.1
55°	21128.3	20824.0	19859.9	19559.1	19777.9	19815.5	21723.2	23316.3	26748.8	31538.6
57.5°	21719.8	21333.4	20123.2	19818.9	20338.6	21032.6	23651.4	25148.8	28301.0	33138.6
60°	22277.0	21887.3	20629.2	20232.6	20943.7	22444.5	25863.4	27367.6	30058.3	34564.3
62.5°	22386.4	22065.1	21032.6	21029.2	21764.2	24092.4	28482.2	29607.0	31593.3	35972.8
65°	20492.4	20290.7	19678.7	20998.4	22940.3	26465.1	31398.4	32471.9	33545.5	37203.6
67.5°	15596.7	15624.0	15579.6	18126.6	21989.8	29873.6	35620.7	35538.6	35955.7	38584.8
70°	7131.7	7292.3	8338.5	12512.9	17617.2	30266.8	42601.9	41538.7	38981.4	40372.8
72.5°	3853.0	3976.1	4403.4	6061.6	10591.5	26909.5	47819.0	48574.6	43005.3	41576.3
75°	2827.4	2895.7	3193.2	3853.0	4447.9	20000.1	45948.9	49825.9	43507.9	38769.4
77.5°	2116.2	2147.0	2389.8	3053.0	2276.9	10543.6	36714.7	41265.1	37244.6	31853.1
80°	1535.0	1569.2	1750.4	2290.6	1596.6	3856.4	25210.4	28964.2	25507.8	20304.4
82.5°	1059.8	1073.5	1152.1	1559.0	1114.5	1497.4	14304.3	16984.7	14239.4	7124.8
85°	639.3	656.4	690.6	909.4	632.5	711.1	6174.4	6386.4	4256.4	1702.6
87.5°	263.2	280.3	307.7	382.9	249.6	198.3	1018.8	1278.6	796.6	499.1
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°
11665.0	0°	11665.0	11665.0	11665.0	11665.0	11665.0	11665.0	11665.0	11665.0	11665.0	11665.0
11699.2	2.5°	11682.1	11658.2	11593.2	11504.3	11422.3	11319.7	11275.3	11237.7	11203.5	11138.5
11791.5	5°	11753.9	11688.9	11514.6	11288.9	11032.5	10752.2	10478.7	10290.6	10130.0	10010.3
11897.5	7.5°	11863.3	11740.2	11422.3	10960.7	10372.7	9771.0	9227.4	8841.1	8550.5	8444.5
12047.9	10°	11976.1	11829.1	11275.3	10461.6	9446.2	8519.7	7798.3	7401.7	7169.3	7094.1
12225.7	12.5°	12109.5	11894.1	11046.2	9767.6	8410.3	7394.9	6765.8	6533.4	6413.7	6372.7
12444.5	15°	12304.3	11948.8	10700.9	8899.2	7422.3	6574.4	6167.6	6006.9	5945.3	5941.9
12670.1	17.5°	12451.3	11959.0	10164.1	7969.3	6663.3	6078.7	5743.6	5682.1	5723.1	5784.6
12892.4	20°	12615.4	11866.7	9459.9	7121.4	6129.9	5644.5	5504.3	5545.3	5644.5	5733.4
13186.4	22.5°	12731.7	11699.2	8608.6	6461.6	5668.4	5394.9	5388.1	5473.5	5528.2	5572.7
13531.7	25°	12834.2	11415.4	7706.0	5907.7	5288.9	5244.5	5319.7	5292.3	5254.7	5292.3
13877.0	27.5°	12909.5	10967.6	6899.2	5422.2	5022.2	5141.9	5097.5	5035.9	5032.5	5053.0
14283.8	30°	12885.5	10369.3	6235.9	4960.7	4834.2	4950.5	4844.5	4834.2	4824.0	4834.2
14895.8	32.5°	12885.5	9688.9	5726.5	4642.8	4714.6	4670.1	4659.9	4635.9	4594.9	4591.5
15726.6	35°	12957.3	9008.6	5288.9	4471.8	4615.4	4509.4	4516.3	4458.1	4372.7	4331.6
16827.4	37.5°	13104.3	8461.6	4854.7	4389.8	4441.0	4437.6	4410.3	4311.1	4160.7	4030.8
18201.8	40°	13459.9	8300.9	4557.3	4352.2	4359.0	4400.0	4328.2	4136.8	3794.9	3582.9
19596.7	42.5°	14017.2	8571.0	4492.3	4259.8	4304.3	4345.3	4205.1	3760.7	3518.0	3391.5
21059.9	45°	14724.9	9042.8	4632.5	4126.5	4174.4	4246.2	3829.1	3617.1	3507.7	3511.1
22509.5	47.5°	15620.6	9538.5	4892.3	4010.3	3986.3	4027.4	3579.5	3449.6	3299.2	3336.8
23901.0	50°	16656.5	10041.1	5138.5	3853.0	3777.8	3644.5	3418.8	3295.7	3104.3	3015.4
25244.6	52.5°	17777.9	10526.5	5237.6	3661.6	3552.2	3398.3	3309.4	3159.0	2926.5	2779.5
26512.9	55°	18841.1	10967.6	5128.2	3432.5	3326.5	3206.9	3193.2	3100.9	2851.3	2646.2
27641.2	57.5°	19846.2	11336.8	4854.7	3200.0	3097.5	3025.7	3118.0	3073.5	2759.0	2495.7
28707.8	60°	20697.5	11589.8	4458.1	2964.1	2892.3	2854.7	2994.9	2981.2	2629.1	2335.1
29665.1	62.5°	21374.5	11688.9	4020.5	2738.5	2721.4	2653.0	2823.9	2823.9	2465.0	2177.8
30506.1	65°	21904.4	11593.2	3576.1	2516.3	2550.4	2447.9	2615.4	2594.9	2290.6	2037.6
31473.7	67.5°	22372.8	11278.7	3083.8	2297.4	2376.1	2246.2	2396.6	2348.7	2099.2	1897.4
32311.3	70°	22581.3	10547.1	2523.1	2078.6	2174.4	2047.9	2177.8	2088.9	1883.8	1747.0
31391.6	72.5°	20906.1	8765.9	1986.3	1849.6	1931.6	1829.1	1941.9	1839.3	1651.3	1589.8
27107.8	75°	17295.8	6577.8	1528.2	1600.0	1661.5	1582.9	1658.1	1582.9	1412.0	1456.4
20024.0	77.5°	12560.7	4441.0	1169.2	1336.8	1364.1	1323.1	1388.0	1302.6	1148.7	1138.5
9979.5	80°	6246.2	2601.7	916.2	1056.4	1046.2	1018.8	1094.0	1053.0	923.1	977.8
2694.0	82.5°	1808.6	1114.5	666.7	741.9	721.4	728.2	782.9	803.4	1203.4	1193.2
837.6	85°	567.5	437.6	400.0	413.7	393.2	403.4	461.5	916.2	847.9	495.7
259.8	87.5°	147.0	150.4	99.1	106.0	109.4	129.9	147.0	557.3	266.7	174.4
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>
11665.0
11107.7
9911.2
8259.9
6977.8
6382.9
5955.6
5808.6
5764.1
5596.6
5316.3
5087.2
4871.8
4635.9
4372.7
4075.2
3610.3
3391.5
3528.2
3432.5
3039.3
2776.1
2646.2
2482.1
2324.8
2167.5
2023.9
1883.8
1719.7
1538.5
1329.9
1087.2
967.5
1220.5
536.8
184.6
0.0

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