

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: P944235

Luminaire Tested: **GALN-SB9A-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944235
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-SB9A-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36377 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

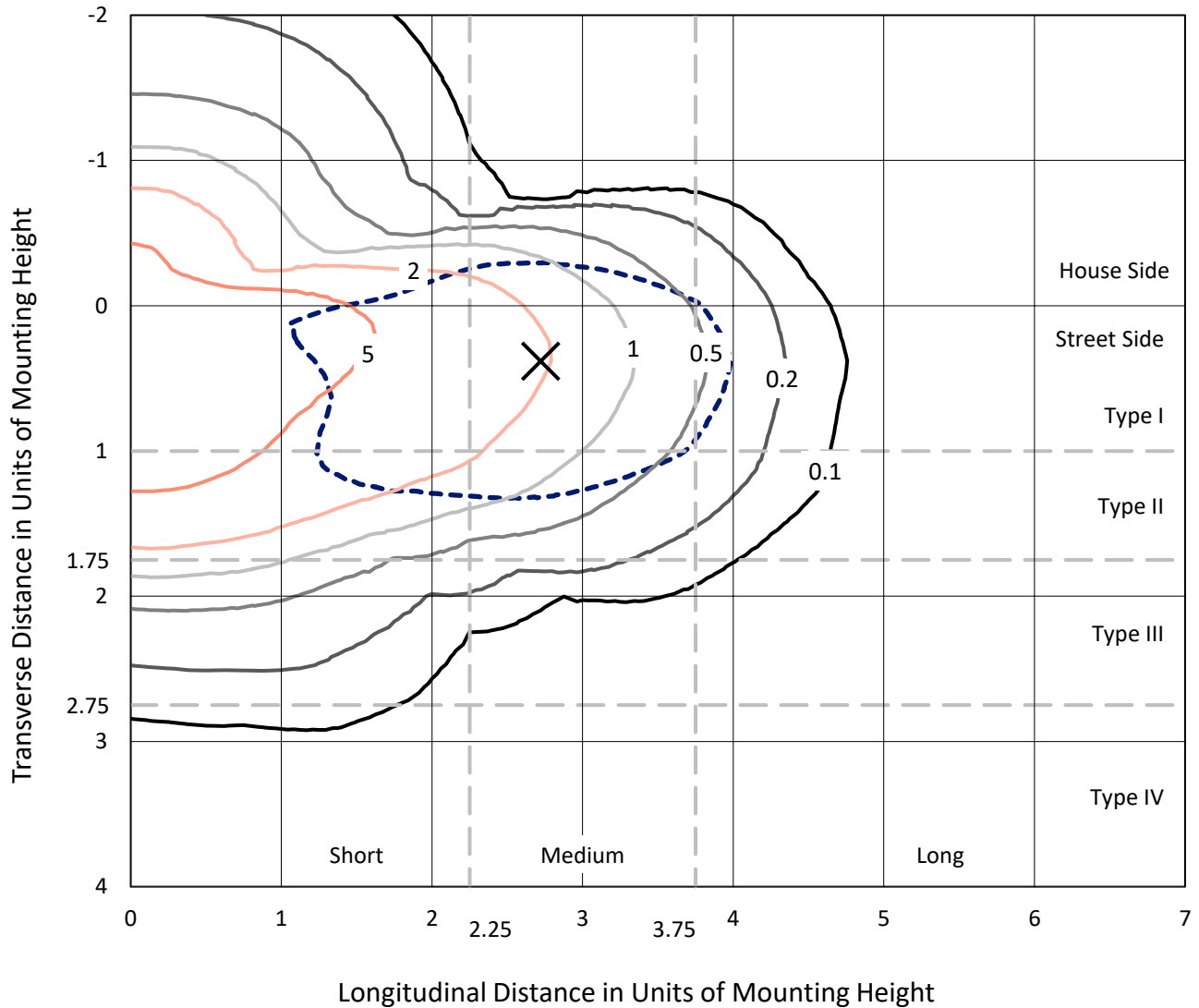
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

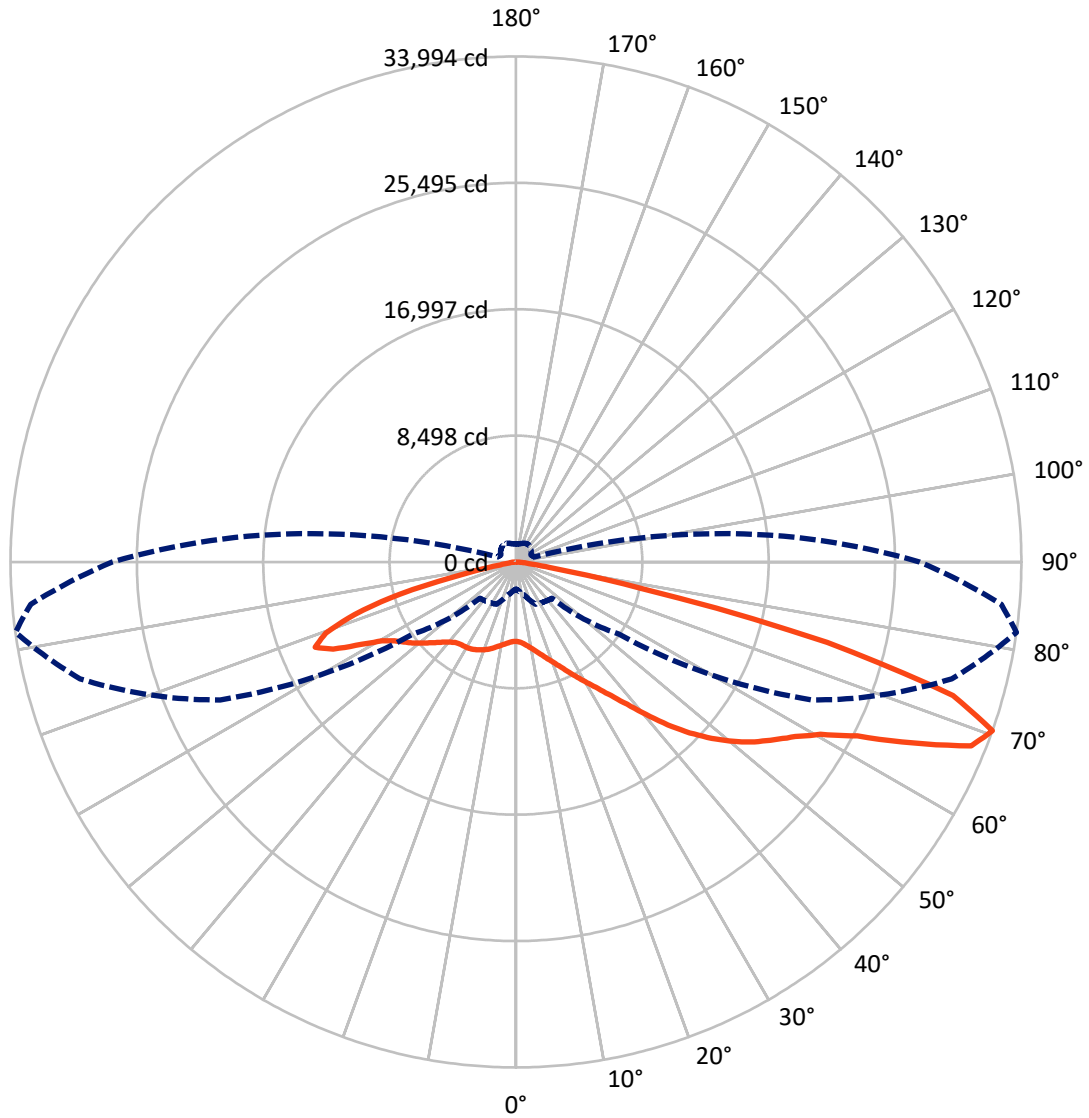
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	8967.8	0.0	8967.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	27409.2	0.0	27409.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	36377.0	0.0	36377.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.6	1.4
10°-20°	1446.8	4.0
20°-30°	2420.3	6.7
30°-40°	3781.1	10.4
40°-50°	6021.8	16.6
50°-60°	8380.1	23.0
60°-70°	8766.0	24.1
70°-80°	4581.6	12.6
80°-90°	475.7	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°	36377.0	100.0
0°-180°	36377.0	100.0

Coefficient of Utilization



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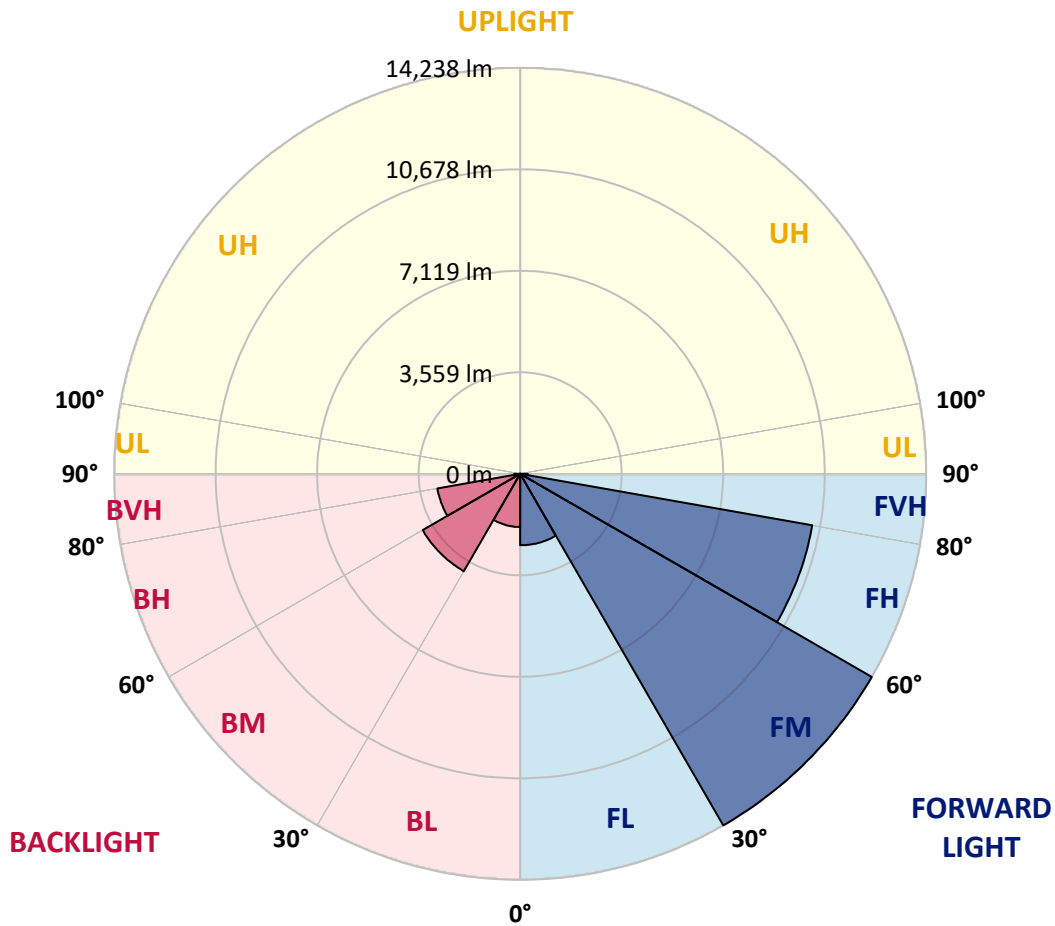
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2505.0	6.9			
FM (30°-60°)	14237.6	39.1			
FH (60°-80°)	10400.3	28.6			G4/12000
FVH (80°-90°)	266.3	0.7			G3/500
BL (0°-30°)	1865.6	5.1	B3/2500		
BM (30°-60°)	3945.5	10.8	B3/5000		
BH (60°-80°)	2947.3	8.1	B4/5000		G4/5000
BVH (80°-90°)	209.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5333.3	5333.3	5333.3	5333.3	5333.3	5333.3	5333.3	5333.3	5333.3	5333.3
2.5°	5460.7	5491.6	5482.0	5472.3	5472.3	5458.8	5456.9	5437.6	5422.1	5397.0
5°	5530.2	5563.0	5559.2	5566.9	5592.0	5597.8	5603.6	5592.0	5561.1	5530.2
7.5°	5468.4	5505.1	5516.7	5563.0	5640.2	5709.7	5761.8	5783.1	5754.1	5709.7
10°	5260.0	5300.5	5341.0	5451.1	5588.1	5752.2	5891.2	5974.2	5968.4	5925.9
12.5°	4837.2	4879.7	4966.6	5180.8	5431.8	5721.3	5980.0	6153.7	6213.5	6182.6
15°	4499.4	4536.1	4601.8	4821.8	5148.0	5588.1	6012.8	6350.6	6503.1	6485.7
17.5°	4489.8	4505.2	4545.8	4650.0	4900.9	5379.6	5978.0	6543.6	6835.1	6833.1
20°	4659.7	4665.5	4688.6	4709.8	4852.7	5221.4	5889.2	6703.8	7207.6	7207.6
22.5°	4895.2	4891.3	4914.5	4895.2	4964.6	5207.9	5833.3	6844.7	7622.6	7653.5
25°	5248.4	5229.1	5223.3	5178.9	5192.4	5333.3	5895.0	7004.9	8114.8	8178.5
27.5°	5719.4	5688.5	5667.3	5565.0	5530.2	5592.0	6084.2	7198.0	8663.0	8773.1
30°	6333.2	6277.2	6246.3	6068.8	5943.3	5952.9	6369.9	7454.7	9236.3	9413.9
32.5°	7170.9	7084.1	7001.1	6709.6	6479.9	6404.6	6738.6	7809.9	9857.9	10141.6
35°	8109.0	8039.6	7950.8	7501.0	7147.8	6974.0	7236.6	8305.9	10585.6	11035.3
37.5°	9012.4	8952.6	8995.0	8388.9	7933.4	7680.5	7889.0	8971.9	11483.1	12147.2
40°	9946.7	9900.3	9906.1	9327.0	8796.2	8512.5	8680.4	9807.7	12512.0	13469.4
42.5°	10962.0	10927.2	10811.4	10298.0	9701.5	9437.1	9591.5	10772.8	13616.1	14975.0
45°	12098.9	12077.7	11969.6	11380.8	10697.5	10400.3	10608.7	11838.3	14726.0	16391.8
47.5°	13081.4	13098.8	13085.3	12589.2	11880.8	11444.5	11693.5	12950.2	15758.7	17723.7
50°	13554.3	13645.0	13778.2	13623.8	13183.7	12739.8	12788.0	14023.4	16743.1	18972.6
52.5°	13307.2	13479.0	13841.9	14089.0	14258.9	14166.2	14036.9	15088.9	17669.6	20099.9
55°	12386.5	12627.8	13230.0	13826.5	14693.2	15366.8	15536.7	16270.2	18573.0	21092.0
57.5°	10709.1	11101.0	11641.4	12847.8	14307.1	15947.9	17285.5	17909.0	19530.4	22151.7
60°	7833.0	8358.0	9029.8	10824.9	12955.9	15637.1	18773.8	20426.1	20891.3	23524.1
62.5°	5012.9	5337.2	5954.9	7645.8	10095.3	14044.6	19229.3	23572.4	23197.9	25774.8
65°	3432.0	3640.5	4206.0	5155.7	6526.2	10454.3	18009.4	25931.2	26861.6	29342.0
67.5°	2493.9	2652.2	3134.8	3966.7	4252.4	6186.5	13975.1	25823.1	30422.9	33017.2
70°	1818.3	1930.3	2335.6	3134.8	3271.8	3441.7	8466.1	21951.0	30345.7	33993.9
72.5°	1347.3	1424.5	1696.7	2432.1	2648.3	2324.0	4190.6	15953.6	26076.0	30747.2
75°	974.8	1032.7	1233.4	1860.8	2119.4	1770.1	2090.5	9323.2	18188.9	21628.6
77.5°	745.1	789.5	920.7	1362.8	1696.7	1328.0	1297.1	4289.0	8624.4	8666.9
80°	598.4	627.3	698.8	959.3	1301.0	994.1	845.5	1731.4	2725.5	2306.7
82.5°	440.1	488.4	590.7	673.7	930.4	685.2	515.4	874.4	1036.6	891.8
85°	250.9	283.7	357.1	482.6	594.5	418.9	295.3	388.0	482.6	395.7
87.5°	88.8	115.8	125.5	189.2	258.7	173.7	113.9	112.0	158.3	117.7
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°
5333.3	0°	5333.3	5333.3	5333.3	5333.3	5333.3	5333.3	5333.3	5333.3	5333.3	5333.3
5391.2	2.5°	5371.9	5362.3	5323.7	5271.6	5217.5	5165.4	5148.0	5111.3	5086.2	5072.7
5516.7	5°	5480.0	5449.1	5358.4	5242.6	5121.0	4989.7	4897.1	4812.2	4750.4	4692.5
5688.5	7.5°	5634.4	5580.4	5424.0	5221.4	5005.2	4787.1	4624.9	4501.4	4418.4	4364.3
5889.2	10°	5814.0	5731.0	5491.6	5188.6	4854.6	4541.9	4350.8	4244.7	4192.5	4163.6
6118.9	12.5°	6020.5	5902.8	5561.1	5113.3	4624.9	4267.8	4136.6	4105.7	4107.6	4109.5
6408.5	15°	6275.3	6111.2	5617.1	4949.2	4325.7	4057.4	4034.3	4084.4	4136.6	4161.7
6736.6	17.5°	6562.9	6331.3	5626.7	4679.0	4032.3	3922.3	3995.6	4103.7	4182.9	4217.6
7103.4	20°	6871.7	6555.2	5557.2	4296.8	3791.0	3812.3	3943.5	4082.5	4169.4	4213.8
7522.2	22.5°	7225.0	6794.5	5391.2	3895.3	3594.2	3692.6	3847.0	3982.1	4072.9	4117.3
8014.5	25°	7628.4	7062.8	5130.6	3557.5	3424.3	3557.5	3711.9	3823.9	3897.2	3937.7
8564.6	27.5°	8076.2	7342.7	4783.2	3289.2	3275.7	3418.5	3545.9	3632.8	3671.4	3702.2
9149.5	30°	8526.0	7597.5	4362.4	3086.5	3146.3	3281.5	3372.2	3410.8	3422.4	3428.2
9801.9	32.5°	9012.4	7817.6	3920.4	2918.6	3022.8	3148.3	3202.3	3219.7	3165.6	3129.0
10593.3	35°	9601.1	8053.1	3488.0	2785.4	2901.2	3009.3	3026.7	3011.2	2947.5	2872.2
11585.5	37.5°	10328.8	8346.5	3142.5	2690.8	2787.3	2858.7	2837.5	2833.6	2839.4	2750.6
12778.4	40°	11220.6	8728.7	2889.6	2617.4	2694.7	2710.1	2650.3	2683.1	2712.0	2576.9
14087.1	42.5°	12210.9	9190.0	2729.4	2567.3	2617.4	2580.8	2488.1	2524.8	2520.9	2343.3
15401.6	45°	13220.4	9691.9	2673.4	2530.6	2546.0	2472.7	2370.4	2380.0	2298.9	2138.7
16662.1	47.5°	14224.1	10230.4	2708.2	2499.7	2457.2	2374.2	2295.1	2252.6	2132.9	2013.3
17870.4	50°	15208.6	10796.0	2835.6	2437.9	2335.6	2287.4	2229.5	2154.2	2026.8	1924.5
19013.1	52.5°	16121.6	11365.4	2978.4	2335.6	2183.1	2212.1	2175.4	2088.5	1963.1	1858.8
20094.1	55°	16986.3	11934.8	3034.4	2194.7	2040.3	2146.5	2125.2	1965.0	1814.4	1729.5
21225.2	57.5°	17928.3	12620.1	2972.6	2015.2	1924.5	2071.2	1990.1	1812.5	1725.7	1662.0
22698.0	60°	19233.2	13695.2	2839.4	1793.2	1814.4	1959.2	1820.2	1746.9	1652.3	1580.9
24906.2	62.5°	21400.9	15700.8	2625.2	1573.2	1685.1	1793.2	1739.2	1665.8	1569.3	1499.8
28681.8	65°	24605.1	18488.1	2221.7	1401.4	1540.4	1631.1	1652.3	1579.0	1478.6	1405.2
31990.3	67.5°	27307.5	20236.9	1681.3	1258.5	1391.7	1499.8	1559.7	1488.2	1382.1	1310.7
32764.3	70°	27158.8	18966.8	1283.6	1117.6	1260.5	1370.5	1447.7	1391.7	1277.8	1210.3
29760.8	72.5°	24122.5	15866.8	1038.5	974.8	1127.3	1235.4	1328.0	1285.6	1169.7	1104.1
21802.3	75°	17721.8	11263.1	830.0	830.0	961.3	1094.5	1196.8	1169.7	1063.6	1017.2
9153.3	77.5°	7470.1	4725.3	650.5	689.1	799.1	940.0	1067.4	1077.1	984.4	1042.3
2420.6	80°	1986.2	1302.9	496.1	542.4	627.3	776.0	928.5	924.6	824.2	770.2
899.5	82.5°	756.7	513.5	353.2	382.2	453.6	594.5	735.4	758.6	658.2	569.4
353.2	85°	291.5	220.1	218.1	229.7	264.4	393.8	555.9	575.2	496.1	420.8
98.4	87.5°	75.3	65.6	81.1	77.2	121.6	210.4	318.5	330.1	303.1	175.7
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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180°
5333.3
5088.2
4715.6
4375.9
4171.3
4113.4
4159.7
4225.4
4225.4
4128.8
3949.3
3713.8
3441.7
3140.5
2876.1
2756.4
2580.8
2341.4
2144.5
2013.3
1916.8
1860.8
1721.8
1656.2
1577.0
1499.8
1409.1
1312.6
1216.1
1104.1
1003.7
945.8
716.1
569.4
434.3
250.9
0.0

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