

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: P949647

Luminaire Tested: **GALN-SB4B-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949647
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-SB4B-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19819 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

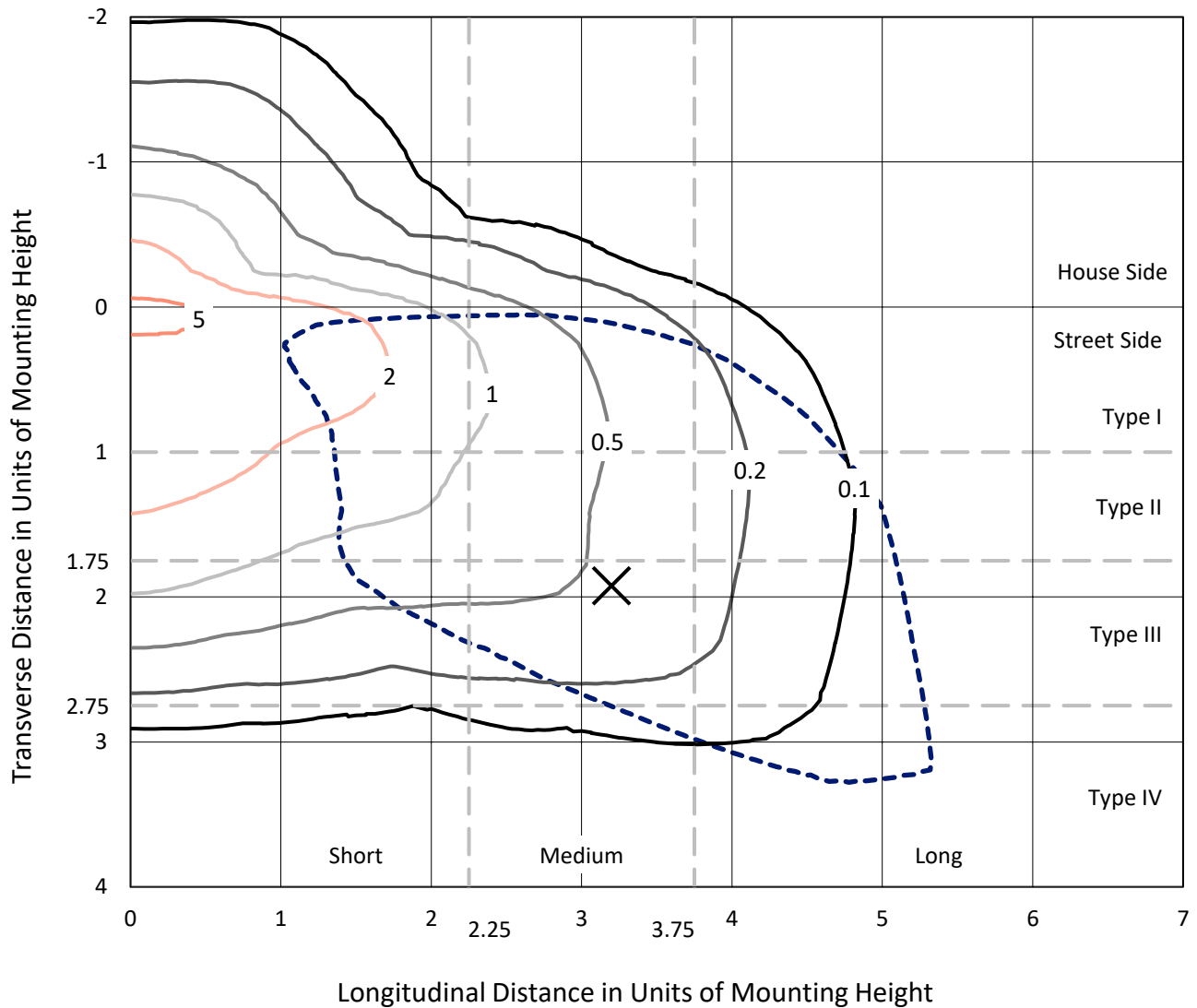
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

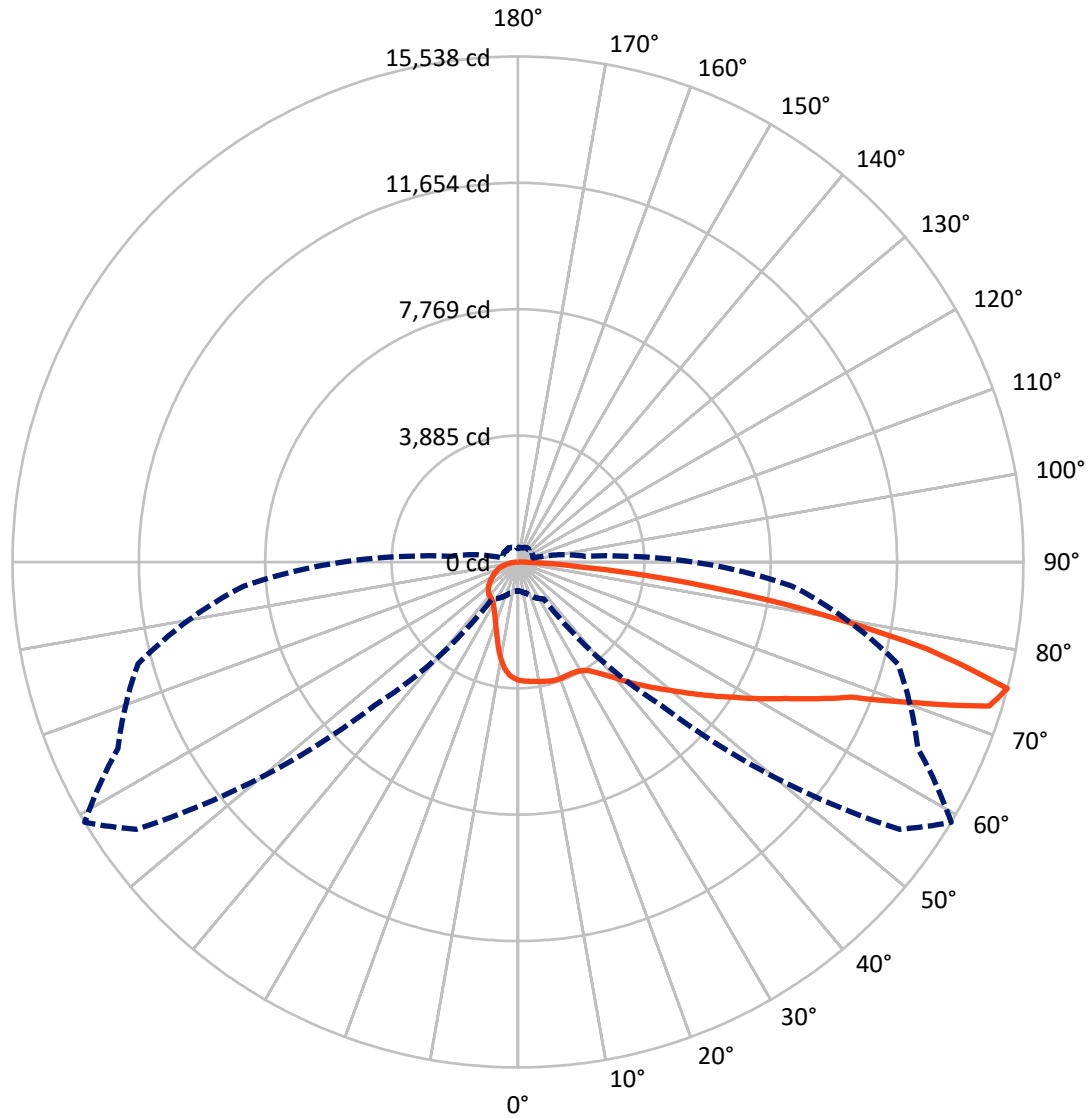
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	3717.2	0.0	3717.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16101.8	0.0	16101.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	19819.0	0.0	19819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.2	1.6
10°-20°	833.7	4.2
20°-30°	1266.4	6.4
30°-40°	1882.4	9.5
40°-50°	2799.5	14.1
50°-60°	3800.0	19.2
60°-70°	4639.2	23.4
70°-80°	3640.8	18.4
80°-90°	630.7	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°	19819.0	100.0
0°-180°	19819.0	100.0

Coefficient of Utilization

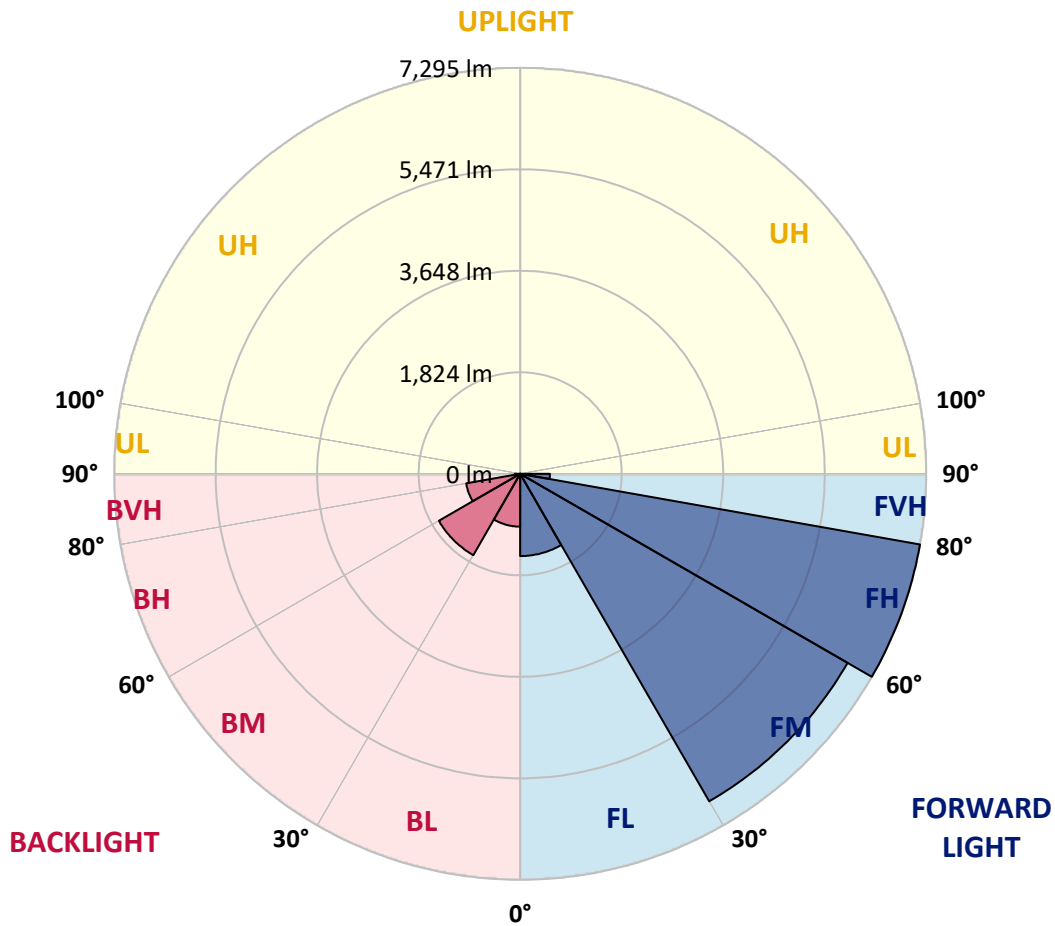


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1477.7	7.5			
FM (30°-60°)	6794.8	34.3			
FH (60°-80°)	7295.2	36.8			G3/7500
FVH (80°-90°)	534.1	2.7			G4/750
BL (0°-30°)	948.6	4.8	B2/1000		
BM (30°-60°)	1687.2	8.5	B2/2500		
BH (60°-80°)	984.8	5.0	B2/1000		G2/1000
BVH (80°-90°)	96.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3637.7	3637.7	3637.7	3637.7	3637.7	3637.7	3637.7	3637.7	3637.7	3637.7
2.5°	3668.7	3655.9	3668.7	3663.3	3661.2	3656.9	3658.0	3665.5	3661.2	3666.5
5°	3644.1	3636.7	3649.5	3646.3	3660.1	3662.3	3676.1	3684.6	3690.0	3691.0
7.5°	3603.6	3596.2	3614.3	3629.2	3659.1	3667.6	3696.4	3710.2	3717.7	3730.5
10°	3455.4	3452.2	3497.0	3553.5	3623.9	3667.6	3711.3	3734.8	3746.5	3780.6
12.5°	3193.1	3197.4	3256.0	3364.8	3505.5	3646.3	3728.4	3762.5	3780.6	3823.2
15°	2942.6	2941.5	3005.5	3121.7	3319.0	3552.4	3736.9	3795.5	3826.4	3889.3
17.5°	2797.6	2793.3	2838.1	2926.6	3110.0	3408.5	3715.6	3813.6	3879.8	3958.6
20°	2770.9	2762.4	2785.9	2829.6	2959.7	3250.7	3660.1	3813.6	3922.4	4024.7
22.5°	2868.0	2854.1	2844.5	2839.2	2896.8	3120.6	3597.2	3800.9	3985.3	4119.6
25°	3063.1	3041.8	2992.7	2944.7	2927.7	3062.0	3541.8	3797.7	4079.1	4247.6
27.5°	3378.7	3352.0	3252.9	3137.7	3034.3	3091.9	3517.3	3816.8	4182.5	4383.0
30°	3769.9	3741.2	3616.4	3439.4	3253.9	3202.7	3548.2	3873.4	4314.7	4563.2
32.5°	4120.7	4088.7	3982.1	3801.9	3551.4	3394.6	3646.3	3981.0	4522.6	4813.7
35°	4432.0	4394.7	4298.8	4132.4	3916.0	3664.4	3823.2	4171.9	4818.0	5221.0
37.5°	4736.9	4693.2	4588.7	4412.8	4261.4	4023.7	4067.4	4417.1	5210.3	5715.7
40°	5078.1	5015.2	4888.3	4714.6	4567.4	4444.8	4388.3	4717.8	5609.1	6267.9
42.5°	5408.6	5348.9	5197.5	5049.3	4864.9	4829.7	4760.4	5069.6	6045.1	6874.6
45°	5764.7	5693.3	5509.9	5322.3	5206.1	5085.6	5120.8	5421.4	6472.6	7493.0
47.5°	6098.4	6018.5	5802.0	5593.1	5529.1	5300.9	5451.3	5808.4	6917.2	8119.9
50°	6278.6	6199.7	6019.5	5830.8	5780.7	5566.4	5809.5	6233.8	7383.1	8744.6
52.5°	6428.9	6343.6	6108.0	6003.5	5988.6	5855.3	6250.9	6720.0	7849.1	9296.9
55°	6588.9	6494.0	6193.3	6099.5	6167.7	6179.5	6774.4	7271.2	8341.6	9835.3
57.5°	6773.3	6652.8	6275.4	6180.5	6342.6	6559.0	7375.7	7842.7	8825.7	10334.3
60°	6947.1	6825.5	6433.2	6309.5	6531.3	6999.3	8065.5	8534.6	9373.7	10778.9
62.5°	6981.2	6881.0	6559.0	6557.9	6787.2	7513.2	8882.2	9232.9	9852.4	11218.1
65°	6390.6	6327.7	6136.8	6548.3	7153.9	8253.1	9791.6	10126.4	10461.1	11601.9
67.5°	4863.8	4872.3	4858.5	5652.8	6857.5	9316.1	11108.3	11082.7	11212.8	12032.7
70°	2224.0	2274.1	2600.4	3902.1	5493.9	9438.7	13285.4	12953.8	12156.3	12590.3
72.5°	1201.6	1239.9	1373.2	1890.3	3303.0	8391.7	14912.4	15148.0	13411.2	12965.6
75°	881.7	903.0	995.8	1201.6	1387.1	6237.0	14329.2	15538.2	13567.9	12090.2
77.5°	660.0	669.5	745.2	952.1	710.1	3288.0	11449.5	12868.5	11614.7	9933.4
80°	478.7	489.4	545.9	714.3	497.9	1202.6	7861.9	9032.5	7954.6	6331.9
82.5°	330.5	334.8	359.3	486.2	347.6	467.0	4460.8	5296.7	4440.6	2221.9
85°	199.4	204.7	215.4	283.6	197.2	221.8	1925.5	1991.6	1327.4	530.9
87.5°	82.1	87.4	96.0	119.4	77.8	61.8	317.7	398.7	248.4	155.7
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°
3637.7	0°	3637.7	3637.7	3637.7	3637.7	3637.7	3637.7	3637.7	3637.7	3637.7	3637.7
3648.4	2.5°	3643.1	3635.6	3615.3	3587.6	3562.0	3530.1	3516.2	3504.5	3493.8	3473.5
3677.2	5°	3665.5	3645.2	3590.8	3520.5	3440.5	3353.1	3267.8	3209.1	3159.0	3121.7
3710.2	7.5°	3699.6	3661.2	3562.0	3418.1	3234.7	3047.1	2877.6	2757.1	2666.5	2633.4
3757.1	10°	3734.8	3688.9	3516.2	3262.4	2945.8	2656.9	2431.9	2308.2	2235.7	2212.3
3812.6	12.5°	3776.3	3709.2	3444.8	3046.0	2622.8	2306.1	2109.9	2037.4	2000.1	1987.3
3880.8	15°	3837.1	3726.2	3337.1	2775.2	2314.6	2050.2	1923.4	1873.2	1854.0	1853.0
3951.2	17.5°	3882.9	3729.4	3169.7	2485.2	2077.9	1895.6	1791.1	1772.0	1784.7	1803.9
4020.5	20°	3934.1	3700.6	2950.1	2220.8	1911.6	1760.2	1716.5	1729.3	1760.2	1787.9
4112.2	22.5°	3970.4	3648.4	2684.6	2015.0	1767.7	1682.4	1680.3	1706.9	1724.0	1737.8
4219.9	25°	4002.4	3559.9	2403.1	1842.3	1649.3	1635.5	1658.9	1650.4	1638.7	1650.4
4327.5	27.5°	4025.8	3420.2	2151.5	1690.9	1566.2	1603.5	1589.6	1570.5	1569.4	1575.8
4454.4	30°	4018.4	3233.7	1944.7	1547.0	1507.5	1543.8	1510.7	1507.5	1504.3	1507.5
4645.3	32.5°	4018.4	3021.5	1785.8	1447.8	1470.2	1456.4	1453.2	1445.7	1432.9	1431.9
4904.3	35°	4040.7	2809.3	1649.3	1394.5	1439.3	1406.3	1408.4	1390.3	1363.6	1350.8
5247.6	37.5°	4086.6	2638.7	1513.9	1368.9	1384.9	1383.9	1375.3	1344.4	1297.5	1257.0
5676.2	40°	4197.5	2588.6	1421.2	1357.2	1359.4	1372.1	1349.8	1290.1	1183.4	1117.3
6111.2	42.5°	4371.3	2672.9	1400.9	1328.4	1342.3	1355.1	1311.4	1172.8	1097.1	1057.6
6567.5	45°	4591.9	2820.0	1444.6	1286.9	1301.8	1324.2	1194.1	1128.0	1093.9	1094.9
7019.6	47.5°	4871.3	2974.6	1525.7	1250.6	1243.1	1255.9	1116.3	1075.8	1028.8	1040.6
7453.5	50°	5194.3	3131.3	1602.4	1201.6	1178.1	1136.5	1066.2	1027.8	968.1	940.4
7872.5	52.5°	5544.0	3282.7	1633.4	1141.9	1107.7	1059.8	1032.0	985.1	912.6	866.8
8268.1	55°	5875.6	3420.2	1599.2	1070.4	1037.4	1000.1	995.8	967.0	889.2	825.2
8619.9	57.5°	6189.1	3535.4	1513.9	997.9	965.9	943.6	972.3	958.5	860.4	778.3
8952.5	60°	6454.5	3614.3	1390.3	924.4	902.0	890.2	934.0	929.7	819.9	728.2
9251.1	62.5°	6665.6	3645.2	1253.8	854.0	848.7	827.3	880.6	880.6	768.7	679.1
9513.3	65°	6830.9	3615.3	1115.2	784.7	795.4	763.4	815.6	809.2	714.3	635.4
9815.1	67.5°	6976.9	3517.3	961.7	716.5	741.0	700.5	747.4	732.5	654.6	591.7
10076.3	70°	7042.0	3289.1	786.8	648.2	678.1	638.6	679.1	651.4	587.5	544.8
9789.5	72.5°	6519.6	2733.6	619.4	576.8	602.4	570.4	605.6	573.6	515.0	495.8
8453.6	75°	5393.7	2051.3	476.6	499.0	518.2	493.6	517.1	493.6	440.3	454.2
6244.5	77.5°	3917.1	1384.9	364.6	416.9	425.4	412.6	432.9	406.2	358.2	355.0
3112.1	80°	1947.9	811.3	285.7	329.4	326.2	317.7	341.2	328.4	287.9	304.9
840.1	82.5°	564.0	347.6	207.9	231.4	225.0	227.1	244.2	250.5	375.3	372.1
261.2	85°	177.0	136.5	124.7	129.0	122.6	125.8	143.9	285.7	264.4	154.6
81.0	87.5°	45.8	46.9	30.9	33.1	34.1	40.5	45.8	173.8	83.2	54.4
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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180°
3637.7
3463.9
3090.8
2575.8
2176.0
1990.5
1857.2
1811.4
1797.5
1745.3
1657.9
1586.4
1519.3
1445.7
1363.6
1270.9
1125.9
1057.6
1100.3
1070.4
947.8
865.7
825.2
774.0
725.0
675.9
631.2
587.5
536.3
479.8
414.7
339.0
301.7
380.6
167.4
57.6
0.0

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