

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: P947503

Luminaire Tested: **GALN-SB2D-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18175 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

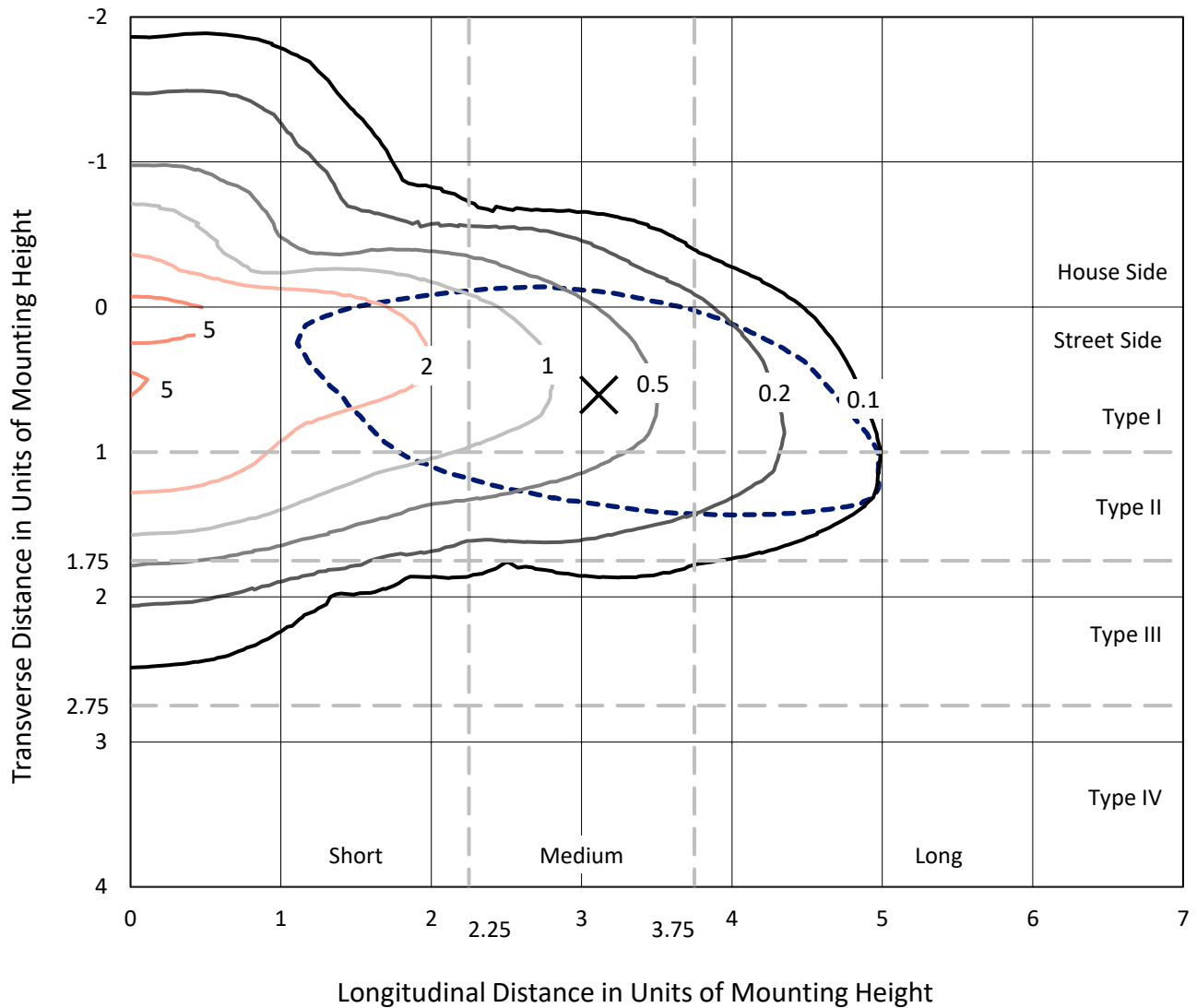
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

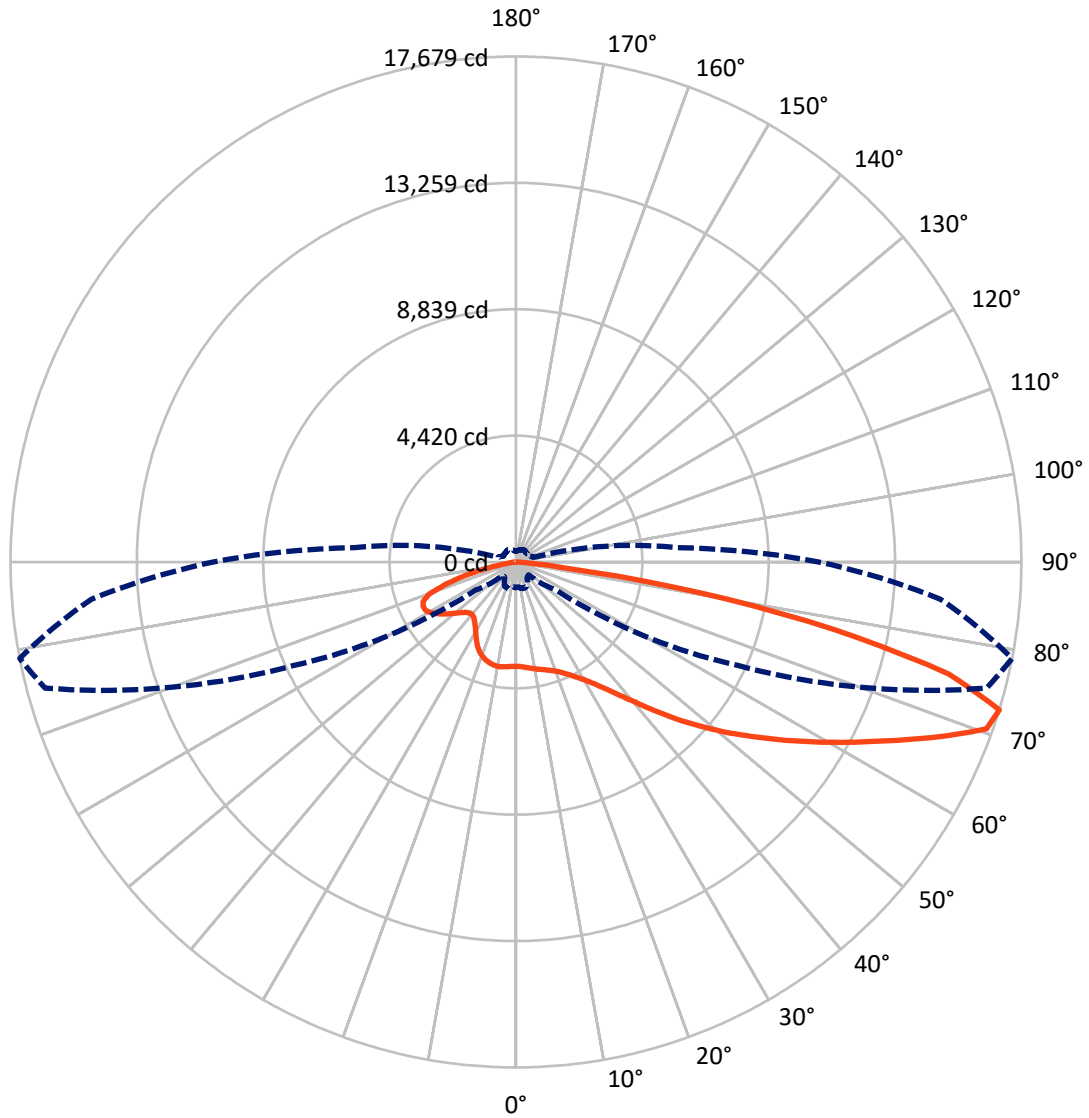
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3999.5	0.0	3999.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	14175.5	0.0	14175.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	18175.0	0.0	18175.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	1.8
10°-20°	865.9	4.8
20°-30°	1397.1	7.7
30°-40°	2096.9	11.5
40°-50°	2974.6	16.4
50°-60°	3756.5	20.7
60°-70°	3815.2	21.0
70°-80°	2600.2	14.3
80°-90°	337.4	1.9
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°	18175.0	100.0
0°-180°	18175.0	100.0



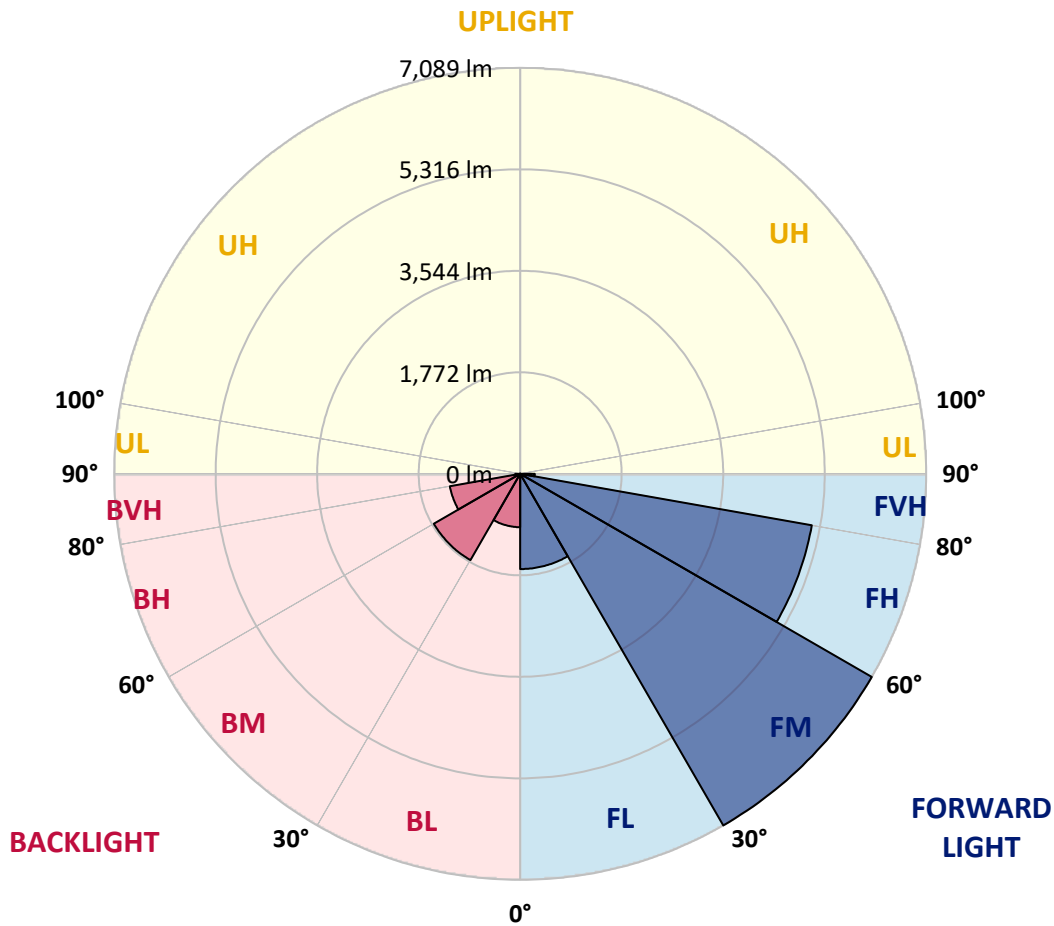
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1662.6	9.1			
FM (30°-60°)	7088.6	39.0			
FH (60°-80°)	5170.2	28.4			G3/7500
FVH (80°-90°)	254.1	1.4			G3/500
BL (0°-30°)	931.6	5.1	B2/1000		
BM (30°-60°)	1739.4	9.6	B2/2500		
BH (60°-80°)	1245.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	83.2	0.5			G1/100
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°	79°
0°	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5
2.5°	3650.4	3633.1	3643.7	3639.8	3644.6	3650.4	3652.3	3655.2	3664.8	3663.8
5°	3642.7	3625.4	3639.8	3635.0	3647.5	3661.0	3672.5	3683.1	3698.5	3705.2
7.5°	3626.3	3614.8	3629.2	3643.7	3666.7	3686.9	3703.3	3727.3	3749.4	3753.2
10°	3531.2	3522.5	3556.2	3593.7	3657.1	3711.9	3747.5	3775.4	3799.4	3803.2
12.5°	3432.1	3421.6	3459.1	3510.0	3612.9	3711.9	3786.9	3823.4	3844.6	3857.1
15°	3415.8	3407.2	3428.3	3472.5	3558.1	3686.0	3813.8	3881.1	3899.4	3913.8
17.5°	3494.6	3478.3	3486.9	3502.3	3552.3	3661.9	3835.0	3946.5	3974.4	3989.8
20°	3677.3	3654.2	3640.8	3610.0	3601.4	3665.8	3833.0	4025.3	4061.9	4081.1
22.5°	3920.5	3905.1	3876.3	3798.4	3713.8	3712.9	3869.6	4126.3	4194.5	4212.8
25°	4214.7	4191.6	4155.1	4049.4	3886.9	3806.1	3931.1	4255.1	4369.5	4374.3
27.5°	4553.1	4518.5	4468.5	4329.1	4109.9	3952.3	4025.3	4403.1	4570.4	4568.5
30°	4909.8	4875.2	4822.3	4653.1	4377.2	4149.3	4156.1	4562.7	4808.9	4798.3
32.5°	5170.3	5144.4	5133.8	5003.1	4684.8	4382.0	4306.0	4739.6	5103.0	5093.4
35°	5370.3	5336.7	5349.1	5282.8	5020.4	4642.5	4489.7	4950.2	5460.7	5459.7
37.5°	5568.3	5538.5	5549.1	5504.9	5330.9	4973.2	4713.7	5207.8	5903.9	5925.0
40°	5749.1	5717.4	5759.7	5718.3	5572.2	5325.1	4968.4	5499.1	6417.2	6457.6
42.5°	5857.7	5832.7	5902.9	5903.9	5781.8	5622.2	5248.2	5820.2	7011.4	7101.8
45°	5895.2	5886.6	5992.3	6014.4	5967.3	5794.3	5500.1	6170.2	7651.7	7813.2
47.5°	5854.8	5838.5	5984.6	6066.3	6103.8	5875.0	5708.7	6549.0	8305.4	8541.9
50°	5651.0	5619.3	5836.6	6008.7	6142.3	5927.9	5919.3	6986.4	9048.6	9307.2
52.5°	5284.7	5260.7	5507.8	5806.8	6057.7	5953.9	6155.8	7464.2	9754.2	10088.8
55°	4816.5	4784.8	5056.9	5447.2	5847.1	5945.2	6392.3	7998.7	10586.8	10926.1
57.5°	4074.4	4010.9	4355.1	4816.5	5503.9	5934.6	6638.4	8530.4	11432.8	11839.5
60°	2991.8	2897.6	3319.7	3866.7	4832.9	5831.8	6943.1	9126.4	12448.0	12814.3
62.5°	1742.0	1687.2	1963.1	2473.6	3642.7	5226.1	7114.3	9819.6	13445.9	13830.5
65°	1352.7	1337.3	1361.3	1400.7	2027.6	3912.8	6586.5	10495.4	14715.0	14984.2
67.5°	1237.3	1225.8	1236.3	1162.3	1028.7	2179.5	5210.7	10666.6	16074.4	16237.8
70°	1099.8	1086.4	1121.0	1057.5	809.5	991.2	3366.8	10045.5	17155.9	17462.6
72.5°	896.0	880.6	961.4	932.5	681.6	636.4	1691.1	8569.8	17042.5	17678.9
75°	688.4	679.7	775.8	799.9	555.7	500.9	811.4	6370.1	14997.6	15638.9
77.5°	534.5	527.8	576.8	664.3	448.0	388.4	499.0	4040.7	11302.0	11414.5
80°	400.9	381.7	426.9	514.3	349.0	283.6	338.4	2356.4	7144.1	6475.9
82.5°	250.9	241.3	278.8	343.2	246.1	195.2	220.2	1301.7	2863.0	1686.3
85°	143.2	139.4	151.9	196.1	133.6	112.5	125.9	574.9	523.0	359.6
87.5°	57.7	55.8	69.2	87.5	49.0	41.3	44.2	138.4	115.4	106.7
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°
3648.5	0°	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5
3662.9	2.5°	3659.0	3659.0	3645.6	3624.4	3600.4	3585.0	3560.0	3553.3	3527.3	3519.6
3695.6	5°	3703.3	3695.6	3654.2	3594.6	3512.9	3437.9	3355.2	3303.3	3230.3	3204.3
3760.0	7.5°	3759.0	3737.9	3666.7	3536.0	3364.8	3196.6	3021.6	2889.0	2762.1	2716.9
3812.9	10°	3810.0	3780.2	3659.0	3430.2	3134.1	2842.8	2564.0	2368.9	2220.8	2160.2
3871.5	12.5°	3860.9	3806.1	3608.1	3254.3	2806.3	2411.2	2114.1	1962.2	1870.9	1797.8
3919.6	15°	3909.0	3832.1	3529.2	3018.8	2446.7	2045.8	1826.6	1705.5	1632.4	1584.4
3989.8	17.5°	3964.8	3854.2	3411.0	2719.8	2104.5	1793.0	1614.2	1541.1	1526.7	1520.9
4085.9	20°	4042.6	3874.4	3255.3	2385.2	1852.6	1591.1	1498.8	1492.1	1491.1	1488.2
4201.3	22.5°	4126.3	3898.4	3049.5	2081.4	1638.2	1465.2	1448.8	1435.3	1426.7	1425.7
4340.7	25°	4225.3	3906.1	2791.9	1832.4	1455.5	1405.5	1386.3	1366.1	1360.4	1360.4
4499.3	27.5°	4321.4	3880.2	2491.9	1616.1	1352.7	1350.7	1325.8	1319.0	1318.1	1320.9
4680.0	30°	4417.6	3831.1	2193.9	1416.1	1293.1	1293.1	1284.4	1289.2	1293.1	1302.7
4928.1	32.5°	4547.4	3779.2	1944.9	1268.1	1241.1	1231.5	1240.2	1249.8	1253.6	1266.1
5254.0	35°	4737.7	3742.7	1746.8	1187.3	1187.3	1174.8	1179.6	1177.7	1169.0	1163.3
5648.1	37.5°	4989.6	3740.8	1583.4	1149.8	1142.1	1140.2	1141.2	1128.7	1095.0	1054.6
6125.0	40°	5292.4	3792.7	1457.5	1123.9	1118.1	1129.6	1123.9	1090.2	997.9	927.7
6711.4	42.5°	5699.1	3940.7	1376.7	1092.1	1109.4	1123.9	1100.8	984.5	922.0	874.9
7379.6	45°	6177.9	4181.1	1335.4	1058.5	1093.1	1110.4	998.9	947.9	897.9	841.2
8108.3	47.5°	6720.1	4483.9	1325.8	1026.8	1056.6	1067.1	955.6	932.5	875.8	814.3
8840.9	50°	7310.4	4842.5	1351.7	989.3	1003.7	967.2	941.2	920.0	861.4	800.8
9591.7	52.5°	7920.9	5237.6	1403.6	938.3	950.8	910.4	935.4	917.2	852.7	771.0
10367.6	55°	8520.8	5635.6	1453.6	878.7	897.0	859.5	919.1	905.6	813.3	721.0
11195.3	57.5°	9130.3	6031.7	1502.6	825.8	845.1	810.4	893.1	874.9	769.1	674.9
12099.0	60°	9763.8	6416.3	1525.7	774.9	788.3	765.3	853.7	822.0	719.1	627.8
12987.4	62.5°	10357.0	6736.4	1488.2	723.9	732.6	723.0	801.8	759.5	669.1	574.9
13913.2	65°	10952.1	6926.8	1372.9	673.9	675.9	671.0	728.7	692.2	610.5	528.8
14723.6	67.5°	11491.4	7033.5	1189.2	620.1	615.3	613.4	660.5	619.1	553.8	482.6
15339.9	70°	11605.8	6762.4	908.5	556.6	556.6	551.8	585.5	543.2	491.3	433.6
14898.6	72.5°	10600.2	5688.5	645.1	484.5	492.2	482.6	510.5	474.9	427.8	389.4
12840.3	75°	8547.7	4171.5	469.2	410.5	424.0	407.6	433.6	408.6	368.2	367.2
8848.6	77.5°	5873.1	2579.4	340.3	338.4	348.0	326.9	356.7	343.2	306.7	290.3
3851.3	80°	2506.3	1028.7	248.0	261.5	261.5	242.3	276.9	280.7	249.0	241.3
743.2	82.5°	499.0	292.3	174.0	179.8	169.2	163.4	196.1	217.3	300.0	333.6
224.0	85°	150.0	107.7	104.8	98.1	86.5	87.5	115.4	218.2	269.2	153.8
74.0	87.5°	41.3	26.9	27.9	22.1	18.3	24.0	39.4	165.4	90.4	38.5
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>
3648.5
3532.1
3223.5
2722.6
2173.7
1821.8
1593.0
1524.8
1497.8
1436.3
1366.1
1328.6
1309.4
1276.7
1176.7
1055.6
925.8
872.9
837.4
809.5
794.1
765.3
716.2
673.0
624.9
573.9
523.0
476.8
431.7
377.8
330.7
272.1
241.3
334.6
132.7
32.7
0.0

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