

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: P948576

Luminaire Tested: **GALN-SB3C-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948576
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-SB3C-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19733 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

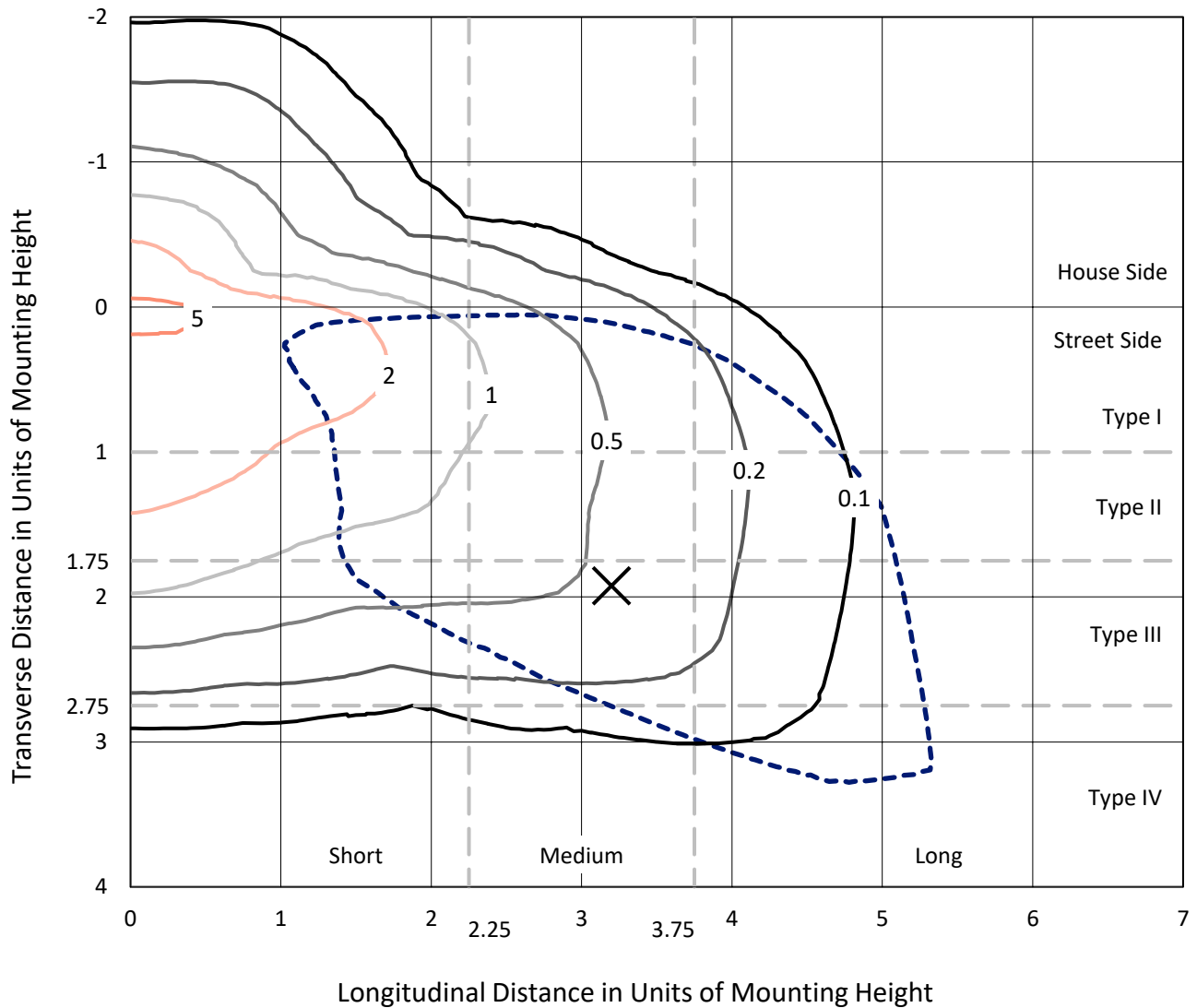
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

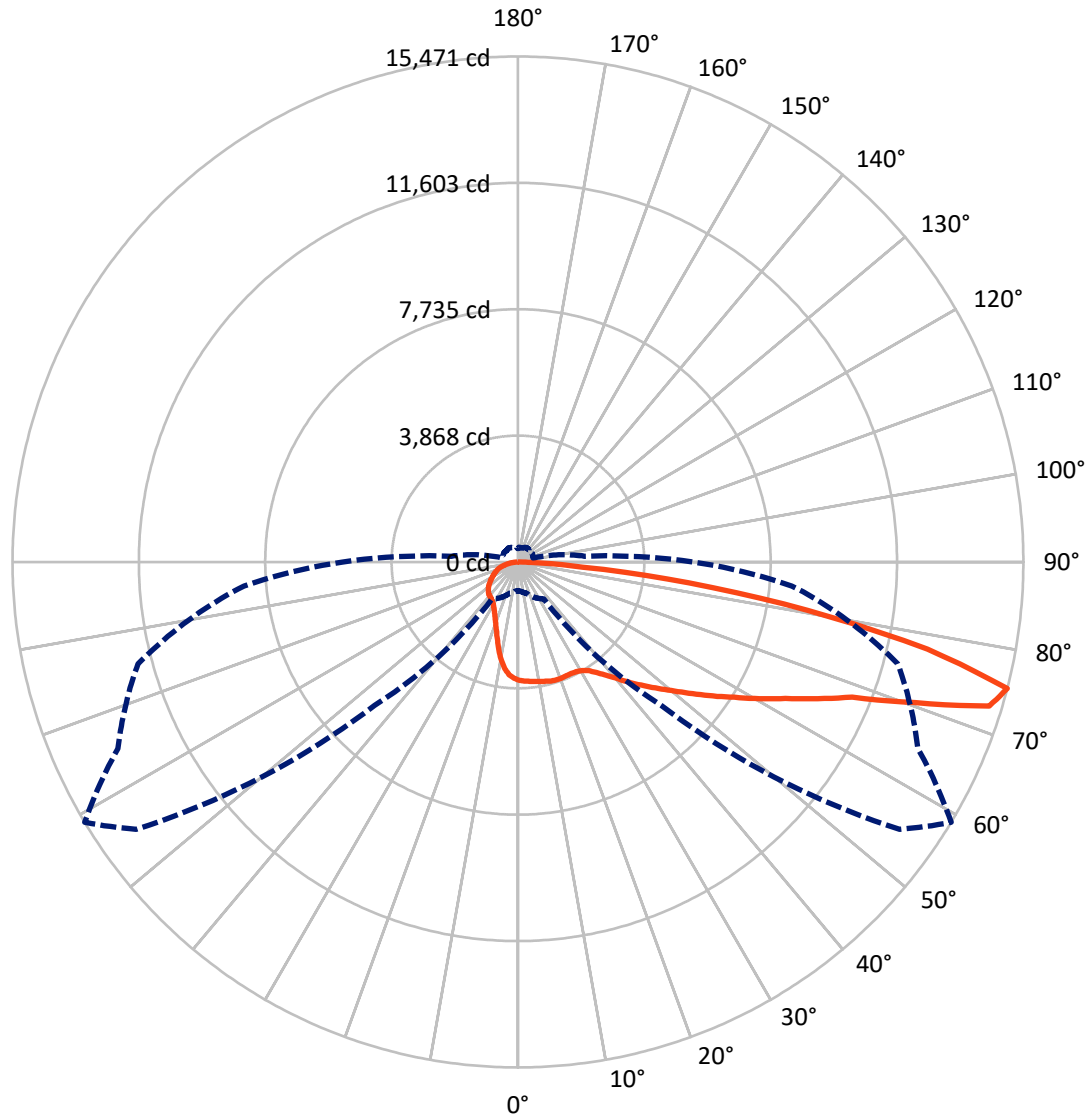
✕ Max cd
 - - - 1/2 Max cd



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	3701.1	0.0	3701.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16031.9	0.0	16031.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	19733.0	0.0	19733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.8	1.6
10°-20°	830.1	4.2
20°-30°	1260.9	6.4
30°-40°	1874.3	9.5
40°-50°	2787.4	14.1
50°-60°	3783.5	19.2
60°-70°	4619.1	23.4
70°-80°	3625.0	18.4
80°-90°	627.9	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°	19733.0	100.0
0°-180°	19733.0	100.0

Coefficient of Utilization



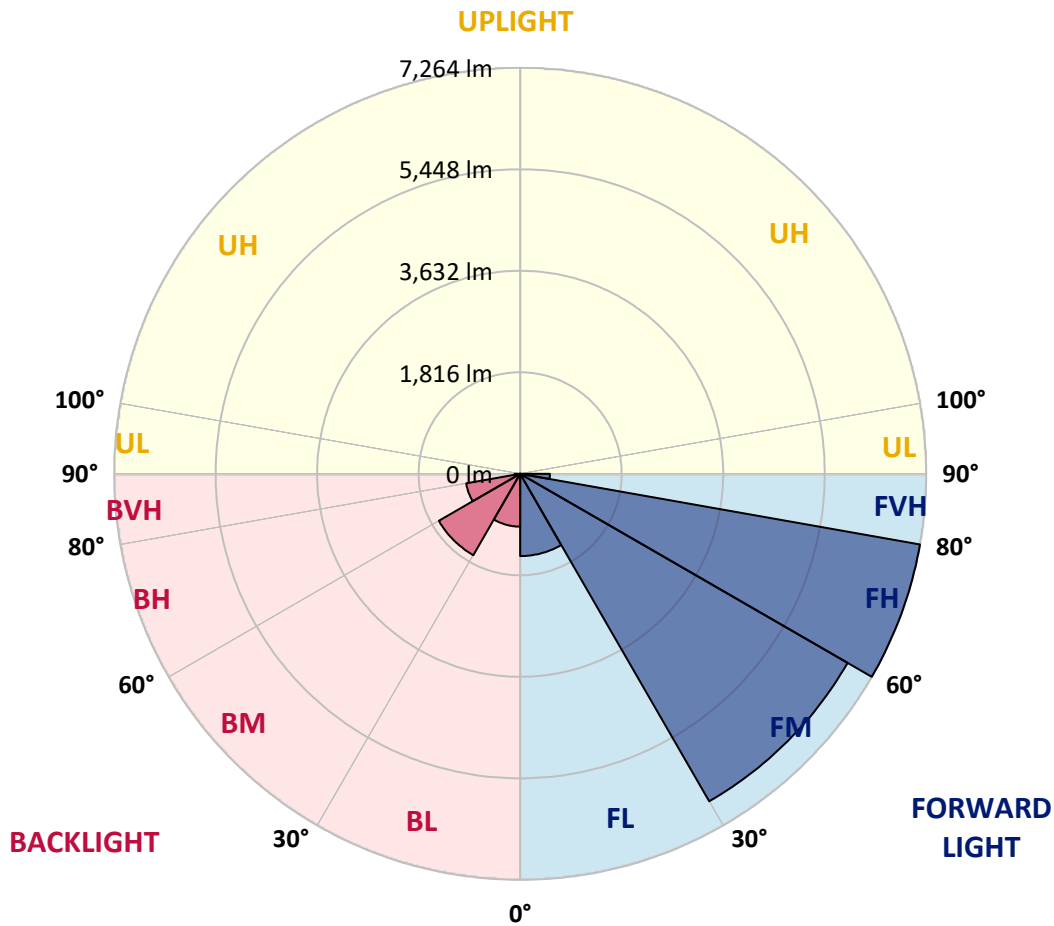
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1471.3	7.5			
FM (30°-60°)	6765.3	34.3			
FH (60°-80°)	7263.5	36.8			G3/7500
FVH (80°-90°)	531.8	2.7			G4/750
BL (0°-30°)	944.5	4.8	B2/1000		
BM (30°-60°)	1679.9	8.5	B2/2500		
BH (60°-80°)	980.6	5.0	B2/1000		G2/1000
BVH (80°-90°)	96.1	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°	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9
2.5°	3652.7	3640.0	3652.7	3647.4	3645.3	3641.1	3642.1	3649.5	3645.3	3650.6
5°	3628.3	3620.9	3633.6	3630.4	3644.2	3646.4	3660.2	3668.7	3674.0	3675.0
7.5°	3588.0	3580.5	3598.6	3613.5	3643.2	3651.7	3680.3	3694.1	3701.6	3714.3
10°	3440.4	3437.2	3481.8	3538.1	3608.1	3651.7	3695.2	3718.5	3730.2	3764.2
12.5°	3179.3	3183.5	3241.9	3350.2	3490.3	3630.4	3712.2	3746.1	3764.2	3806.7
15°	2929.8	2928.8	2992.5	3108.2	3304.6	3537.0	3720.7	3779.1	3809.8	3872.5
17.5°	2785.5	2781.2	2825.8	2913.9	3096.5	3393.7	3699.4	3797.1	3862.9	3941.5
20°	2758.9	2750.4	2773.8	2817.3	2946.8	3236.6	3644.2	3797.1	3905.4	4007.3
22.5°	2855.5	2841.7	2832.2	2826.9	2884.2	3107.1	3581.6	3784.4	3968.0	4101.8
25°	3049.8	3028.6	2979.7	2932.0	2915.0	3048.7	3526.4	3781.2	4061.4	4229.1
27.5°	3364.0	3337.5	3238.7	3124.1	3021.1	3078.4	3502.0	3800.3	4164.4	4364.0
30°	3753.6	3724.9	3600.7	3424.5	3239.8	3188.8	3532.8	3856.5	4296.0	4543.4
32.5°	4102.8	4071.0	3964.8	3785.4	3536.0	3379.9	3630.4	3963.8	4503.0	4792.8
35°	4412.8	4375.6	4280.1	4114.5	3899.0	3648.5	3806.7	4153.8	4797.1	5198.3
37.5°	4716.4	4672.9	4568.8	4393.7	4242.9	4006.2	4049.7	4397.9	5187.7	5690.9
40°	5056.1	4993.4	4867.1	4694.1	4547.6	4425.5	4369.3	4697.3	5584.7	6240.7
42.5°	5385.2	5325.7	5175.0	5027.4	4843.8	4808.7	4739.7	5047.6	6018.9	6844.8
45°	5739.7	5668.6	5486.0	5299.2	5183.5	5063.5	5098.5	5397.9	6444.6	7460.4
47.5°	6072.0	5992.3	5776.9	5568.8	5505.1	5277.9	5427.6	5783.2	6887.2	8084.6
50°	6251.4	6172.8	5993.4	5805.5	5755.6	5542.3	5784.3	6206.8	7351.1	8706.7
52.5°	6401.0	6316.1	6081.5	5977.5	5962.6	5829.9	6223.8	6690.8	7815.0	9256.6
55°	6560.3	6465.8	6166.4	6073.0	6141.0	6152.6	6745.0	7239.7	8305.4	9792.6
57.5°	6743.9	6624.0	6248.2	6153.7	6315.1	6530.5	7343.7	7808.6	8787.4	10289.4
60°	6916.9	6795.9	6405.3	6282.1	6502.9	6969.0	8030.5	8497.6	9333.0	10732.1
62.5°	6950.9	6851.1	6530.5	6529.5	6757.7	7480.6	8843.6	9192.9	9809.6	11169.4
65°	6362.8	6300.2	6110.2	6519.9	7122.9	8217.3	9749.1	10082.4	10415.8	11551.6
67.5°	4842.7	4851.2	4837.4	5628.2	6827.8	9275.7	11060.1	11034.6	11164.1	11980.5
70°	2214.4	2264.2	2589.1	3885.2	5470.1	9397.7	13227.8	12897.6	12103.6	12535.6
72.5°	1196.3	1234.6	1367.3	1882.1	3288.6	8355.3	14847.7	15082.3	13353.0	12909.3
75°	877.9	899.1	991.5	1196.3	1381.1	6210.0	14267.0	15470.8	13509.1	12037.8
77.5°	657.1	666.6	742.0	947.9	707.0	3273.8	11399.8	12812.7	11564.3	9890.3
80°	476.6	487.2	543.5	711.2	495.7	1197.4	7827.7	8993.3	7920.1	6304.4
82.5°	329.1	333.3	357.7	484.1	346.1	465.0	4441.5	5273.7	4421.3	2212.2
85°	198.5	203.8	214.4	282.4	196.4	220.8	1917.1	1982.9	1321.6	528.6
87.5°	81.7	87.0	95.5	118.9	77.5	61.6	316.3	397.0	247.3	155.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3621.9	0°	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9
3632.6	2.5°	3627.3	3619.8	3599.7	3572.1	3546.6	3514.7	3500.9	3489.3	3478.6	3458.5
3661.2	5°	3649.5	3629.4	3575.2	3505.2	3425.6	3338.5	3253.6	3195.2	3145.3	3108.2
3694.1	7.5°	3683.5	3645.3	3546.6	3403.3	3220.7	3033.9	2865.1	2745.1	2654.9	2622.0
3740.8	10°	3718.5	3672.9	3500.9	3248.3	2933.0	2645.3	2421.4	2298.2	2226.0	2202.7
3796.0	12.5°	3759.9	3693.1	3429.8	3032.8	2611.4	2296.1	2100.8	2028.6	1991.4	1978.7
3864.0	15°	3820.5	3710.1	3322.6	2763.2	2304.6	2041.3	1915.0	1865.1	1846.0	1844.9
3934.0	17.5°	3866.1	3713.2	3155.9	2474.4	2068.9	1887.4	1783.4	1764.3	1777.0	1796.1
4003.0	20°	3917.1	3684.6	2937.3	2211.2	1903.3	1752.6	1709.1	1721.8	1752.6	1780.2
4094.3	22.5°	3953.1	3632.6	2672.9	2006.3	1760.0	1675.1	1673.0	1699.5	1716.5	1730.3
4201.5	25°	3985.0	3544.5	2392.7	1834.3	1642.2	1628.4	1651.7	1643.3	1631.6	1643.3
4308.8	27.5°	4008.3	3405.4	2142.2	1683.6	1559.4	1596.5	1582.7	1563.6	1562.6	1568.9
4435.1	30°	4000.9	3219.6	1936.2	1540.3	1501.0	1537.1	1504.2	1501.0	1497.8	1501.0
4625.1	32.5°	4000.9	3008.4	1778.1	1441.6	1463.9	1450.1	1446.9	1439.4	1426.7	1425.6
4883.0	35°	4023.2	2797.1	1642.2	1388.5	1433.1	1400.2	1402.3	1384.2	1357.7	1345.0
5224.9	37.5°	4068.9	2627.3	1507.4	1363.0	1378.9	1377.9	1369.4	1338.6	1291.9	1251.5
5651.6	40°	4179.3	2577.4	1415.0	1351.3	1353.5	1366.2	1343.9	1284.5	1178.3	1112.5
6084.7	42.5°	4352.3	2661.3	1394.9	1322.7	1336.5	1349.2	1305.7	1167.7	1092.3	1053.0
6539.0	45°	4572.0	2807.8	1438.4	1281.3	1296.1	1318.4	1188.9	1123.1	1089.1	1090.2
6989.1	47.5°	4850.1	2961.7	1519.1	1245.2	1237.7	1250.5	1111.4	1071.1	1024.4	1036.1
7421.2	50°	5171.8	3117.7	1595.5	1196.3	1173.0	1131.6	1061.5	1023.3	963.9	936.3
7838.4	52.5°	5520.0	3268.5	1626.3	1136.9	1102.9	1055.2	1027.6	980.9	908.7	863.0
8232.2	55°	5850.1	3405.4	1592.3	1065.8	1032.9	995.7	991.5	962.8	885.3	821.6
8582.5	57.5°	6162.2	3520.0	1507.4	993.6	961.7	939.5	968.1	954.3	856.7	774.9
8913.7	60°	6426.5	3598.6	1384.2	920.3	898.1	886.4	929.9	925.7	816.3	725.0
9210.9	62.5°	6636.7	3629.4	1248.4	850.3	845.0	823.7	876.8	876.8	765.4	676.2
9472.1	65°	6801.2	3599.7	1110.4	781.3	791.9	760.1	812.1	805.7	711.2	632.7
9772.5	67.5°	6946.7	3502.0	957.5	713.3	737.8	697.4	744.1	729.3	651.8	589.2
10032.5	70°	7011.4	3274.8	783.4	645.4	675.1	635.9	676.2	648.6	584.9	542.4
9747.0	72.5°	6491.3	2721.8	616.8	574.3	599.8	567.9	603.0	571.1	512.7	493.6
8416.9	75°	5370.3	2042.4	474.5	496.8	515.9	491.5	514.8	491.5	438.4	452.2
6217.4	77.5°	3900.1	1378.9	363.0	415.1	423.6	410.8	431.0	404.4	356.7	353.5
3098.6	80°	1939.4	807.8	284.5	328.0	324.8	316.3	339.7	327.0	286.6	303.6
836.5	82.5°	561.6	346.1	207.0	230.4	224.0	226.1	243.1	249.5	373.7	370.5
260.1	85°	176.2	135.9	124.2	128.4	122.1	125.3	143.3	284.5	263.3	153.9
80.7	87.5°	45.6	46.7	30.8	32.9	34.0	40.3	45.6	173.0	82.8	54.1
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>
3621.9
3448.9
3077.4
2564.7
2166.6
1981.9
1849.2
1803.5
1789.7
1737.7
1650.7
1579.6
1512.7
1439.4
1357.7
1265.3
1121.0
1053.0
1095.5
1065.8
943.7
862.0
821.6
770.7
721.8
673.0
628.4
584.9
534.0
477.7
412.9
337.6
300.4
379.0
166.7
57.3
0.0

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