

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: P952511

Luminaire Tested: **GALN-SB6B-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31094 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

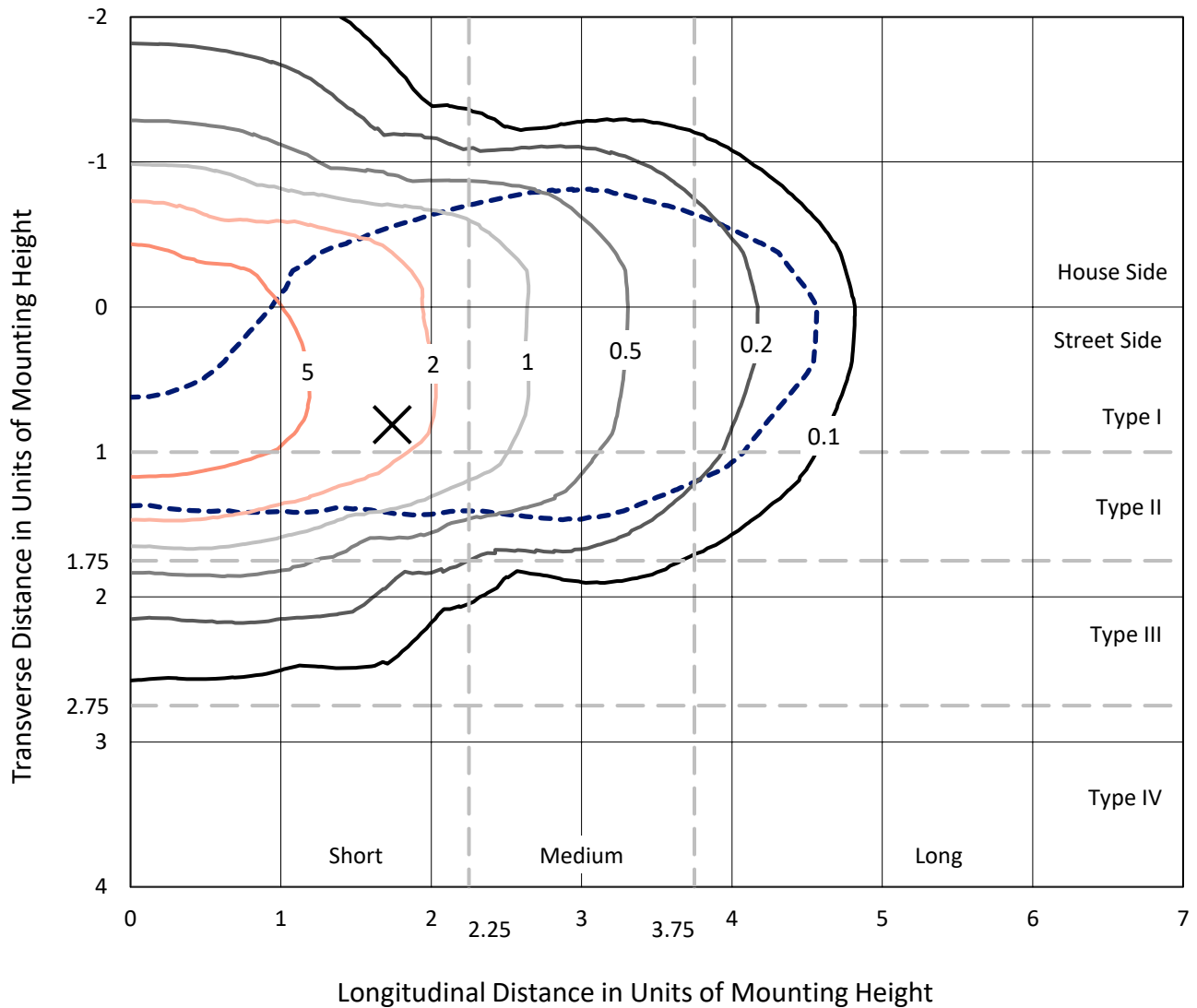
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

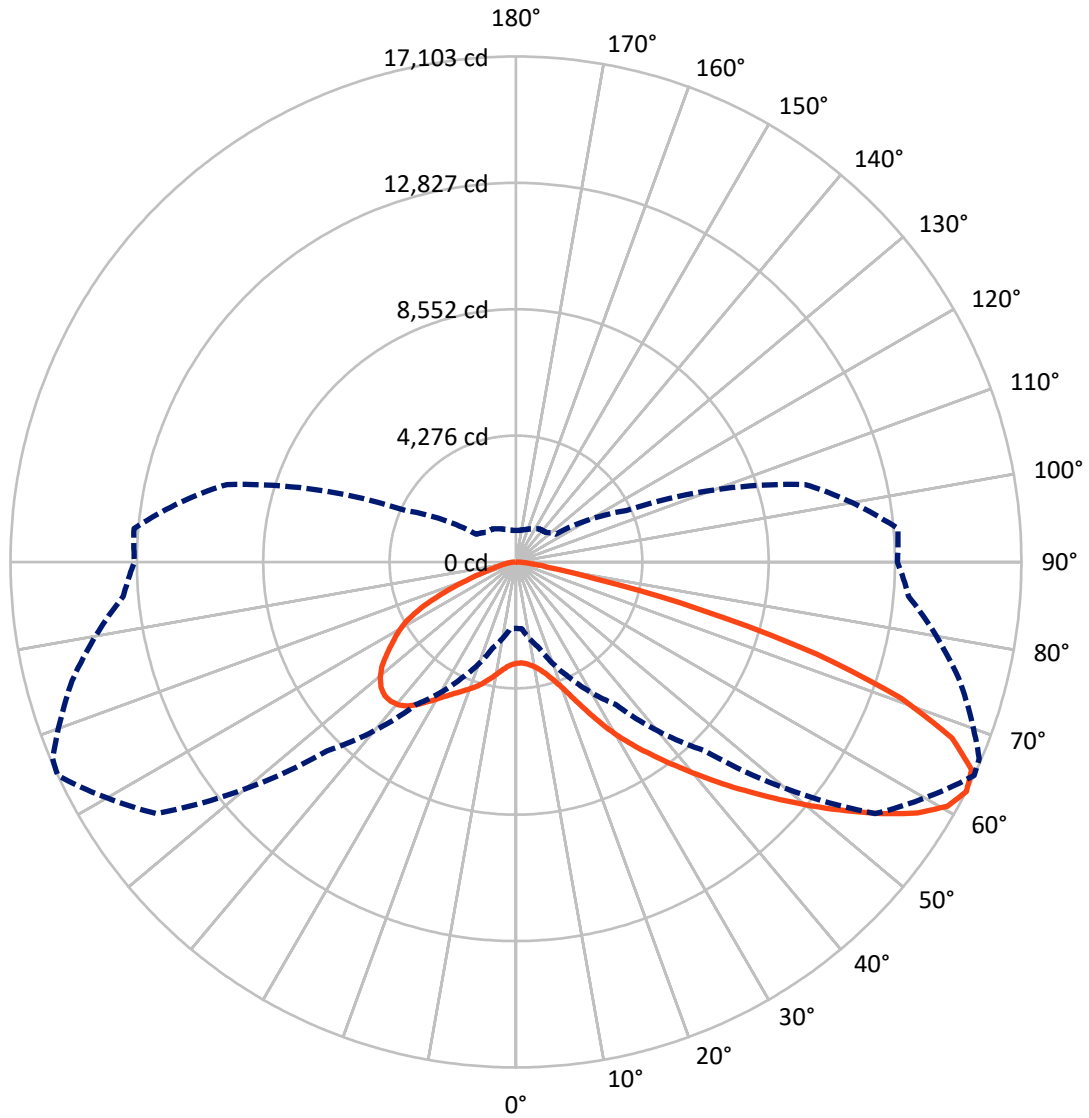
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9811.9	0.0	9811.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	21282.1	0.0	21282.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	31094.0	0.0	31094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.6	1.1
10°-20°	1158.4	3.7
20°-30°	2348.8	7.6
30°-40°	4064.6	13.1
40°-50°	6151.0	19.8
50°-60°	7211.7	23.2
60°-70°	6046.2	19.4
70°-80°	3338.0	10.7
80°-90°	433.6	1.4
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°	31094.0	100.0
0°-180°	31094.0	100.0

Coefficient of Utilization



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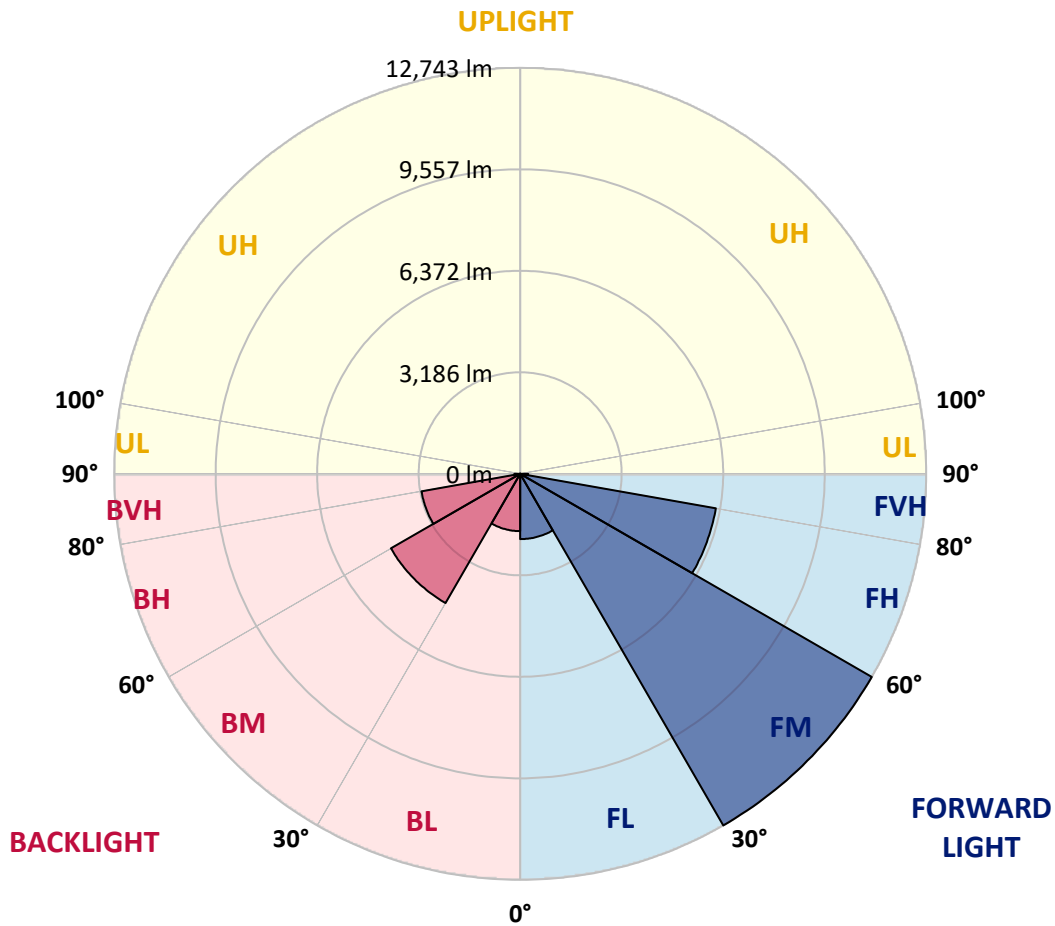
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2049.5	6.6			
FM (30°-60°)	12743.3	41.0			
FH (60°-80°)	6236.5	20.1			G3/7500
FVH (80°-90°)	252.7	0.8			G3/500
BL (0°-30°)	1799.4	5.8	B3/2500		
BM (30°-60°)	4684.1	15.1	B3/5000		
BH (60°-80°)	3147.6	10.1	B4/5000		G4/5000
BVH (80°-90°)	180.9	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4
2.5°	3403.8	3394.2	3402.2	3402.2	3405.5	3403.8	3415.1	3418.4	3423.2	3432.9
5°	3370.0	3368.3	3382.9	3395.8	3408.7	3420.0	3434.5	3455.5	3458.7	3470.0
7.5°	3358.7	3349.0	3371.6	3387.7	3418.4	3445.8	3484.5	3520.0	3534.5	3539.3
10°	3445.8	3429.7	3450.6	3460.3	3486.1	3513.5	3558.7	3615.2	3631.3	3650.7
12.5°	3594.2	3576.5	3607.1	3621.6	3645.8	3670.0	3700.7	3755.5	3763.6	3799.1
15°	3797.5	3776.5	3795.8	3813.6	3853.9	3876.5	3907.2	3960.4	3960.4	3987.8
17.5°	4073.3	4045.9	4060.4	4066.9	4092.7	4126.6	4178.2	4225.0	4249.2	4239.5
20°	4484.7	4450.8	4450.8	4418.5	4408.9	4436.3	4504.0	4568.6	4594.4	4544.4
22.5°	5102.5	5054.1	5026.7	4917.0	4873.5	4876.7	4944.4	5023.5	5044.5	4955.7
25°	5888.2	5812.3	5775.2	5613.9	5515.5	5430.0	5483.2	5584.9	5613.9	5504.2
27.5°	6673.8	6678.6	6643.1	6449.5	6286.6	6130.1	6102.7	6209.2	6239.8	6115.6
30°	7775.6	7661.1	7593.3	7361.0	7128.7	6909.3	6796.4	6839.9	6848.0	6699.6
32.5°	8725.8	8696.7	8551.5	8348.3	8049.8	7706.2	7517.5	7448.1	7435.2	7223.9
35°	9808.2	9792.1	9638.8	9396.9	9074.2	8596.7	8256.3	8057.9	8041.8	7744.9
37.5°	10908.4	10908.4	10758.4	10493.8	10159.9	9563.0	9045.2	8730.6	8679.0	8291.8
40°	11786.0	11732.8	11760.2	11648.9	11266.5	10632.6	9921.1	9464.6	9395.2	8930.6
42.5°	12284.5	12266.7	12431.3	12555.5	12399.0	11892.5	10885.8	10259.9	10163.1	9634.0
45°	12395.8	12376.4	12670.0	13124.9	13344.3	13136.2	11934.4	11097.2	10979.4	10369.6
47.5°	12139.3	12100.6	12531.3	13249.2	13952.5	14318.7	13070.1	12005.4	11834.4	11085.9
50°	11368.2	11331.1	11982.8	12936.2	14157.4	15122.1	14302.6	12968.5	12707.1	11853.7
52.5°	9692.1	9709.8	10731.0	12040.9	13888.0	15622.2	15364.1	13983.2	13668.6	12639.4
55°	7549.7	7588.5	8843.5	10285.7	12810.4	15546.4	16088.4	15028.5	14715.6	13378.2
57.5°	5405.8	5576.8	6752.8	8180.5	10740.6	14344.5	16246.5	16022.2	15719.0	14184.8
60°	3503.9	3534.5	4744.4	6183.4	8178.9	12208.7	15925.5	16775.6	16538.5	15007.5
62.5°	2245.6	2266.5	3003.8	4325.0	5886.5	9032.3	14844.6	17103.1	17030.5	15551.2
65°	1650.3	1634.2	2018.1	2858.6	3965.2	5570.4	12745.8	16945.0	17088.6	15891.6
67.5°	1377.7	1355.1	1543.8	1979.4	2921.5	3163.5	9430.7	15917.4	16443.3	15852.9
70°	1255.1	1235.7	1350.2	1469.6	2279.4	2118.1	4754.1	13838.0	14647.8	15412.5
72.5°	1063.1	1029.2	1185.7	1305.1	1772.9	1624.5	1964.9	10629.3	11616.6	14000.9
75°	824.3	801.8	935.7	1148.6	1332.5	1268.0	1242.2	6454.4	7532.0	10827.8
77.5°	653.3	622.7	745.3	895.3	1198.6	956.6	905.0	2779.5	3847.5	6912.5
80°	492.0	464.6	566.2	708.2	921.1	721.1	585.6	1134.1	1450.3	3502.2
82.5°	350.1	325.9	395.2	519.4	619.5	646.9	359.7	635.6	714.6	1350.2
85°	224.2	209.7	264.6	325.9	393.6	416.2	219.4	332.3	364.6	556.6
87.5°	122.6	100.0	142.0	151.6	182.3	166.2	104.9	121.0	130.7	201.6
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°
3426.4	0°	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4
3432.9	2.5°	3439.3	3444.2	3460.3	3465.1	3476.4	3491.0	3500.6	3510.3	3510.3	3520.0
3484.5	5°	3486.1	3497.4	3531.3	3549.0	3578.1	3607.1	3624.8	3645.8	3658.7	3665.2
3566.8	7.5°	3576.5	3594.2	3642.6	3673.2	3723.3	3763.6	3791.0	3820.0	3826.5	3844.2
3681.3	10°	3699.1	3720.0	3774.9	3832.9	3892.6	3942.6	3968.5	3989.4	3997.5	4000.7
3828.1	12.5°	3839.4	3870.1	3941.0	4012.0	4074.9	4118.5	4124.9	4120.1	4097.5	4078.2
4008.8	15°	4012.0	4039.4	4118.5	4195.9	4257.2	4265.3	4225.0	4199.1	4171.7	4166.9
4210.4	17.5°	4218.5	4233.0	4305.6	4381.4	4386.3	4358.9	4299.2	4275.0	4249.2	4231.4
4473.4	20°	4458.9	4454.0	4505.7	4537.9	4504.0	4420.2	4329.8	4289.5	4263.7	4242.7
4796.0	22.5°	4746.0	4708.9	4702.5	4694.4	4604.1	4428.2	4305.6	4254.0	4213.7	4184.6
5246.1	25°	5163.8	5021.9	4923.5	4868.6	4665.4	4384.7	4228.2	4113.6	4037.8	3987.8
5796.2	27.5°	5686.5	5447.8	5199.3	5065.4	4665.4	4295.9	4041.1	3855.5	3731.3	3679.7
6328.6	30°	6185.0	5934.9	5568.7	5302.6	4654.1	4150.7	3739.4	3481.3	3336.1	3284.5
6783.5	32.5°	6610.9	6338.2	5960.8	5562.3	4626.6	3915.2	3365.1	3079.6	2939.2	2877.9
7233.6	35°	7006.1	6715.7	6354.4	5847.8	4554.0	3570.0	2953.8	2736.0	2579.5	2481.1
7691.7	37.5°	7411.0	7065.8	6727.0	6105.9	4423.4	3166.7	2637.6	2452.1	2268.2	2135.9
8178.9	40°	7851.4	7438.4	7125.5	6259.2	4208.8	2782.8	2392.4	2223.0	2027.8	1887.4
8740.3	42.5°	8366.0	7885.3	7569.1	6338.2	3915.2	2510.1	2232.7	2066.5	1882.6	1768.1
9342.0	45°	8903.2	8377.3	7974.0	6336.6	3587.7	2382.7	2181.0	2016.5	1813.2	1693.9
9959.9	47.5°	9466.2	8891.9	8324.1	6233.4	3303.8	2400.4	2152.0	1908.4	1684.2	1568.0
10584.2	50°	10030.8	9454.9	8662.9	6039.8	3182.8	2361.7	2043.9	1756.8	1492.2	1387.3
11169.8	52.5°	10590.6	10053.4	8954.8	5763.9	3060.2	2218.1	1905.2	1560.0	1413.2	1340.6
11774.7	55°	11153.6	10645.5	9272.6	5362.3	2753.7	2050.4	1672.9	1485.8	1350.2	1284.1
12366.7	57.5°	11718.2	11329.5	9574.3	4960.6	2368.2	1843.9	1545.4	1395.4	1287.3	1230.9
12862.0	60°	12305.4	12111.9	9885.7	4591.2	1987.5	1579.3	1451.9	1322.8	1213.1	1150.2
13337.9	62.5°	12910.4	12973.3	10129.2	4115.3	1637.4	1418.0	1368.0	1235.7	1129.2	1069.5
13731.5	65°	13520.2	13804.1	10289.0	3455.5	1327.7	1264.7	1277.6	1140.5	1032.4	980.8
14020.3	67.5°	13979.9	14402.6	10243.8	2615.0	1088.9	1119.6	1164.7	1040.5	938.9	898.5
13973.5	70°	14031.6	14331.6	9798.5	1790.6	911.5	977.6	1038.9	942.1	837.2	808.2
13315.3	72.5°	13344.3	13363.7	8558.0	1169.6	771.1	858.2	906.6	842.1	740.5	711.4
11648.9	75°	11542.4	11052.0	6283.4	771.1	645.3	737.2	782.4	737.2	638.8	645.3
8716.1	77.5°	8745.1	7827.2	3815.2	548.5	538.8	619.5	680.8	648.5	564.6	634.0
4383.0	80°	4505.7	4234.6	1701.9	409.8	425.9	495.3	559.8	517.8	446.9	425.9
979.2	82.5°	1032.4	1200.2	671.1	293.6	308.1	356.5	427.5	388.8	321.0	271.0
408.1	85°	361.4	395.2	296.8	183.9	180.7	222.6	290.4	259.7	217.8	174.2
172.6	87.5°	114.5	150.0	111.3	74.2	77.4	100.0	133.9	122.6	101.6	66.1
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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180°
3426.4
3520.0
3668.4
3837.8
3992.7
4078.2
4166.9
4233.0
4244.3
4194.3
4007.2
3705.5
3315.1
2908.6
2513.4
2171.4
1914.9
1790.6
1713.2
1584.2
1393.8
1340.6
1277.6
1221.2
1145.4
1067.9
979.2
900.2
809.8
709.8
622.7
558.2
388.8
267.8
183.9
69.4
0.0

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