

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: P943857

Luminaire Tested: **GALN-SB8C-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8C-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64112 lumens
Efficiency: N/A
Efficacy: 160.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

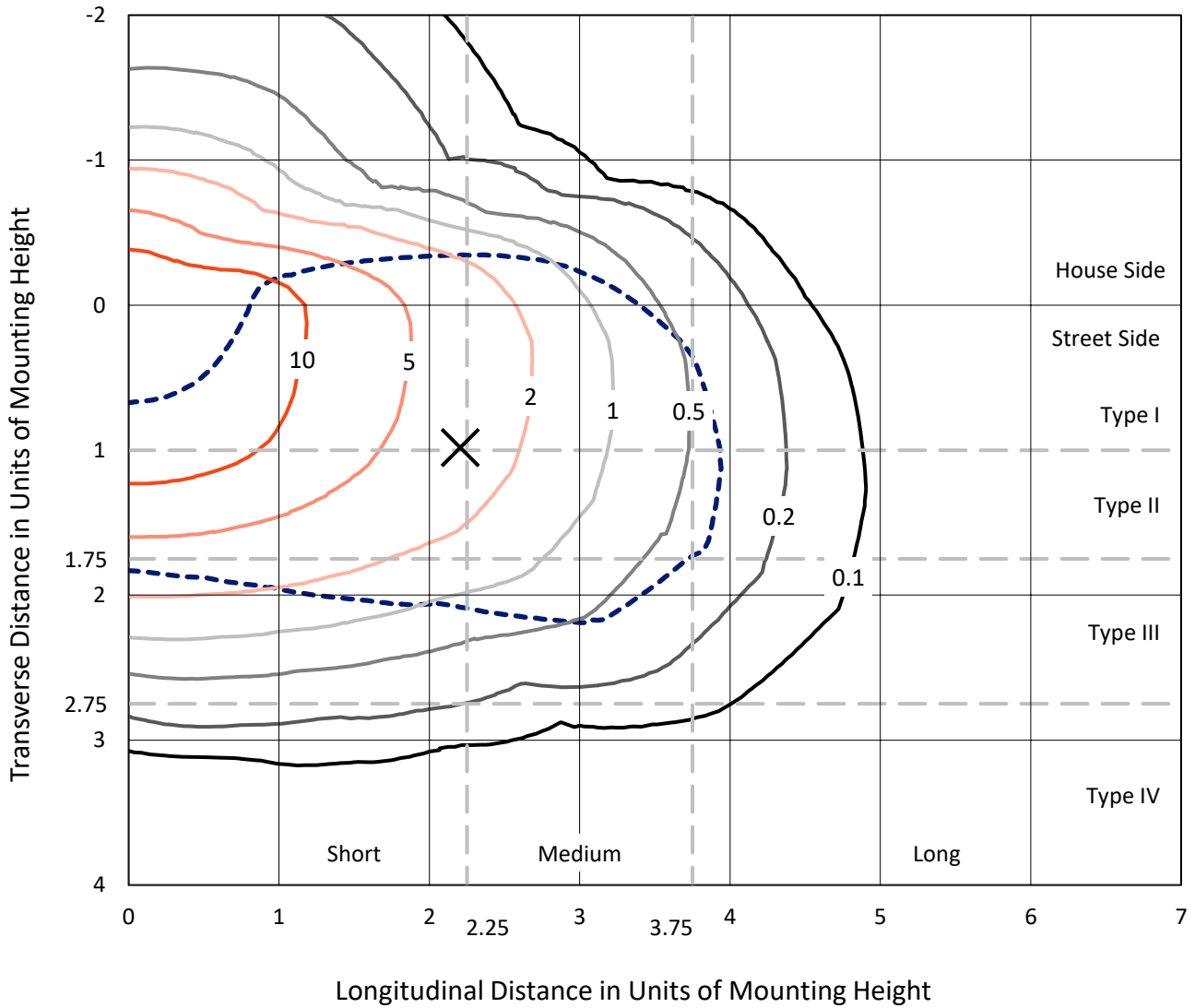
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

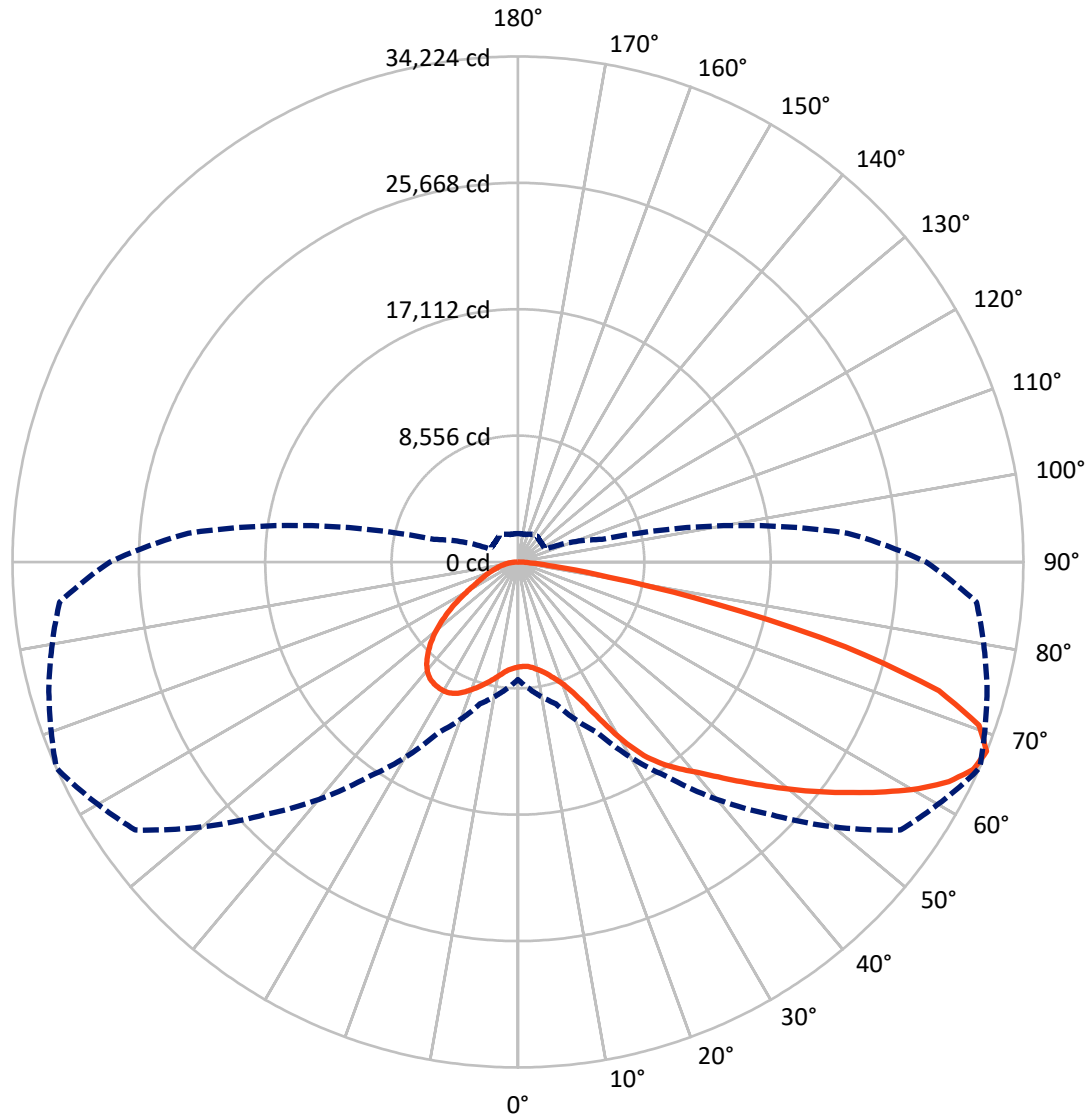
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15941.3	0.0	15941.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	48170.7	0.0	48170.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	64112.0	0.0	64112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.0	1.1
10°-20°	2329.3	3.6
20°-30°	4489.6	7.0
30°-40°	7871.8	12.3
40°-50°	11702.8	18.3
50°-60°	14834.5	23.1
60°-70°	14515.2	22.6
70°-80°	6923.9	10.8
80°-90°	740.0	1.2
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°	64112.0	100.0
0°-180°	64112.0	100.0

Coefficient of Utilization



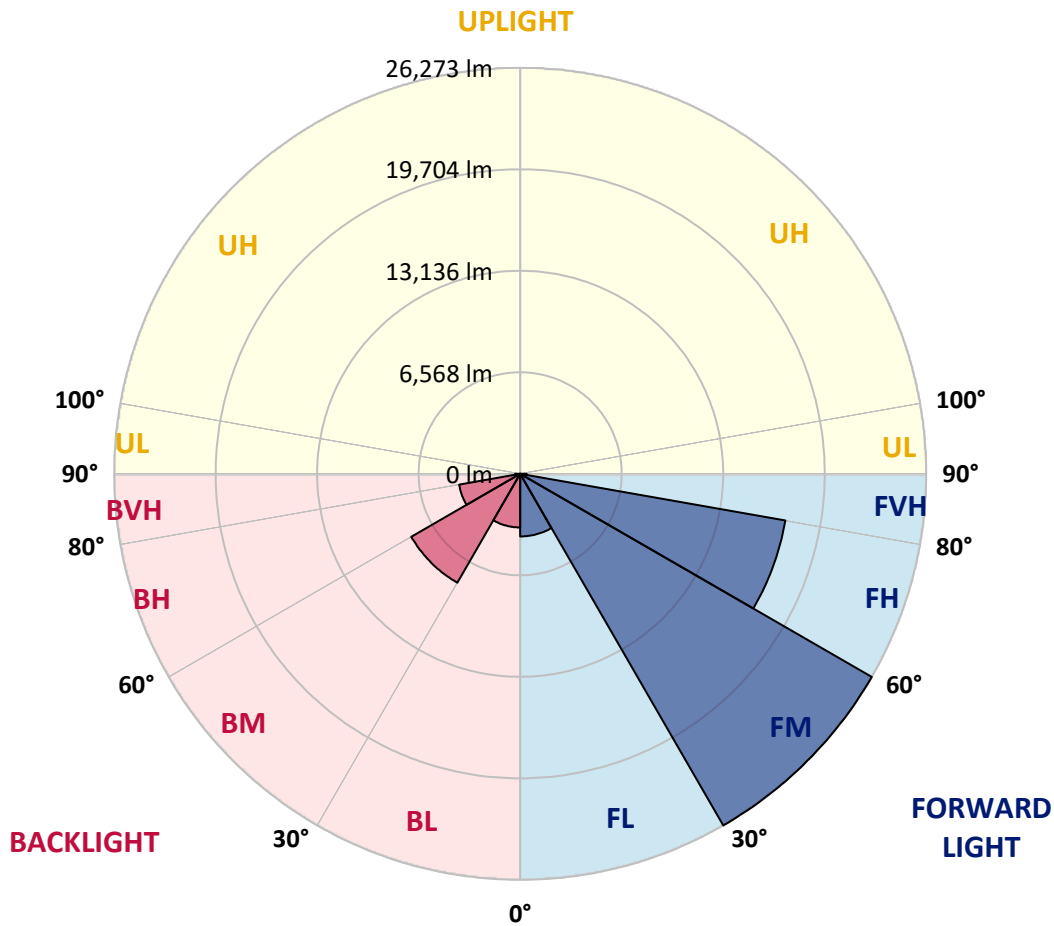
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4051.2	6.3			
FM (30°-60°)	26272.6	41.0			
FH (60°-80°)	17427.4	27.2			G5
FVH (80°-90°)	419.5	0.7			G3/500
BL (0°-30°)	3472.6	5.4	B4/5000		
BM (30°-60°)	8136.6	12.7	B4/8500		
BH (60°-80°)	4011.7	6.3	B4/5000		G4/5000
BVH (80°-90°)	320.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	7110.9	7110.9	7110.9	7110.9	7110.9	7110.9	7110.9	7110.9	7110.9	7110.9
2.5°	7036.8	7077.2	7067.1	7050.2	7046.9	7053.6	7063.7	7073.8	7070.4	7087.3
5°	7016.6	7057.0	7053.6	7053.6	7067.1	7094.0	7110.9	7127.7	7110.9	7131.1
7.5°	7030.0	7060.3	7073.8	7087.3	7121.0	7171.5	7211.9	7249.0	7228.8	7252.3
10°	7201.8	7225.4	7238.9	7238.9	7262.4	7319.7	7360.1	7427.5	7410.7	7447.7
12.5°	7515.1	7538.7	7538.7	7525.2	7542.0	7579.1	7592.6	7666.7	7636.4	7697.0
15°	7899.1	7946.3	7909.2	7885.6	7892.4	7929.4	7926.0	7983.3	7953.0	8003.5
17.5°	8323.5	8384.2	8323.5	8320.2	8306.7	8347.1	8350.5	8401.0	8347.1	8384.2
20°	8825.4	8909.6	8859.1	8876.0	8845.6	8862.5	8879.3	8953.4	8869.2	8896.2
22.5°	9532.8	9633.9	9580.0	9644.0	9623.8	9610.3	9606.9	9738.3	9606.9	9617.0
25°	10563.6	10684.8	10590.5	10678.1	10678.1	10721.9	10772.4	10940.8	10721.9	10657.9
27.5°	12086.1	12207.4	12022.1	12076.0	12059.2	12167.0	12113.1	12530.8	12295.0	12190.5
30°	13918.6	14134.2	13783.8	13770.4	13753.5	13925.3	14002.8	14279.0	14039.8	13935.4
32.5°	15899.2	16124.9	15707.2	15586.0	15522.0	15626.4	15562.4	15784.7	15619.7	15458.0
35°	17994.4	18216.8	17819.3	17583.5	17327.5	17108.5	16879.5	16936.7	16781.8	16535.9
37.5°	19975.1	20382.7	19961.6	19709.0	19237.4	18809.6	18169.6	17903.5	17758.6	17533.0
40°	21992.8	22225.3	21905.2	21689.7	21177.7	20507.3	19483.3	18920.8	18725.4	18506.4
42.5°	23478.3	23700.6	23528.9	23380.6	22979.8	22201.7	20877.9	20173.8	19890.9	19645.0
45°	24657.3	24822.4	24714.6	24768.5	24596.7	23842.1	22322.9	21517.9	21224.8	20925.0
47.5°	25132.3	25307.4	25479.2	25799.2	26092.3	25536.5	23875.8	22973.1	22663.2	22356.6
50°	25078.4	25256.9	25755.4	26435.9	27345.3	27160.1	25512.9	24522.6	24236.2	23885.9
52.5°	24647.2	24849.3	25489.3	26621.1	28069.6	28376.1	27180.3	26122.6	25853.1	25435.4
55°	23515.4	23636.6	24596.7	26200.1	28241.4	29225.0	28814.0	27827.0	27557.6	26974.8
57.5°	21416.8	21592.0	22989.9	25064.9	27810.2	29801.0	30249.0	29619.1	29359.7	28520.9
60°	18678.2	18957.8	20557.9	23158.3	26712.1	29797.6	31552.6	31380.8	31165.2	30043.5
62.5°	15579.2	15902.6	17442.0	20463.5	24792.0	28952.1	32367.8	32856.2	32745.0	31448.2
65°	11964.9	12187.2	13719.8	16977.2	21804.2	27136.5	32462.1	33863.4	33883.6	32516.0
67.5°	7966.5	8606.5	9937.0	12739.6	17802.4	24168.9	31633.4	34028.4	34223.8	32883.1
70°	3887.2	4729.4	6033.0	8279.7	12739.6	19618.0	29467.5	32674.3	33108.8	31812.0
72.5°	1613.5	1886.4	2597.1	4086.0	7313.0	13238.1	25115.4	29002.6	29807.7	28187.5
75°	1088.0	1179.0	1485.5	2095.2	3331.4	6528.1	18112.3	21625.7	22922.5	21288.8
77.5°	838.8	896.0	1081.3	1465.3	1980.7	2469.1	9694.5	13032.7	13703.0	12685.7
80°	660.2	704.0	808.4	1067.8	1404.7	1320.4	3304.5	5905.0	6292.3	5278.4
82.5°	572.6	589.5	579.4	724.2	933.1	771.4	1084.7	2179.4	2405.1	1744.9
85°	414.3	461.5	481.7	448.0	495.2	390.7	444.6	771.4	848.9	757.9
87.5°	168.4	249.3	306.5	289.7	181.9	111.2	138.1	225.7	259.4	283.0
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°
7110.9	0°	7110.9	7110.9	7110.9	7110.9	7110.9	7110.9	7110.9	7110.9	7110.9	7110.9
7114.2	2.5°	7117.6	7141.2	7158.0	7178.2	7191.7	7211.9	7252.3	7275.9	7279.3	7296.1
7168.1	5°	7181.6	7215.3	7252.3	7306.2	7366.9	7417.4	7494.9	7548.8	7569.0	7585.8
7299.5	7.5°	7319.7	7366.9	7434.2	7528.6	7616.1	7683.5	7777.8	7841.8	7905.8	7929.4
7508.3	10°	7525.2	7592.6	7690.2	7818.2	7912.6	8000.1	8097.8	8151.7	8215.7	8242.7
7757.6	12.5°	7781.2	7851.9	7979.9	8158.5	8246.0	8306.7	8340.4	8326.9	8340.4	8363.9
8057.4	15°	8074.3	8151.7	8296.6	8488.6	8549.2	8495.3	8421.2	8353.8	8343.7	8350.5
8421.2	17.5°	8421.2	8478.5	8646.9	8808.6	8764.8	8542.5	8380.8	8273.0	8219.1	8202.3
8886.1	20°	8906.3	8906.3	9044.4	9145.4	8852.4	8475.1	8222.5	8047.3	7936.1	7889.0
9519.3	22.5°	9495.8	9441.9	9529.4	9458.7	8835.5	8286.5	7936.1	7633.0	7464.6	7397.2
10405.2	25°	10243.6	10179.6	10156.0	9718.1	8714.3	7986.7	7417.4	7050.2	6902.0	6865.0
11681.9	27.5°	11372.0	11210.3	10903.8	9859.6	8491.9	7515.1	6811.1	6470.9	6386.6	6390.0
13322.4	30°	12874.3	12551.0	11799.8	9883.1	8128.1	6848.1	6191.3	5948.7	5908.3	5925.2
14700.1	32.5°	14265.5	13959.0	12716.0	9775.3	7569.0	6194.6	5635.5	5473.8	5413.2	5433.4
15751.0	35°	15356.9	15272.7	13564.9	9623.8	6881.8	5581.6	5136.9	4998.8	4880.9	4854.0
16741.4	37.5°	16387.7	16354.0	14201.5	9411.5	6201.4	5147.0	4736.1	4554.2	4382.4	4288.1
17836.1	40°	17519.5	17485.8	14619.2	9084.8	5598.4	4769.8	4375.7	4136.5	3924.3	3752.5
19075.7	42.5°	18792.8	18594.0	14818.0	8616.6	5086.4	4449.8	4082.6	3759.2	3479.6	3321.3
20477.0	45°	20184.0	19735.9	14814.6	8020.4	4655.2	4156.7	3769.3	3311.2	3051.8	2903.6
21915.4	47.5°	21659.3	20827.3	14632.7	7360.1	4237.6	3833.3	3284.3	2933.9	2762.2	2671.2
23478.3	50°	23181.9	21848.0	14322.8	6602.2	3809.8	3466.2	2981.1	2741.9	2610.6	2526.4
25027.8	52.5°	24613.5	22774.3	13948.9	5743.3	3375.2	3109.1	2846.4	2661.1	2523.0	2428.7
26530.2	55°	25944.1	23572.6	13420.0	4864.1	3021.5	2869.9	2782.4	2627.4	2469.1	2357.9
28056.1	57.5°	27126.4	24091.4	12507.2	4038.8	2768.9	2704.9	2715.0	2570.2	2388.3	2293.9
29558.4	60°	28110.0	24472.0	11156.4	3274.2	2563.4	2543.2	2610.6	2462.4	2250.1	2142.4
30828.4	62.5°	28699.5	24465.3	9499.1	2681.3	2388.3	2395.0	2472.5	2327.6	2112.0	2011.0
31491.9	65°	28648.9	23865.7	7680.1	2293.9	2219.8	2226.6	2327.6	2179.4	1997.5	1936.9
31158.5	67.5°	27635.0	22403.8	5891.5	2041.3	2034.6	2064.9	2182.8	2078.4	1926.8	1920.0
29171.1	70°	24889.7	19368.8	4244.3	1839.2	1842.6	1886.4	2041.3	2014.4	1889.7	1903.2
24525.9	72.5°	19958.3	14767.4	2849.7	1627.0	1630.3	1701.1	1906.6	1963.8	1852.7	2031.2
17401.6	75°	13292.0	9209.4	1832.5	1401.3	1404.7	1495.6	1788.7	1866.1	1751.6	2024.5
9054.5	77.5°	6386.6	4139.9	1327.2	1179.0	1179.0	1263.2	1546.1	1670.8	1492.2	1573.1
2910.4	80°	2206.4	1556.2	1044.2	949.9	929.7	987.0	1303.6	1448.4	1286.8	1185.7
949.9	82.5°	869.1	808.4	838.8	737.7	670.3	707.4	1013.9	1195.8	946.5	855.6
535.6	85°	498.5	525.5	592.9	488.4	387.4	434.5	744.4	859.0	714.1	629.9
175.2	87.5°	134.7	185.3	272.8	252.6	175.2	185.3	353.7	475.0	411.0	316.6
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>
7110.9
7292.8
7582.5
7932.8
8256.2
8370.7
8374.0
8225.8
7878.9
7387.1
6871.7
6400.1
5982.4
5460.3
4874.2
4291.4
3769.3
3331.4
2896.9
2651.0
2496.0
2388.3
2314.1
2233.3
2095.2
1980.7
1933.5
1930.1
1899.8
2058.1
2041.3
1441.7
1111.6
852.2
643.4
326.7
0.0

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