

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: P957177

Luminaire Tested: **GALN-SB9C-835-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9C-835-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63147 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

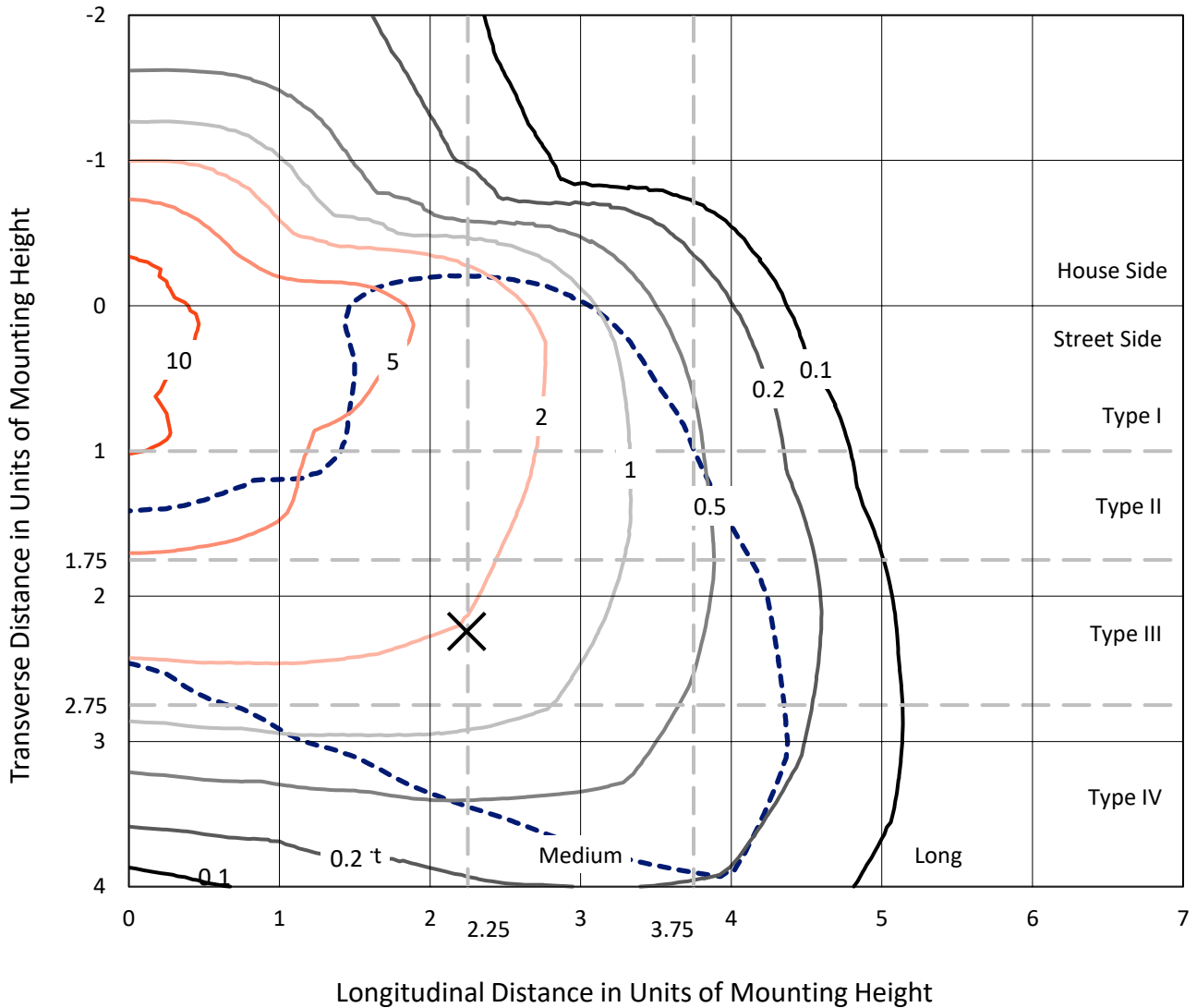
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

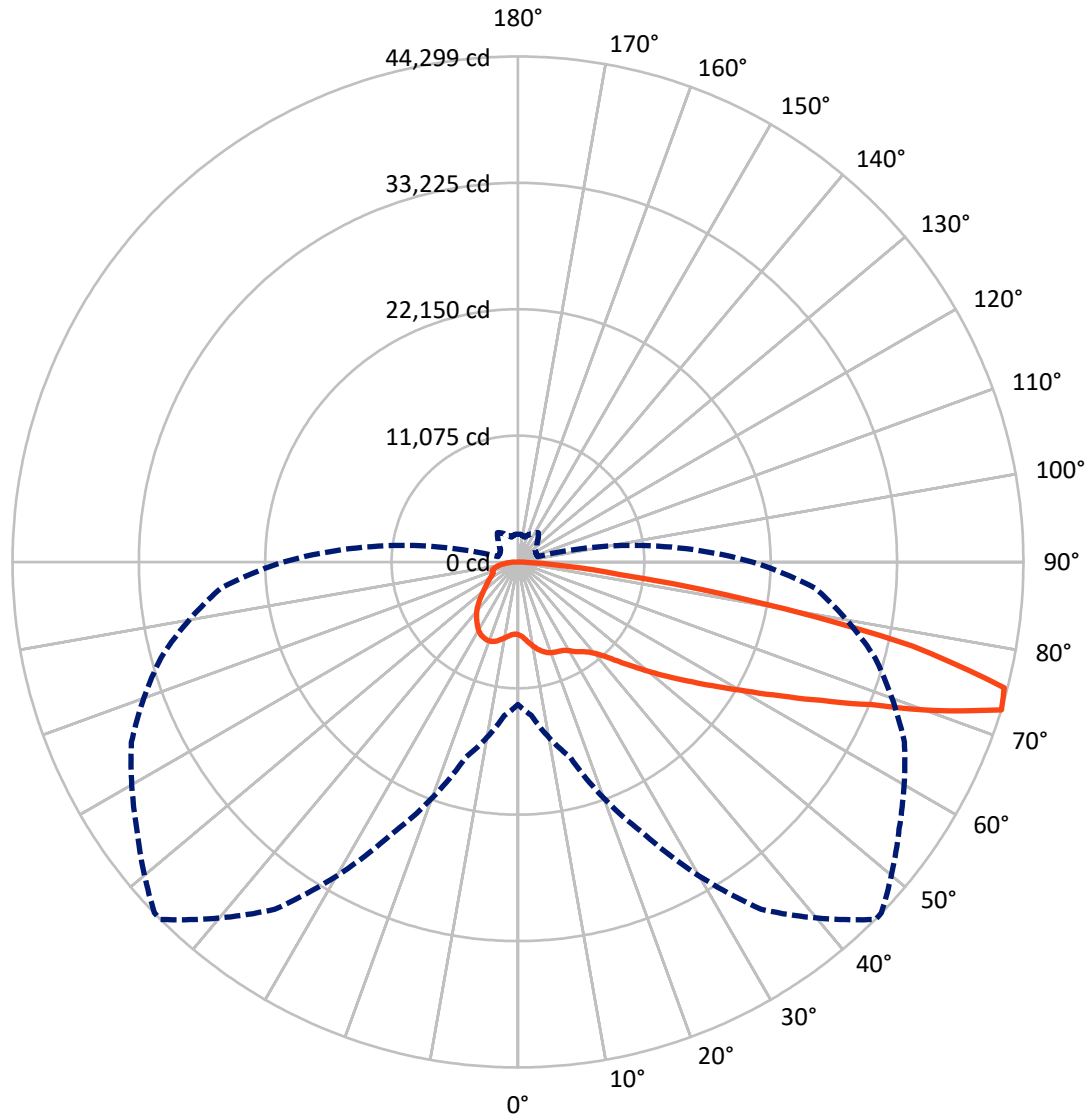
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14275.4	0.0	14275.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	48871.6	0.0	48871.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	63147.0	0.0	63147.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.4	1.0
10°-20°	2161.8	3.4
20°-30°	3760.5	6.0
30°-40°	5390.9	8.5
40°-50°	7590.7	12.0
50°-60°	11626.7	18.4
60°-70°	16842.9	26.7
70°-80°	13450.1	21.3
80°-90°	1675.2	2.7
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°	63147.0	100.0
0°-180°	63147.0	100.0



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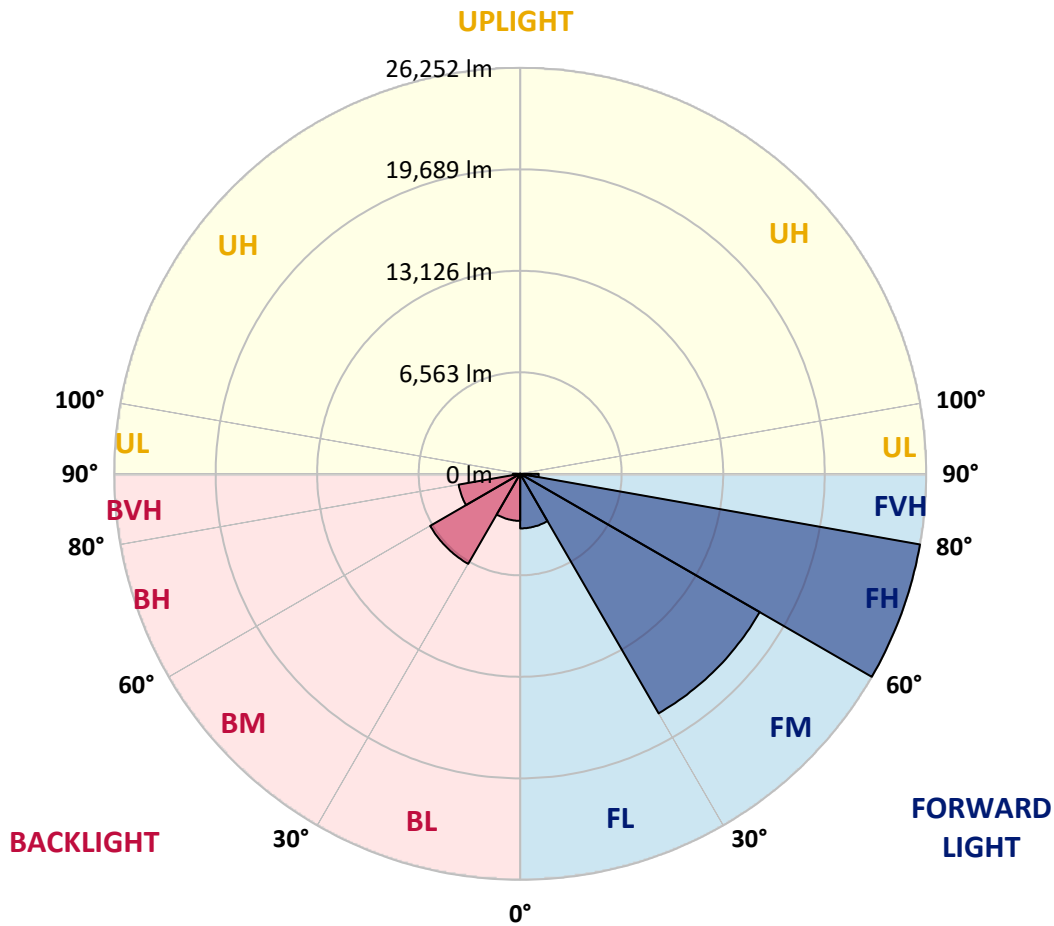
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3531.3	5.6			
FM (30°-60°)	17886.5	28.3			
FH (60°-80°)	26252.1	41.6			G5
FVH (80°-90°)	1201.8	1.9			G5
BL (0°-30°)	3039.3	4.8	B4/5000		
BM (30°-60°)	6721.7	10.6	B4/8500		
BH (60°-80°)	4041.0	6.4	B4/5000		G4/5000
BVH (80°-90°)	473.4	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	6370.3	6370.3	6370.3	6370.3	6370.3	6370.3	6370.3	6370.3	6370.3	6370.3
2.5°	6619.8	6663.0	6623.1	6586.5	6569.9	6526.7	6523.3	6496.7	6480.1	6433.5
5°	7082.2	7138.7	7072.2	6999.0	6932.5	6826.0	6812.7	6736.2	6649.7	6549.9
7.5°	7604.4	7654.3	7577.8	7468.1	7351.6	7175.3	7172.0	7032.3	6895.9	6726.2
10°	8060.2	8126.7	8023.6	7873.9	7727.5	7527.9	7504.6	7345.0	7172.0	6952.4
12.5°	8462.7	8509.3	8409.5	8226.5	8056.9	7857.3	7827.3	7651.0	7458.1	7208.6
15°	8782.0	8841.9	8708.9	8512.6	8333.0	8136.7	8110.1	7950.4	7757.5	7494.7
17.5°	8991.6	9041.5	8905.1	8685.6	8512.6	8349.6	8329.6	8196.6	8026.9	7760.8
20°	9071.4	9124.7	8981.6	8758.8	8599.1	8472.7	8462.7	8366.2	8249.8	8007.0
22.5°	9151.3	9201.2	9014.9	8782.0	8642.3	8562.5	8559.2	8496.0	8449.4	8249.8
25°	9474.0	9487.3	9237.8	8901.8	8702.2	8632.3	8629.0	8625.7	8645.6	8489.3
27.5°	9753.4	9750.1	9537.2	9221.1	8911.8	8765.4	8762.1	8795.3	8858.5	8728.8
30°	10162.5	10126.0	9873.1	9543.8	9261.1	9034.9	9014.9	8985.0	9034.9	8931.7
32.5°	11030.8	10914.3	10505.2	9919.7	9550.5	9377.5	9350.9	9164.6	9184.5	9121.3
35°	12274.9	12121.9	11576.3	10631.6	9909.7	9663.6	9650.3	9414.1	9374.2	9317.6
37.5°	13755.2	13565.6	12930.2	11662.8	10528.5	9996.2	9976.3	9763.4	9600.4	9540.5
40°	15242.2	15002.6	14477.1	12920.2	11439.9	10551.8	10488.5	10165.9	9979.6	9879.8
42.5°	16685.9	16486.3	16037.2	14330.7	12564.3	11363.4	11223.7	10671.5	10531.8	10438.6
45°	17963.3	17783.6	17454.3	15837.6	13881.6	12467.8	12331.4	11430.0	11386.7	11386.7
47.5°	19001.1	18961.2	18611.9	17374.5	15435.1	13725.3	13489.1	12484.5	12600.9	12780.5
50°	20152.1	20042.3	19669.8	18888.0	17261.4	15165.6	14972.7	13778.5	14214.3	14706.6
52.5°	21209.9	21269.8	20854.0	20464.8	19323.8	16772.4	16433.1	15305.4	16246.8	17061.8
55°	22297.7	22301.1	22184.6	22131.4	21486.1	18548.7	18176.2	17141.6	18638.5	19649.8
57.5°	23319.0	23325.6	23498.6	23967.6	23994.3	20597.9	20175.4	19397.0	21296.4	22327.7
60°	24230.4	24277.0	24749.4	25847.1	26199.7	22946.4	22547.2	22061.5	24044.2	25082.0
62.5°	24536.5	24706.1	25757.3	27317.5	28378.6	25827.2	25434.6	25145.2	26931.6	27896.3
65°	24017.5	24406.7	26439.3	28531.6	30620.7	29250.2	28861.0	28544.9	29932.1	30840.3
67.5°	22743.5	23245.8	26399.3	29805.7	33341.8	33368.4	33005.8	32264.0	33148.9	33498.1
70°	19387.0	20138.8	24074.1	30281.4	36465.4	39000.2	38650.9	36741.5	36359.0	34669.1
72.5°	12491.1	13502.4	17727.1	26366.1	37160.7	44299.4	44279.4	40783.2	37373.6	32393.7
75°	4557.3	5176.1	8236.5	16549.5	31192.9	44029.9	44159.7	40091.3	34116.9	25022.2
77.5°	1659.9	1816.3	2687.8	6360.3	19184.1	35327.7	35597.2	32051.1	24283.7	12557.6
80°	871.6	958.0	1377.2	2468.3	8219.9	20980.4	21402.9	19047.7	11413.3	3782.3
82.5°	482.3	522.3	771.8	1340.6	3702.4	8971.6	9224.5	7524.6	4015.1	1603.4
85°	259.5	276.1	362.6	731.8	1809.6	3110.3	3180.2	2248.7	1600.1	941.4
87.5°	76.5	93.1	119.8	232.9	708.6	698.6	715.2	445.8	632.0	475.7
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°
6370.3	0°	6370.3	6370.3	6370.3	6370.3	6370.3	6370.3	6370.3	6370.3	6370.3	6370.3
6420.2	2.5°	6400.2	6390.3	6353.7	6337.0	6317.1	6313.8	6330.4	6333.7	6337.0	6340.4
6493.4	5°	6460.1	6426.9	6393.6	6373.6	6380.3	6383.6	6416.9	6440.2	6456.8	6470.1
6629.8	7.5°	6576.5	6549.9	6493.4	6490.1	6500.0	6530.0	6573.2	6626.4	6656.4	6679.7
6806.1	10°	6749.5	6699.6	6633.1	6643.1	6663.0	6706.3	6796.1	6839.3	6889.2	6932.5
7022.3	12.5°	6925.8	6882.6	6806.1	6812.7	6846.0	6922.5	7009.0	7062.2	7095.5	7128.8
7255.2	15°	7155.4	7078.9	6995.7	6995.7	7055.6	7138.7	7178.6	7221.9	7241.9	7278.4
7504.6	17.5°	7391.5	7291.8	7182.0	7175.3	7248.5	7288.4	7311.7	7318.4	7325.0	7364.9
7747.5	20°	7627.7	7518.0	7361.6	7348.3	7364.9	7358.3	7355.0	7348.3	7358.3	7408.2
7997.0	22.5°	7860.6	7734.2	7518.0	7458.1	7411.5	7348.3	7345.0	7341.6	7348.3	7398.2
8266.4	25°	8133.4	7980.3	7690.9	7511.3	7355.0	7268.5	7278.4	7281.8	7288.4	7328.3
8545.9	27.5°	8429.4	8259.8	7850.6	7494.7	7211.9	7152.0	7135.4	7145.4	7168.7	7231.9
8825.3	30°	8725.5	8525.9	7997.0	7428.1	7032.3	6949.1	6895.9	6919.2	6992.4	7055.6
9068.1	32.5°	8994.9	8795.3	8113.4	7281.8	6802.8	6673.0	6603.2	6633.1	6706.3	6729.6
9337.6	35°	9311.0	9084.8	8163.3	7048.9	6553.3	6353.7	6260.5	6217.3	6253.9	6230.6
9653.6	37.5°	9663.6	9427.4	8156.6	6742.9	6260.5	6031.0	5901.3	5738.3	5661.8	5581.9
10119.3	40°	10185.8	9846.5	8076.8	6373.6	5897.9	5688.4	5455.5	5179.4	5006.4	4850.1
10871.1	42.5°	10897.7	10428.7	7930.4	5967.8	5488.8	5292.5	4976.5	4653.8	4381.0	4121.6
12012.1	45°	11958.9	11190.4	7747.5	5535.3	5046.3	4853.4	4510.8	4148.2	3838.8	3506.2
13632.1	47.5°	13489.1	12215.0	7574.5	5043.0	4580.6	4404.3	4095.0	3759.0	3393.1	3070.4
15974.0	50°	15591.4	13685.3	7414.8	4564.0	4121.6	3988.5	3742.3	3399.7	3030.5	2771.0
18718.4	52.5°	18266.0	15684.6	7348.3	4101.6	3692.4	3642.5	3446.3	3126.9	2777.7	2558.1
21918.5	55°	21336.4	18076.4	7348.3	3659.2	3316.5	3333.2	3196.8	2900.7	2598.0	2401.8
25218.4	57.5°	24469.9	20498.1	7215.2	3250.0	2997.2	3067.1	2980.6	2721.1	2448.3	2245.4
28688.0	60°	27357.4	22527.3	6676.3	2877.4	2714.4	2824.2	2767.7	2544.8	2212.1	2042.5
31588.7	62.5°	29576.2	23671.6	5638.5	2581.4	2481.6	2608.0	2578.1	2311.9	2168.9	2099.0
33970.5	65°	30687.2	23485.3	4311.2	2318.6	2285.3	2481.6	2418.4	2408.4	2295.3	2215.5
34745.6	67.5°	30005.3	21881.9	3126.9	2125.7	2172.2	2365.2	2608.0	2647.9	2438.3	2282.0
32563.4	70°	27014.7	18981.2	2328.6	1942.7	2029.2	2368.5	2973.9	2771.0	2391.8	2208.8
26116.6	72.5°	20551.3	14154.4	1806.3	1749.8	1842.9	2385.1	3136.9	2714.4	2258.7	2441.7
16270.1	75°	11752.6	7770.8	1450.4	1513.6	1610.0	2228.8	3053.8	2568.1	2155.6	2242.1
6446.8	77.5°	4480.8	2987.2	1197.6	1280.7	1294.0	1946.0	2920.7	2558.1	2052.5	2002.6
1932.7	80°	1553.5	1167.6	991.3	1017.9	1001.3	1729.8	2800.9	2225.4	1679.9	1503.6
798.4	82.5°	635.4	582.1	785.1	751.8	711.9	1343.9	2262.0	1819.6	1373.9	1214.2
385.9	85°	276.1	369.2	518.9	455.7	412.5	931.4	1813.0	1540.2	1161.0	1001.3
126.4	87.5°	56.6	139.7	219.6	206.2	212.9	622.1	1287.4	1094.4	821.7	615.4
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°
6370.3
6353.7
6476.8
6686.3
6922.5
7142.1
7291.8
7378.2
7428.1
7431.5
7381.6
7295.1
7125.4
6812.7
6303.8
5631.8
4860.1
4098.3
3466.2
3033.8
2754.4
2541.5
2381.8
2212.1
2015.9
2075.8
2188.9
2255.4
2178.9
2421.7
2242.1
1826.3
1453.7
1200.9
998.0
482.3
0.0

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