

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: P940449

Luminaire Tested: **GALN-SB3C-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22209 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

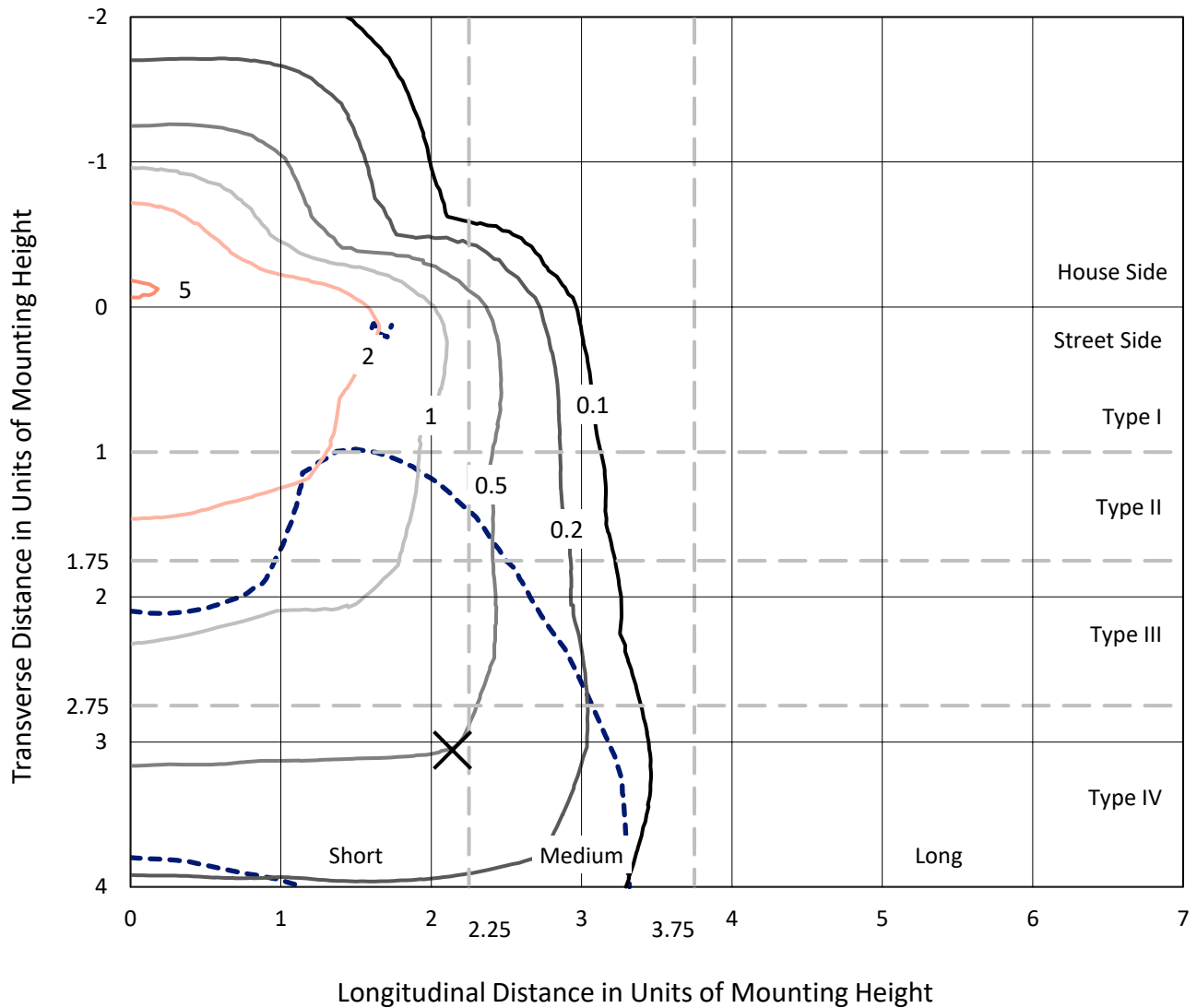
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

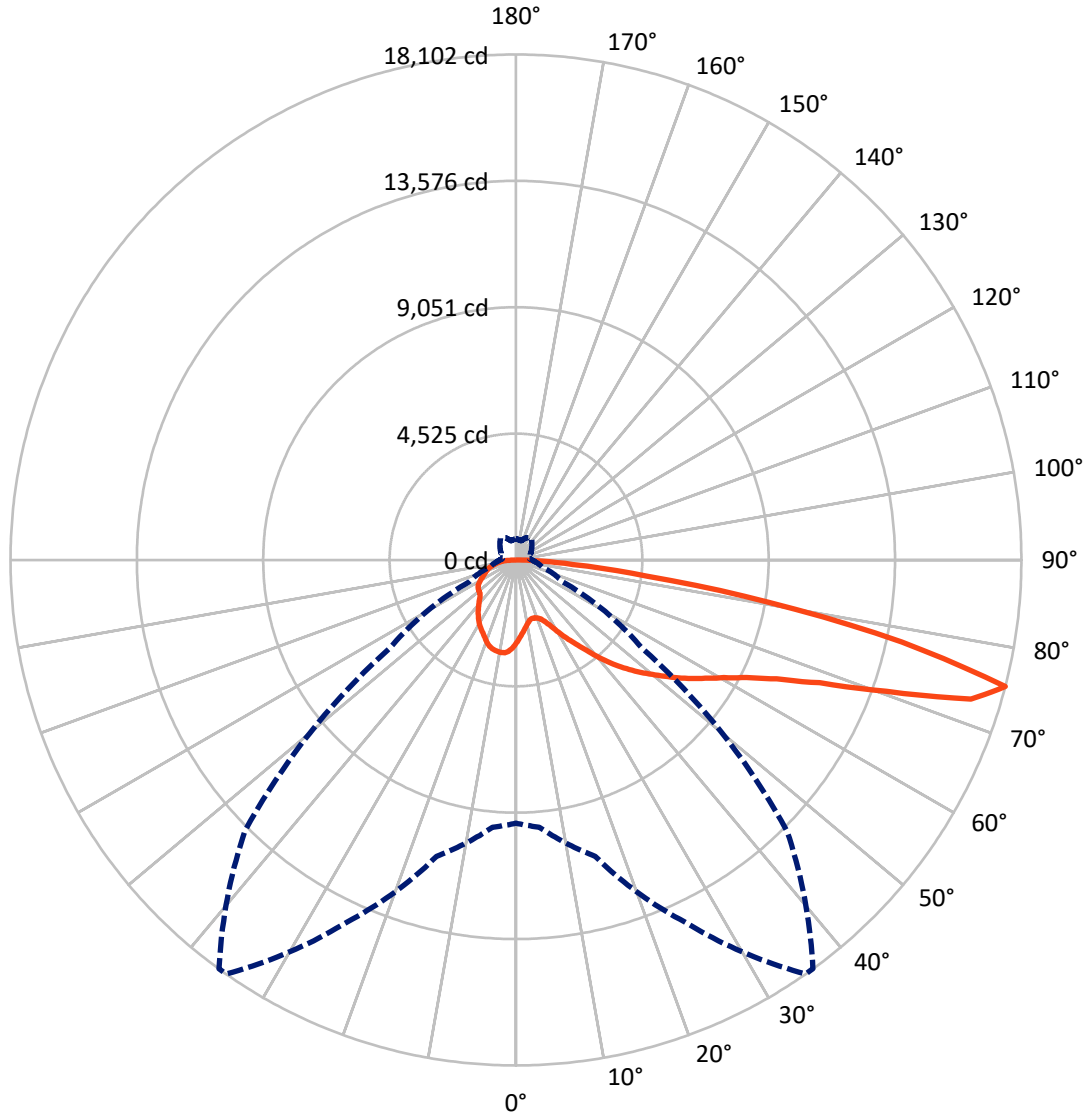
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5285.2	0.0	5285.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	16923.8	0.0	16923.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	22209.0	0.0	22209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	1.3
10°-20°	808.2	3.6
20°-30°	1357.2	6.1
30°-40°	2109.3	9.5
40°-50°	3130.8	14.1
50°-60°	4322.3	19.5
60°-70°	5243.9	23.6
70°-80°	4333.7	19.5
80°-90°	623.3	2.8
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°	22209.0	100.0
0°-180°	22209.0	100.0

Coefficient of Utilization



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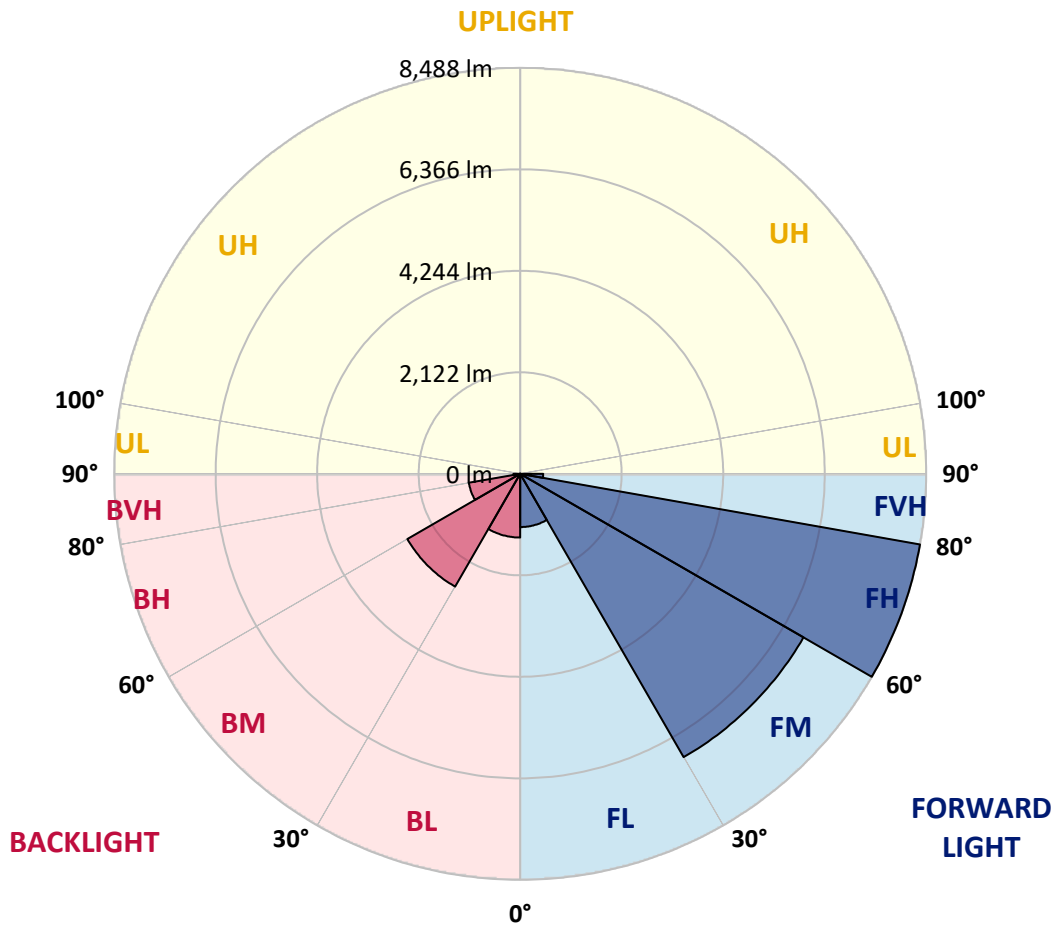
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1113.7	5.0			
FM (30°-60°)	6839.2	30.8			
FH (60°-80°)	8488.0	38.2			G4/12000
FVH (80°-90°)	483.0	2.2			G3/500
BL (0°-30°)	1331.9	6.0	B3/2500		
BM (30°-60°)	2723.2	12.3	B3/5000		
BH (60°-80°)	1089.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	140.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5
2.5°	2729.0	2745.8	2753.0	2749.4	2767.4	2765.0	2790.2	2821.4	2864.7	2906.7
5°	2518.9	2536.9	2552.5	2566.9	2601.7	2612.5	2652.1	2712.2	2791.4	2871.9
7.5°	2323.2	2338.8	2362.8	2389.2	2448.0	2458.8	2524.9	2618.5	2729.0	2846.6
10°	2163.5	2179.1	2204.3	2234.3	2307.6	2320.8	2404.8	2529.7	2673.8	2822.6
12.5°	2095.1	2099.9	2114.3	2144.3	2207.9	2216.3	2308.8	2451.6	2619.7	2804.6
15°	2091.5	2101.1	2102.3	2117.9	2170.7	2174.3	2259.5	2401.2	2586.1	2801.0
17.5°	2127.5	2134.7	2123.9	2133.5	2177.9	2183.9	2251.1	2377.2	2575.3	2816.6
20°	2223.5	2229.5	2197.1	2183.9	2216.3	2221.1	2287.2	2392.8	2586.1	2849.0
22.5°	2427.6	2431.2	2352.0	2298.0	2300.4	2302.8	2360.4	2456.4	2628.1	2907.9
25°	2745.8	2743.4	2617.3	2512.9	2452.8	2439.6	2478.1	2559.7	2699.0	2985.9
27.5°	3118.0	3100.0	2973.9	2817.8	2687.0	2667.8	2659.3	2694.2	2799.8	3089.2
30°	3538.2	3521.4	3385.7	3181.6	3000.3	2969.1	2889.9	2871.9	2949.9	3229.6
32.5°	3999.2	3988.4	3826.3	3579.0	3336.5	3300.5	3167.2	3119.2	3180.4	3442.1
35°	4385.8	4376.2	4241.7	3987.2	3690.7	3646.2	3510.6	3456.6	3487.8	3714.7
37.5°	4735.2	4730.4	4615.1	4414.6	4108.5	4054.5	3902.0	3884.0	3878.0	4073.7
40°	5059.4	5047.4	4927.3	4821.6	4594.7	4545.5	4411.0	4395.4	4349.8	4515.5
42.5°	5418.3	5387.1	5213.0	5163.8	5102.6	5061.8	4981.3	4983.7	4882.9	5013.7
45°	5711.3	5693.3	5514.4	5485.6	5551.6	5534.8	5604.4	5622.4	5426.7	5536.0
47.5°	6025.9	6009.0	5857.8	5837.4	6016.2	6021.1	6267.2	6273.2	5957.4	6078.7
50°	6413.6	6389.6	6239.6	6264.8	6465.3	6483.3	6933.5	6892.7	6446.1	6629.8
52.5°	6669.4	6683.8	6651.4	6692.2	6965.9	6982.7	7589.0	7484.6	6929.9	7173.6
55°	6857.9	6886.7	6987.5	7081.2	7494.2	7511.0	8207.4	8047.7	7330.9	7677.9
57.5°	7100.4	7059.6	7248.1	7430.6	7996.1	8040.5	8808.9	8590.4	7686.3	8112.5
60°	7448.6	7419.8	7566.2	7836.4	8557.9	8628.8	9445.2	9079.0	7946.8	8457.1
62.5°	8154.5	8082.5	8105.3	8344.2	9266.3	9359.9	10163.1	9505.2	8076.5	8591.6
65°	9209.9	9086.2	8970.9	9136.6	10264.0	10356.4	10973.6	9840.2	8028.5	8331.0
67.5°	10538.9	10416.5	10274.8	10430.9	11733.5	11806.8	11973.7	10028.7	7650.3	7327.3
70°	11635.1	11589.5	11758.8	12401.1	14080.7	14083.1	13255.9	9872.6	6614.2	5195.0
72.5°	11489.8	11462.2	12354.3	14340.1	17039.0	16975.4	14469.7	8691.2	4455.5	2343.6
75°	9426.0	9604.9	10986.8	14305.2	18101.6	18093.2	13726.6	5525.2	1842.9	971.3
77.5°	5054.6	5337.9	7132.8	10561.8	14131.2	14343.7	9650.5	1933.0	791.2	621.9
80°	1648.4	1895.8	2843.0	5377.5	9182.3	9142.6	4136.1	758.8	541.5	440.6
82.5°	700.0	728.8	1270.2	2539.3	4712.4	4639.2	1317.1	435.8	380.6	301.4
85°	273.7	306.2	560.7	1174.2	2041.0	1996.6	475.4	216.1	243.7	196.9
87.5°	90.0	109.3	200.5	402.2	635.1	612.3	116.5	74.4	105.7	90.0
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°
2959.5	0°	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5
2967.9	2.5°	2984.7	3003.9	3026.7	3060.4	3089.2	3113.2	3138.4	3154.0	3160.0	3178.0
2972.7	5°	3006.3	3048.3	3104.8	3160.0	3214.0	3246.4	3275.3	3289.7	3302.9	3312.5
2985.9	7.5°	3042.3	3096.4	3185.2	3257.3	3302.9	3329.3	3348.5	3343.7	3348.5	3350.9
3000.3	10°	3073.6	3149.2	3254.8	3323.3	3358.1	3359.3	3354.5	3337.7	3329.3	3330.5
3021.9	12.5°	3110.8	3194.8	3308.9	3366.5	3376.1	3349.7	3329.3	3300.5	3289.7	3284.9
3054.3	15°	3161.2	3257.3	3367.7	3389.3	3365.3	3331.7	3296.9	3250.0	3226.0	3206.8
3109.6	17.5°	3222.4	3328.1	3413.3	3397.7	3346.1	3290.9	3234.4	3163.6	3114.4	3094.0
3185.2	20°	3307.7	3402.5	3448.1	3379.7	3301.7	3217.6	3121.6	3035.1	2989.5	2969.1
3281.3	22.5°	3410.9	3502.2	3481.8	3348.5	3238.0	3103.6	2983.5	2919.9	2897.1	2882.7
3404.9	25°	3534.6	3612.6	3505.8	3302.9	3133.6	2952.3	2859.8	2839.4	2828.6	2817.8
3556.2	27.5°	3695.5	3737.5	3523.8	3235.6	2970.3	2791.4	2757.8	2761.4	2757.8	2739.8
3766.3	30°	3908.0	3899.6	3540.6	3126.4	2783.0	2646.1	2648.5	2664.1	2666.6	2654.5
4059.3	32.5°	4187.7	4102.5	3549.0	2984.7	2604.1	2518.9	2521.3	2538.1	2550.1	2529.7
4442.3	35°	4526.3	4339.0	3535.8	2807.0	2466.0	2397.6	2379.6	2384.4	2388.0	2368.8
4906.9	37.5°	4921.3	4604.3	3477.0	2610.1	2352.0	2278.8	2240.3	2207.9	2188.7	2170.7
5432.8	40°	5354.7	4893.7	3368.9	2418.0	2224.7	2152.7	2095.1	2033.8	1969.0	1945.0
5989.8	42.5°	5808.5	5191.4	3238.0	2234.3	2078.3	2019.4	1958.2	1869.3	1772.1	1722.9
6568.5	45°	6279.2	5496.4	3109.6	2053.0	1928.2	1903.0	1832.1	1725.3	1619.6	1557.2
7148.4	47.5°	6740.2	5784.5	2921.1	1870.5	1787.7	1815.3	1760.1	1661.6	1544.0	1445.5
7723.5	50°	7180.8	6054.7	2612.5	1685.7	1673.6	1788.9	1736.1	1594.4	1459.9	1333.9
8287.8	52.5°	7617.9	6273.2	2217.5	1517.6	1612.4	1781.7	1704.9	1548.8	1384.3	1252.2
8818.5	55°	7988.8	6386.0	1836.9	1373.5	1523.6	1720.5	1667.6	1494.8	1277.4	1137.0
9182.3	57.5°	8200.2	6294.8	1520.0	1231.8	1401.1	1619.6	1604.0	1379.5	1150.2	1042.1
9253.1	60°	8108.9	5925.0	1260.6	1108.2	1284.7	1510.4	1493.6	1265.4	1052.9	950.9
8873.7	62.5°	7605.9	5220.2	1055.3	1000.1	1179.0	1398.7	1383.1	1177.8	978.5	880.0
7866.4	65°	6592.5	4246.6	895.7	910.1	1072.1	1264.2	1287.1	1104.6	919.7	823.6
6085.9	67.5°	5028.1	3076.0	770.8	832.0	967.7	1132.2	1198.2	1051.7	870.4	779.2
3521.4	70°	2865.9	1746.9	665.1	756.4	875.2	1009.7	1129.8	1009.7	817.6	742.0
1319.5	72.5°	1086.6	802.0	575.1	680.7	786.4	906.5	1054.1	943.7	756.4	700.0
681.9	75°	579.9	488.6	483.8	591.9	684.3	805.6	959.3	878.8	710.8	739.6
471.8	77.5°	395.0	345.8	404.6	506.7	572.7	694.0	858.4	780.4	615.9	613.5
326.6	80°	273.7	244.9	329.0	408.2	443.0	583.5	749.2	669.9	501.9	468.2
201.7	82.5°	164.5	159.7	246.1	305.0	313.4	450.2	620.7	561.9	410.6	357.8
120.1	85°	90.0	94.8	157.3	178.9	182.5	314.6	486.2	434.6	315.8	265.3
43.2	87.5°	25.2	32.4	57.6	70.8	87.6	163.3	289.3	258.1	158.5	110.5
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>
2959.5
3176.8
3314.9
3354.5
3332.9
3282.5
3212.8
3095.2
2966.7
2885.1
2817.8
2743.4
2660.5
2539.3
2382.0
2182.7
1955.8
1728.9
1552.4
1434.7
1323.1
1237.8
1125.0
1027.7
936.5
864.4
808.0
764.8
732.4
690.3
763.6
565.5
447.8
360.2
267.7
110.5
0.0

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