

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: P948647

Luminaire Tested: **GALN-SB3C-850-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948647
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-SB3C-850-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21781 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

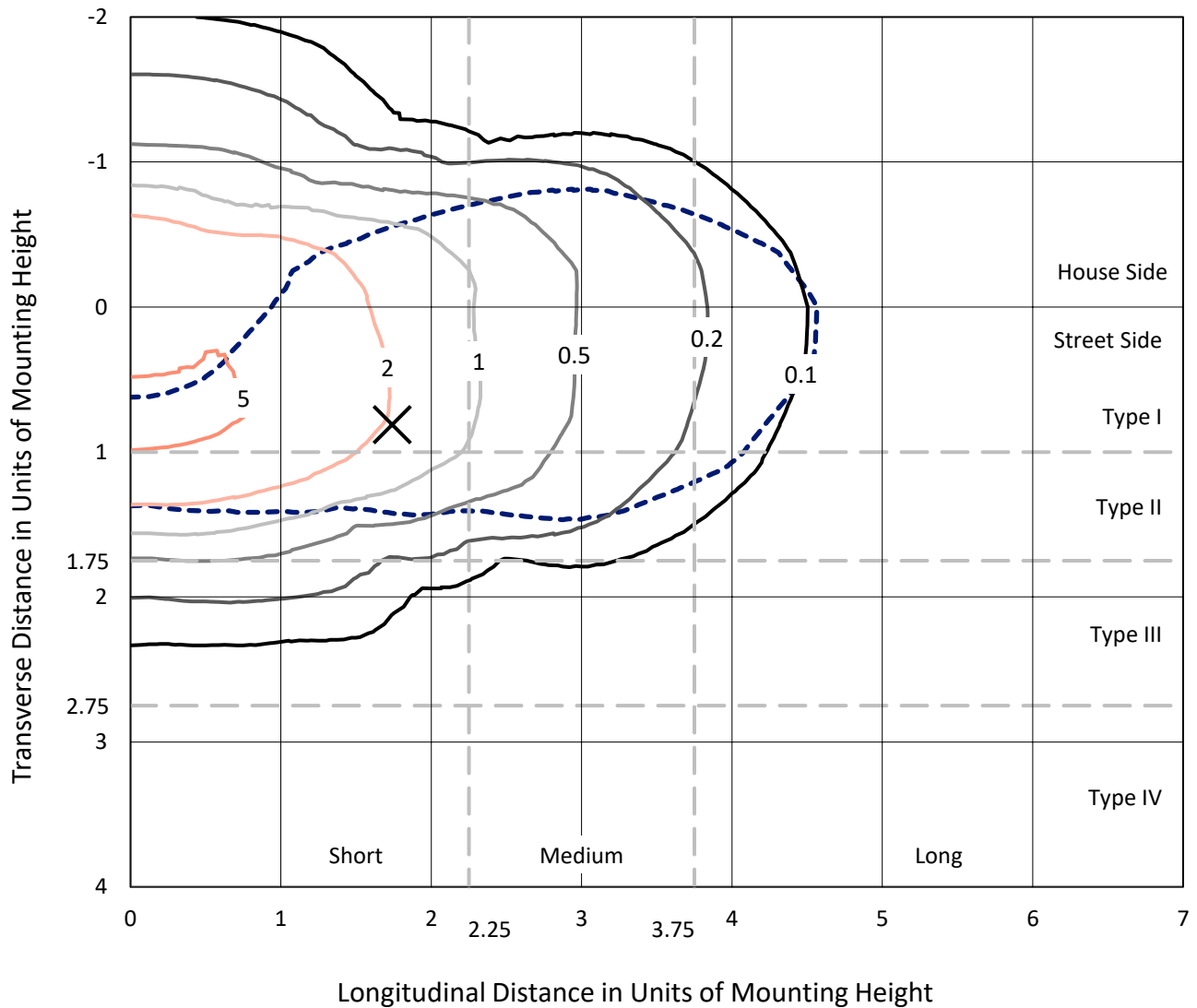
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

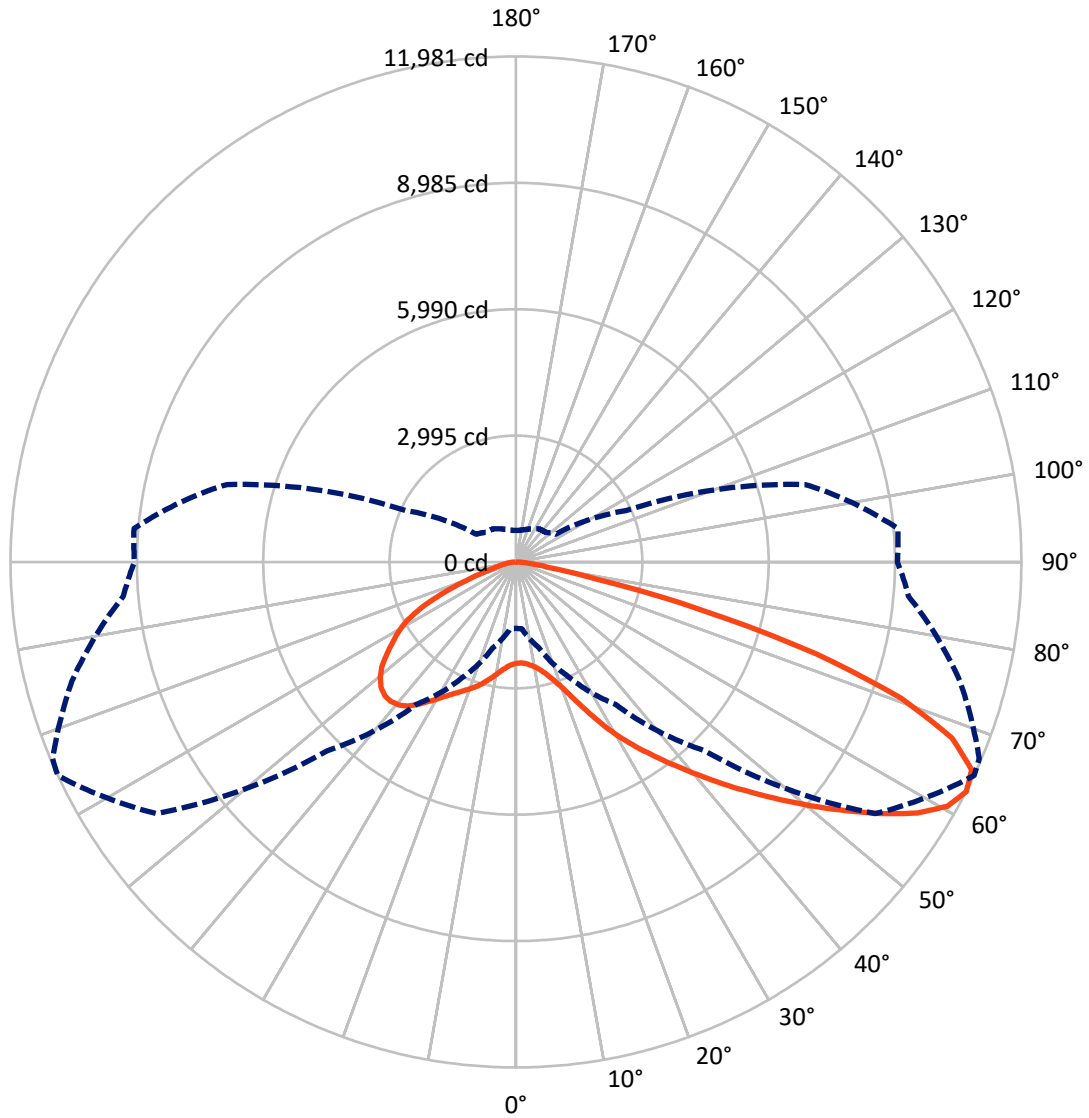
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	6873.1	0.0	6873.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	14907.9	0.0	14907.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	21781.0	0.0	21781.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	1.1
10°-20°	811.5	3.7
20°-30°	1645.3	7.6
30°-40°	2847.2	13.1
40°-50°	4308.7	19.8
50°-60°	5051.7	23.2
60°-70°	4235.3	19.4
70°-80°	2338.2	10.7
80°-90°	303.7	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°	21781.0	100.0
0°-180°	21781.0	100.0



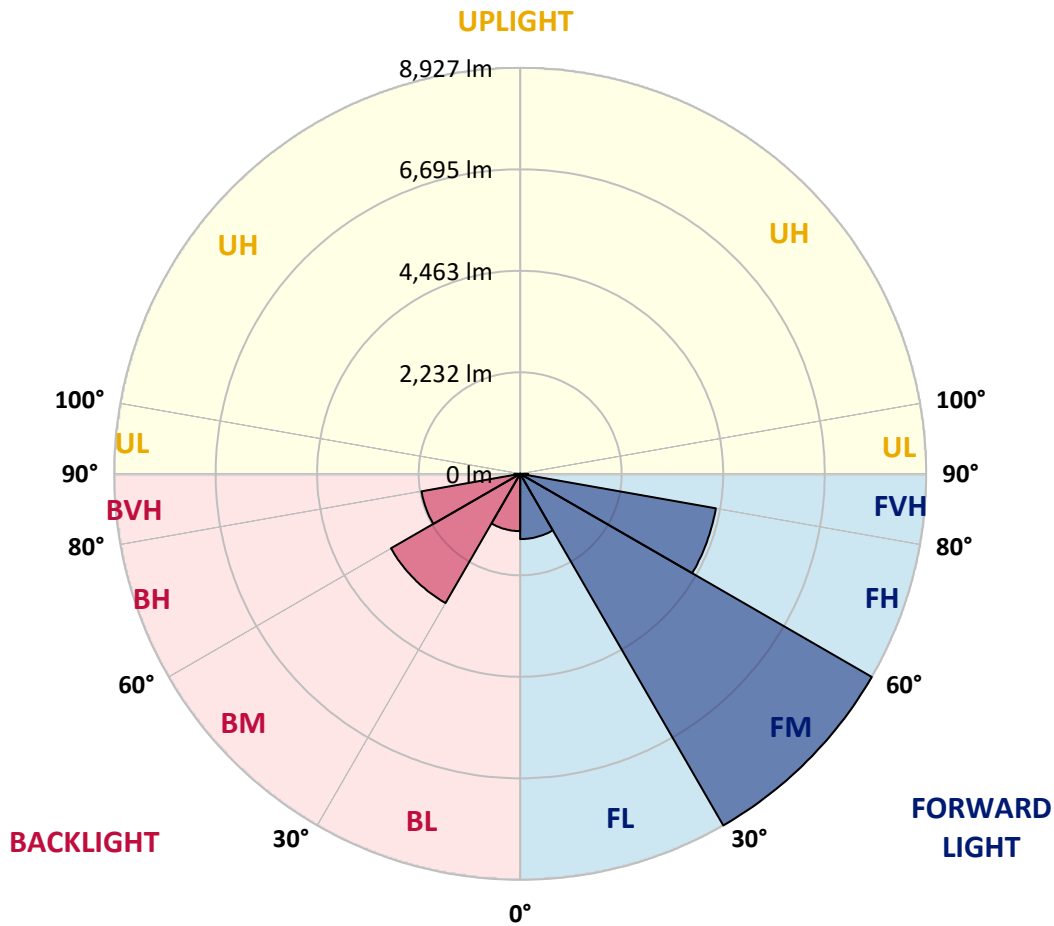
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1435.7	6.6			
FM (30°-60°)	8926.6	41.0			
FH (60°-80°)	4368.6	20.1			G2/5000
FVH (80°-90°)	177.0	0.8			G2/225
BL (0°-30°)	1260.5	5.8	B3/2500		
BM (30°-60°)	3281.1	15.1	B3/5000		
BH (60°-80°)	2204.8	10.1	B3/2500		G3/2500
BVH (80°-90°)	126.7	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2
2.5°	2384.4	2377.6	2383.2	2383.2	2385.5	2384.4	2392.3	2394.5	2397.9	2404.7
5°	2360.6	2359.5	2369.7	2378.7	2387.7	2395.7	2405.8	2420.5	2422.8	2430.7
7.5°	2352.7	2345.9	2361.8	2373.1	2394.5	2413.7	2440.9	2465.7	2475.9	2479.3
10°	2413.7	2402.4	2417.1	2423.9	2442.0	2461.2	2492.8	2532.4	2543.7	2557.2
12.5°	2517.7	2505.3	2526.7	2536.9	2553.9	2570.8	2592.3	2630.7	2636.3	2661.2
15°	2660.1	2645.4	2658.9	2671.4	2699.6	2715.4	2736.9	2774.2	2774.2	2793.4
17.5°	2853.3	2834.1	2844.3	2848.8	2866.9	2890.6	2926.8	2959.5	2976.5	2969.7
20°	3141.5	3117.7	3117.7	3095.1	3088.4	3107.6	3155.0	3200.2	3218.3	3183.3
22.5°	3574.3	3540.4	3521.2	3444.3	3413.8	3416.1	3463.5	3518.9	3533.6	3471.4
25°	4124.6	4071.5	4045.5	3932.5	3863.6	3803.7	3841.0	3912.1	3932.5	3855.6
27.5°	4674.9	4678.3	4653.4	4517.8	4403.7	4294.1	4274.9	4349.5	4370.9	4283.9
30°	5446.7	5366.5	5319.0	5156.3	4993.6	4839.9	4760.8	4791.3	4797.0	4693.0
32.5°	6112.3	6092.0	5990.3	5847.9	5638.8	5398.1	5265.9	5217.3	5208.3	5060.2
35°	6870.5	6859.2	6751.9	6582.4	6356.4	6021.9	5783.5	5644.5	5633.2	5425.2
37.5°	7641.2	7641.2	7536.1	7350.8	7116.9	6698.8	6336.0	6115.7	6079.5	5808.3
40°	8256.0	8218.7	8237.9	8159.9	7892.1	7448.0	6949.6	6629.9	6581.3	6255.8
42.5°	8605.1	8592.7	8708.0	8795.0	8685.4	8330.5	7625.4	7187.0	7119.2	6748.5
45°	8683.1	8669.5	8875.2	9193.9	9347.6	9201.8	8359.9	7773.4	7690.9	7263.8
47.5°	8503.4	8476.3	8778.0	9280.9	9773.6	10030.1	9155.5	8409.6	8289.9	7765.5
50°	7963.3	7937.3	8393.8	9061.7	9917.1	10592.8	10018.8	9084.3	8901.2	8303.4
52.5°	6789.2	6801.6	7516.9	8434.5	9728.4	10943.2	10762.4	9795.1	9574.7	8853.7
55°	5288.5	5315.6	6194.8	7205.0	8973.5	10890.0	11269.7	10527.3	10308.1	9371.3
57.5°	3786.7	3906.5	4730.3	5730.4	7523.7	10048.2	11380.5	11223.4	11011.0	9936.3
60°	2454.4	2475.9	3323.4	4331.4	5729.2	8552.0	11155.6	11751.1	11585.0	10512.6
62.5°	1573.0	1587.7	2104.1	3029.6	4123.5	6327.0	10398.5	11980.5	11929.7	10893.4
65°	1156.0	1144.7	1413.7	2002.4	2777.6	3902.0	8928.3	11869.8	11970.3	11131.9
67.5°	965.0	949.2	1081.4	1386.5	2046.5	2216.0	6606.1	11150.0	11518.3	11104.7
70°	879.2	865.6	945.8	1029.5	1596.7	1483.7	3330.2	9693.3	10260.6	10796.3
72.5°	744.7	721.0	830.6	914.2	1241.9	1137.9	1376.4	7445.7	8137.3	9807.5
75°	577.4	561.6	655.4	804.6	933.4	888.2	870.1	4521.2	5276.1	7584.7
77.5°	457.7	436.2	522.1	627.2	839.6	670.1	633.9	1947.0	2695.1	4842.2
80°	344.7	325.4	396.6	496.1	645.2	505.1	410.2	794.4	1015.9	2453.3
82.5°	245.2	228.3	276.9	363.9	433.9	453.1	252.0	445.2	500.6	945.8
85°	157.1	146.9	185.3	228.3	275.7	291.5	153.7	232.8	255.4	389.9
87.5°	85.9	70.1	99.4	106.2	127.7	116.4	73.5	84.8	91.5	141.3
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°
2400.2	0°	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2
2404.7	2.5°	2409.2	2412.6	2423.9	2427.3	2435.2	2445.4	2452.2	2458.9	2458.9	2465.7
2440.9	5°	2442.0	2449.9	2473.6	2486.1	2506.4	2526.7	2539.2	2553.9	2562.9	2567.4
2498.5	7.5°	2505.3	2517.7	2551.6	2573.1	2608.1	2636.3	2655.6	2675.9	2680.4	2692.8
2578.7	10°	2591.1	2605.8	2644.3	2684.9	2726.7	2761.8	2779.9	2794.6	2800.2	2802.5
2681.5	12.5°	2689.5	2710.9	2760.6	2810.4	2854.4	2885.0	2889.5	2886.1	2870.3	2856.7
2808.1	15°	2810.4	2829.6	2885.0	2939.2	2982.1	2987.8	2959.5	2941.5	2922.2	2918.9
2949.4	17.5°	2955.0	2965.2	3016.0	3069.1	3072.5	3053.3	3011.5	2994.6	2976.5	2964.1
3133.6	20°	3123.4	3120.0	3156.2	3178.8	3155.0	3096.3	3033.0	3004.7	2986.7	2972.0
3359.6	22.5°	3324.5	3298.5	3294.0	3288.4	3225.1	3101.9	3016.0	2979.9	2951.6	2931.3
3674.8	25°	3617.2	3517.8	3448.8	3410.4	3268.0	3071.4	2961.8	2881.6	2828.5	2793.4
4060.2	27.5°	3983.3	3816.1	3642.1	3548.3	3268.0	3009.3	2830.7	2700.8	2613.7	2577.6
4433.1	30°	4332.5	4157.4	3900.8	3714.4	3260.1	2907.6	2619.4	2438.6	2336.9	2300.7
4751.8	32.5°	4630.8	4439.9	4175.4	3896.3	3240.9	2742.6	2357.2	2157.2	2058.9	2016.0
5067.0	35°	4907.7	4704.3	4451.2	4096.3	3190.1	2500.7	2069.1	1916.5	1806.9	1738.0
5388.0	37.5°	5191.3	4949.5	4712.2	4277.1	3098.5	2218.2	1847.6	1717.6	1588.8	1496.2
5729.2	40°	5499.8	5210.5	4991.3	4384.5	2948.2	1949.3	1675.8	1557.2	1420.4	1322.1
6122.5	42.5°	5860.3	5523.6	5302.1	4439.9	2742.6	1758.3	1564.0	1447.6	1318.7	1238.5
6544.0	45°	6236.6	5868.2	5585.7	4438.7	2513.2	1669.0	1527.8	1412.5	1270.1	1186.5
6976.8	47.5°	6631.0	6228.7	5830.9	4366.4	2314.3	1681.5	1507.5	1336.8	1179.7	1098.4
7414.1	50°	7026.5	6623.1	6068.2	4230.8	2229.5	1654.4	1431.7	1230.6	1045.3	971.8
7824.3	52.5°	7418.6	7042.3	6272.8	4037.6	2143.7	1553.8	1334.6	1092.7	989.9	939.1
8248.0	55°	7813.0	7457.0	6495.4	3756.2	1929.0	1436.3	1171.8	1040.8	945.8	899.5
8662.8	57.5°	8208.5	7936.2	6706.7	3474.8	1658.9	1291.6	1082.6	977.5	901.8	862.2
9009.7	60°	8619.8	8484.2	6924.8	3216.0	1392.2	1106.3	1017.0	926.6	849.8	805.7
9343.0	62.5°	9043.6	9087.7	7095.4	2882.7	1147.0	993.3	958.3	865.6	791.0	749.2
9618.8	65°	9470.7	9669.6	7207.3	2420.5	930.0	885.9	895.0	798.9	723.2	687.1
9821.0	67.5°	9792.8	10088.9	7175.7	1831.8	762.8	784.2	815.9	728.9	657.7	629.4
9788.3	70°	9829.0	10039.1	6863.8	1254.3	638.5	684.8	727.7	659.9	586.5	566.1
9327.2	72.5°	9347.6	9361.1	5994.8	819.3	540.2	601.2	635.1	589.9	518.7	498.3
8159.9	75°	8085.3	7741.8	4401.4	540.2	452.0	516.4	548.1	516.4	447.5	452.0
6105.5	77.5°	6125.9	5482.9	2672.5	384.2	377.4	433.9	476.9	454.3	395.5	444.1
3070.3	80°	3156.2	2966.3	1192.2	287.0	298.3	346.9	392.1	362.7	313.0	298.3
685.9	82.5°	723.2	840.7	470.1	205.7	215.8	249.7	299.5	272.3	224.9	189.8
285.9	85°	253.1	276.9	207.9	128.8	126.6	155.9	203.4	181.9	152.6	122.0
120.9	87.5°	80.2	105.1	78.0	52.0	54.2	70.1	93.8	85.9	71.2	46.3
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°
2400.2
2465.7
2569.7
2688.3
2796.8
2856.7
2918.9
2965.2
2973.1
2938.1
2807.0
2595.7
2322.2
2037.4
1760.6
1521.0
1341.3
1254.3
1200.1
1109.7
976.3
939.1
895.0
855.4
802.3
748.1
685.9
630.6
567.3
497.2
436.2
391.0
272.3
187.6
128.8
48.6
0.0

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