

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: P941009

Luminaire Tested: **GALN-SB4B-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941009
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-SB4B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20043 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

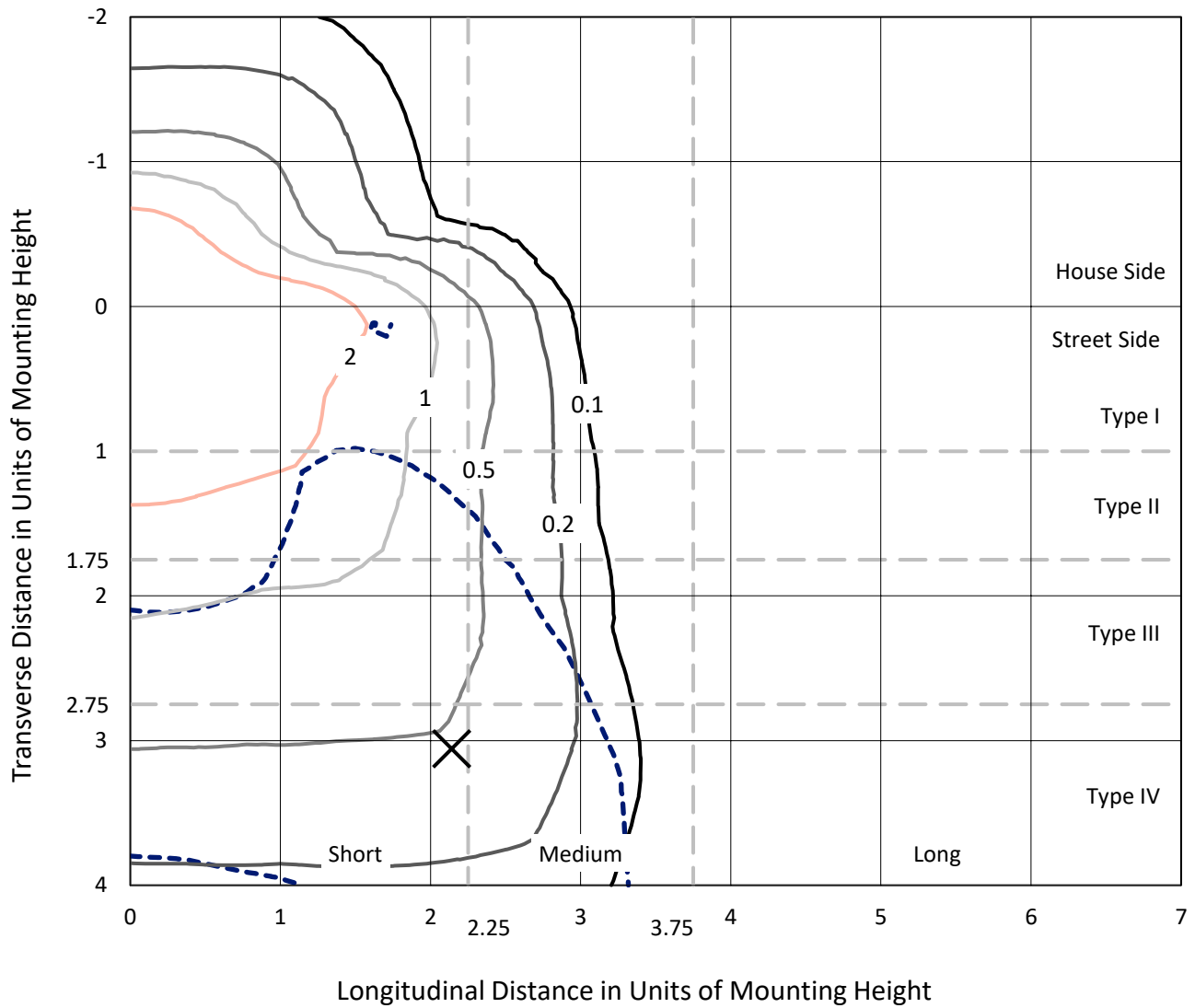
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

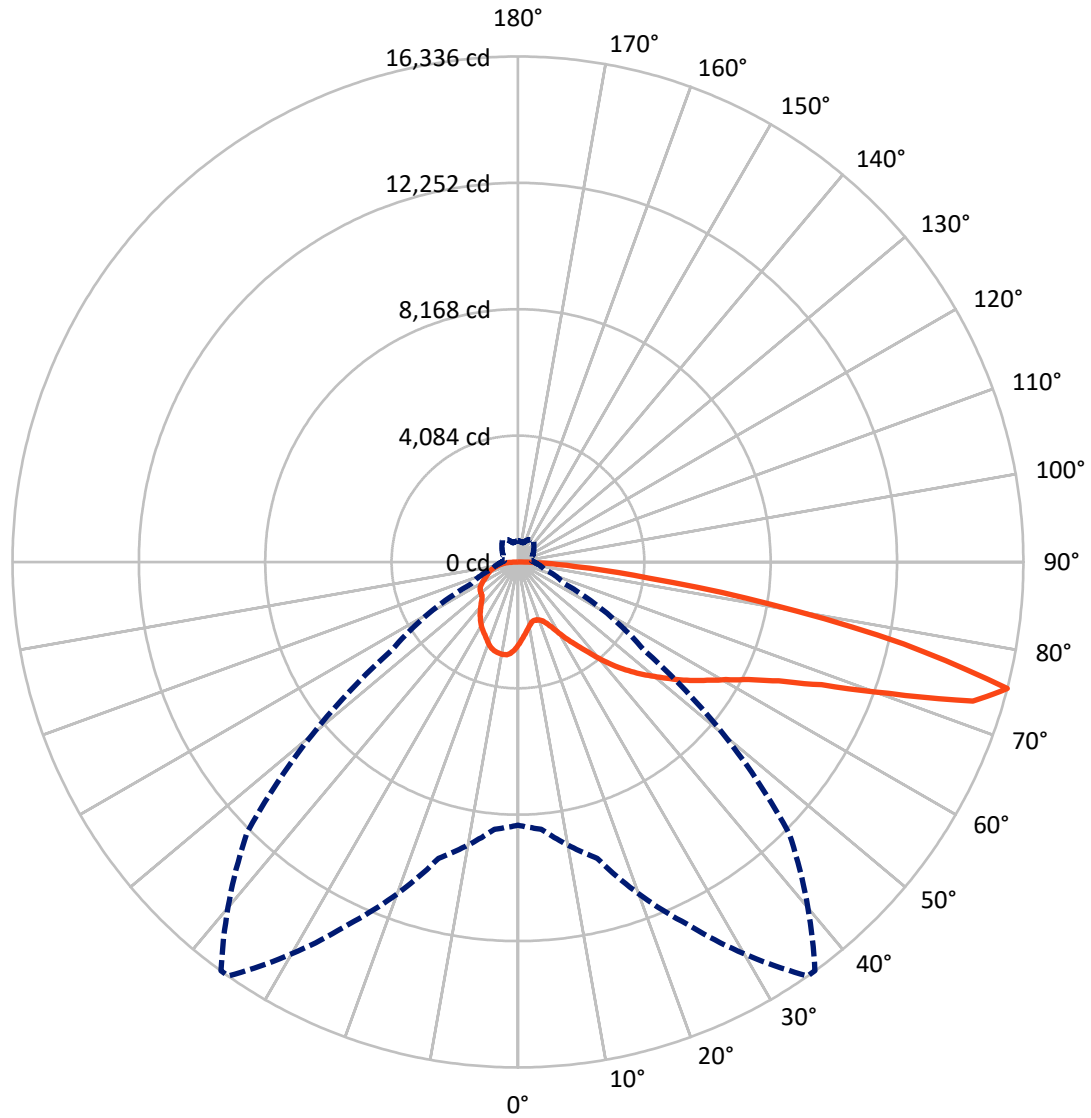
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	4769.7	0.0	4769.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	15273.3	0.0	15273.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	20043.0	0.0	20043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.9	1.3
10°-20°	729.4	3.6
20°-30°	1224.9	6.1
30°-40°	1903.6	9.5
40°-50°	2825.5	14.1
50°-60°	3900.7	19.5
60°-70°	4732.5	23.6
70°-80°	3911.0	19.5
80°-90°	562.5	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°	20043.0	100.0
0°-180°	20043.0	100.0

Coefficient of Utilization



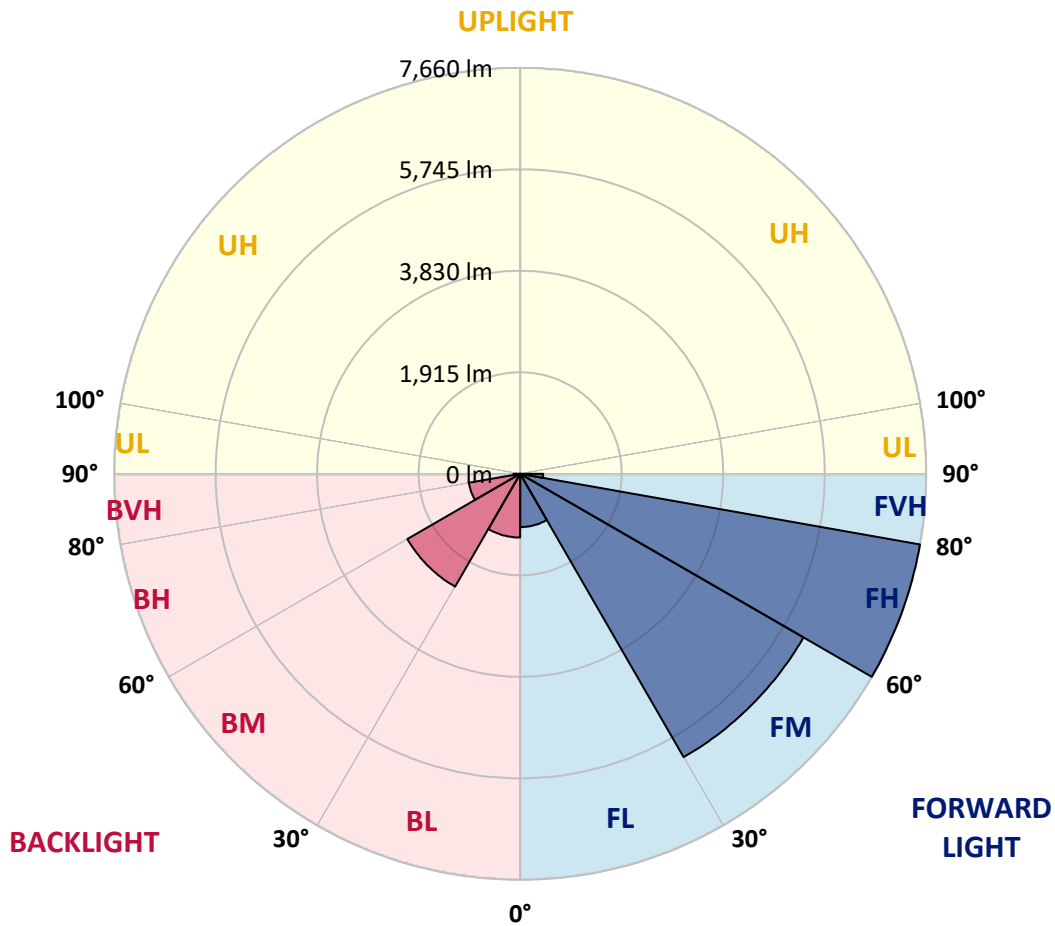
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1005.1	5.0			
FM (30°-60°)	6172.2	30.8			
FH (60°-80°)	7660.1	38.2			G4/12000
FVH (80°-90°)	435.9	2.2			G3/500
BL (0°-30°)	1202.0	6.0	B3/2500		
BM (30°-60°)	2457.7	12.3	B2/2500		
BH (60°-80°)	983.4	4.9	B2/1000		G2/1000
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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9
2.5°	2462.8	2478.0	2484.5	2481.3	2497.5	2495.3	2518.1	2546.3	2585.3	2623.2
5°	2273.2	2289.5	2303.6	2316.6	2348.0	2357.7	2393.5	2447.7	2519.2	2591.8
7.5°	2096.6	2110.7	2132.4	2156.2	2209.3	2219.0	2278.6	2363.1	2462.8	2569.0
10°	1952.5	1966.6	1989.3	2016.4	2082.5	2094.4	2170.3	2283.0	2413.0	2547.3
12.5°	1890.7	1895.1	1908.1	1935.2	1992.6	2000.2	2083.6	2212.5	2364.2	2531.1
15°	1887.5	1896.2	1897.2	1911.3	1959.0	1962.2	2039.2	2167.0	2333.9	2527.8
17.5°	1920.0	1926.5	1916.7	1925.4	1965.5	1970.9	2031.6	2145.4	2324.1	2541.9
20°	2006.7	2012.1	1982.8	1970.9	2000.2	2004.5	2064.1	2159.4	2333.9	2571.2
22.5°	2190.9	2194.1	2122.6	2073.8	2076.0	2078.2	2130.2	2216.9	2371.8	2624.3
25°	2478.0	2475.8	2362.1	2267.8	2213.6	2201.7	2236.4	2310.1	2435.7	2694.7
27.5°	2813.9	2797.6	2683.9	2543.0	2424.9	2407.6	2400.0	2431.4	2526.8	2787.9
30°	3193.1	3178.0	3055.5	2871.3	2707.7	2679.5	2608.0	2591.8	2662.2	2914.7
32.5°	3609.2	3599.4	3453.2	3230.0	3011.1	2978.6	2858.3	2815.0	2870.2	3106.4
35°	3958.1	3949.4	3828.1	3598.4	3330.7	3290.6	3168.2	3119.4	3147.6	3352.4
37.5°	4273.4	4269.1	4165.0	3984.1	3707.8	3659.0	3521.4	3505.2	3499.8	3676.4
40°	4565.9	4555.1	4446.7	4351.4	4146.6	4102.2	3980.8	3966.7	3925.6	4075.1
42.5°	4889.9	4861.7	4704.6	4660.2	4604.9	4568.1	4495.5	4497.7	4406.7	4524.8
45°	5154.3	5138.0	4976.6	4950.6	5010.2	4995.0	5057.8	5074.1	4897.5	4996.1
47.5°	5438.2	5423.0	5286.5	5268.1	5429.5	5433.8	5656.0	5661.4	5376.4	5485.8
50°	5788.1	5766.5	5631.0	5653.8	5834.7	5851.0	6257.3	6220.5	5817.4	5983.2
52.5°	6018.9	6031.9	6002.7	6039.5	6286.6	6301.7	6848.9	6754.6	6254.1	6474.0
55°	6189.0	6215.0	6306.1	6390.6	6763.3	6778.5	7406.9	7262.8	6615.9	6929.1
57.5°	6407.9	6371.1	6541.2	6705.9	7216.2	7256.3	7949.8	7752.6	6936.7	7321.3
60°	6722.1	6696.1	6828.3	7072.1	7723.3	7787.2	8524.0	8193.5	7171.8	7632.3
62.5°	7359.2	7294.2	7314.8	7530.4	8362.6	8447.1	9172.0	8578.2	7288.8	7753.6
65°	8311.6	8200.0	8096.0	8245.6	9263.0	9346.4	9903.3	8880.5	7245.5	7518.5
67.5°	9511.1	9400.6	9272.7	9413.6	10589.2	10655.3	10805.9	9050.6	6904.2	6612.7
70°	10500.3	10459.2	10611.9	11191.6	12707.5	12709.6	11963.1	8909.7	5969.1	4688.4
72.5°	10369.2	10344.3	11149.4	12941.5	15377.2	15319.8	13058.5	7843.6	4020.9	2115.0
75°	8506.7	8668.1	9915.2	12910.1	16336.2	16328.6	12387.8	4986.3	1663.2	876.6
77.5°	4561.6	4817.3	6437.2	9531.7	12753.0	12944.8	8709.3	1744.5	714.0	561.3
80°	1487.7	1710.9	2565.8	4853.1	8286.7	8251.0	3732.7	684.8	488.7	397.7
82.5°	631.7	657.7	1146.4	2291.6	4252.8	4186.7	1188.6	393.3	343.5	272.0
85°	247.0	276.3	506.0	1059.7	1842.0	1801.9	429.1	195.0	220.0	177.7
87.5°	81.3	98.6	180.9	363.0	573.2	552.6	105.1	67.2	95.3	81.3
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°
2670.9	0°	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9
2678.4	2.5°	2693.6	2711.0	2731.5	2761.9	2787.9	2809.6	2832.3	2846.4	2851.8	2868.1
2682.8	5°	2713.1	2751.0	2802.0	2851.8	2900.6	2929.8	2955.8	2968.8	2980.8	2989.4
2694.7	7.5°	2745.6	2794.4	2874.6	2939.6	2980.8	3004.6	3021.9	3017.6	3021.9	3024.1
2707.7	10°	2773.8	2842.1	2937.4	2999.2	3030.6	3031.7	3027.3	3012.2	3004.6	3005.7
2727.2	12.5°	2807.4	2883.2	2986.2	3038.2	3046.8	3023.0	3004.6	2978.6	2968.8	2964.5
2756.5	15°	2852.9	2939.6	3039.3	3058.8	3037.1	3006.8	2975.3	2933.1	2911.4	2894.1
2806.3	17.5°	2908.2	3003.5	3080.4	3066.3	3019.8	2969.9	2919.0	2855.1	2810.6	2792.2
2874.6	20°	2985.1	3070.7	3111.9	3050.1	2979.7	2903.8	2817.1	2739.1	2698.0	2679.5
2961.2	22.5°	3078.3	3160.6	3142.2	3021.9	2922.2	2800.9	2692.5	2635.1	2614.5	2601.5
3072.8	25°	3189.9	3260.3	3163.9	2980.8	2828.0	2664.4	2580.9	2562.5	2552.8	2543.0
3209.4	27.5°	3335.1	3373.0	3180.1	2920.1	2680.6	2519.2	2488.8	2492.1	2488.8	2472.6
3399.0	30°	3526.8	3519.3	3195.3	2821.5	2511.6	2388.1	2390.2	2404.3	2406.5	2395.7
3663.4	32.5°	3779.3	3702.4	3202.9	2693.6	2350.1	2273.2	2275.4	2290.6	2301.4	2283.0
4009.0	35°	4084.9	3915.8	3191.0	2533.3	2225.5	2163.8	2147.5	2151.9	2155.1	2137.8
4428.3	37.5°	4441.3	4155.3	3137.9	2355.6	2122.6	2056.5	2021.8	1992.6	1975.2	1959.0
4902.9	40°	4832.5	4416.4	3040.3	2182.2	2007.8	1942.7	1890.7	1835.5	1777.0	1755.3
5405.7	42.5°	5242.0	4685.1	2922.2	2016.4	1875.6	1822.5	1767.2	1687.0	1599.3	1554.8
5927.9	45°	5666.8	4960.3	2806.3	1852.8	1740.1	1717.4	1653.4	1557.0	1461.7	1405.3
6451.3	47.5°	6082.9	5220.4	2636.2	1688.1	1613.4	1638.3	1588.4	1499.6	1393.4	1304.6
6970.3	50°	6480.5	5464.2	2357.7	1521.3	1510.4	1614.4	1566.8	1438.9	1317.6	1203.8
7479.5	52.5°	6874.9	5661.4	2001.3	1369.6	1455.2	1607.9	1538.6	1397.7	1249.3	1130.1
7958.4	55°	7209.7	5763.2	1657.8	1239.5	1375.0	1552.7	1505.0	1349.0	1152.9	1026.1
8286.7	57.5°	7400.4	5680.9	1371.7	1111.7	1264.5	1461.7	1447.6	1245.0	1038.0	940.5
8350.7	60°	7318.1	5347.1	1137.7	1000.1	1159.4	1363.1	1347.9	1142.0	950.2	858.1
8008.3	62.5°	6864.1	4711.1	952.4	902.6	1064.0	1262.3	1248.2	1062.9	883.1	794.2
7099.2	65°	5949.6	3832.4	808.3	821.3	967.6	1140.9	1161.5	996.8	830.0	743.3
5492.3	67.5°	4537.8	2776.0	695.6	750.9	873.3	1021.8	1081.3	949.2	785.5	703.2
3178.0	70°	2586.4	1576.5	600.3	682.6	789.9	911.2	1019.6	911.2	737.9	669.6
1190.8	72.5°	980.6	723.8	519.0	614.4	709.7	818.1	951.3	851.6	682.6	631.7
615.4	75°	523.3	441.0	436.7	534.2	617.6	727.0	865.7	793.1	641.4	667.4
425.8	77.5°	356.5	312.1	365.1	457.2	516.8	626.3	774.7	704.3	555.8	553.7
294.7	80°	247.0	221.0	296.9	368.4	399.8	526.6	676.1	604.6	452.9	422.6
182.0	82.5°	148.4	144.1	222.1	275.2	282.8	406.3	560.2	507.1	370.6	322.9
108.4	85°	81.3	85.6	141.9	161.4	164.7	283.9	438.8	392.2	285.0	239.5
39.0	87.5°	22.8	29.3	52.0	63.9	79.1	147.4	261.1	233.0	143.0	99.7
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>
2670.9
2867.0
2991.6
3027.3
3007.8
2962.3
2899.5
2793.3
2677.4
2603.7
2543.0
2475.8
2401.1
2291.6
2149.7
1969.8
1765.0
1560.3
1401.0
1294.8
1194.0
1117.1
1015.3
927.5
845.1
780.1
729.2
690.2
660.9
623.0
689.1
510.3
404.2
325.1
241.6
99.7
0.0

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