

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: P949659

Luminaire Tested: **GALN-SB4B-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949659
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-SB4B-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20239 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

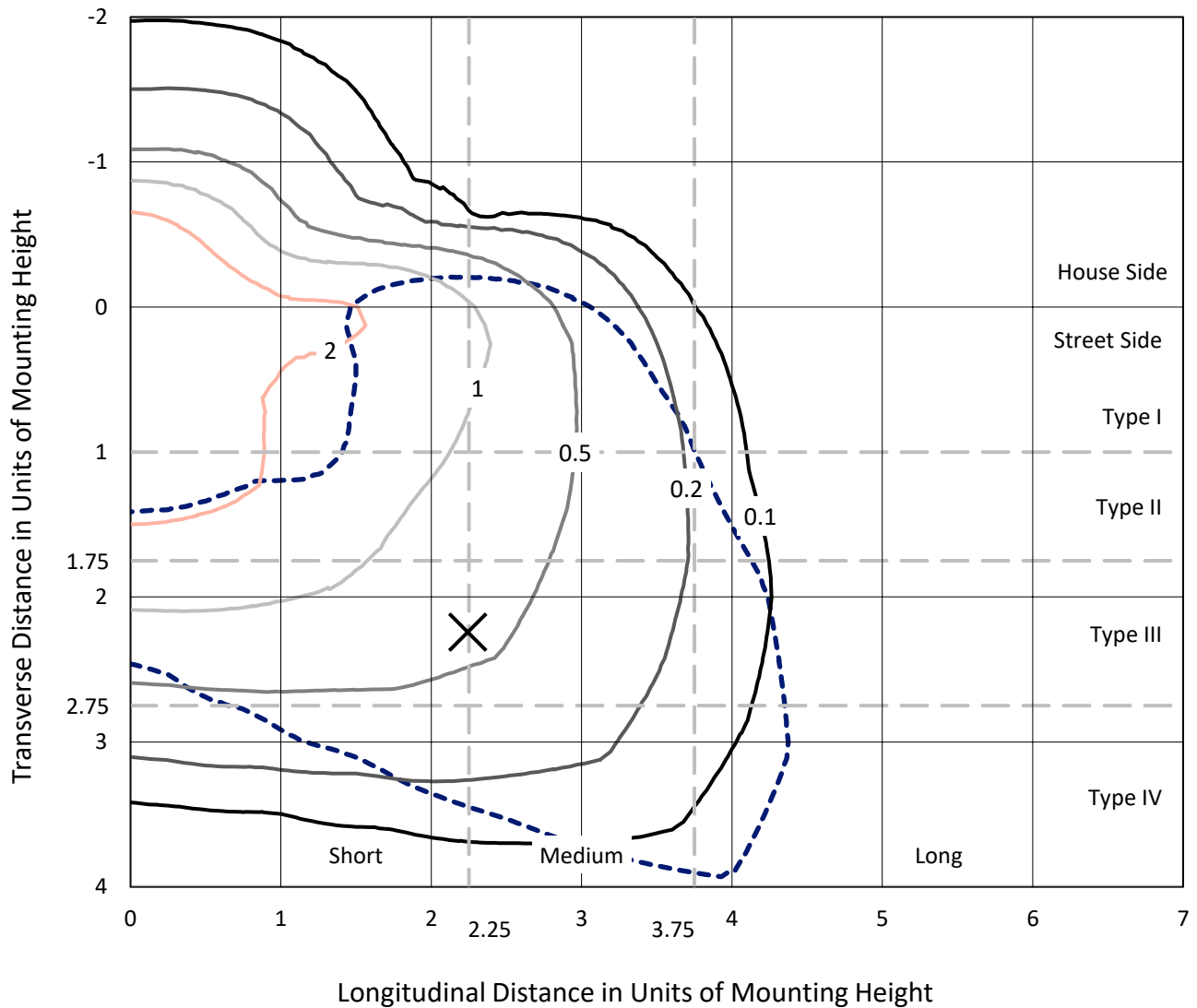
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

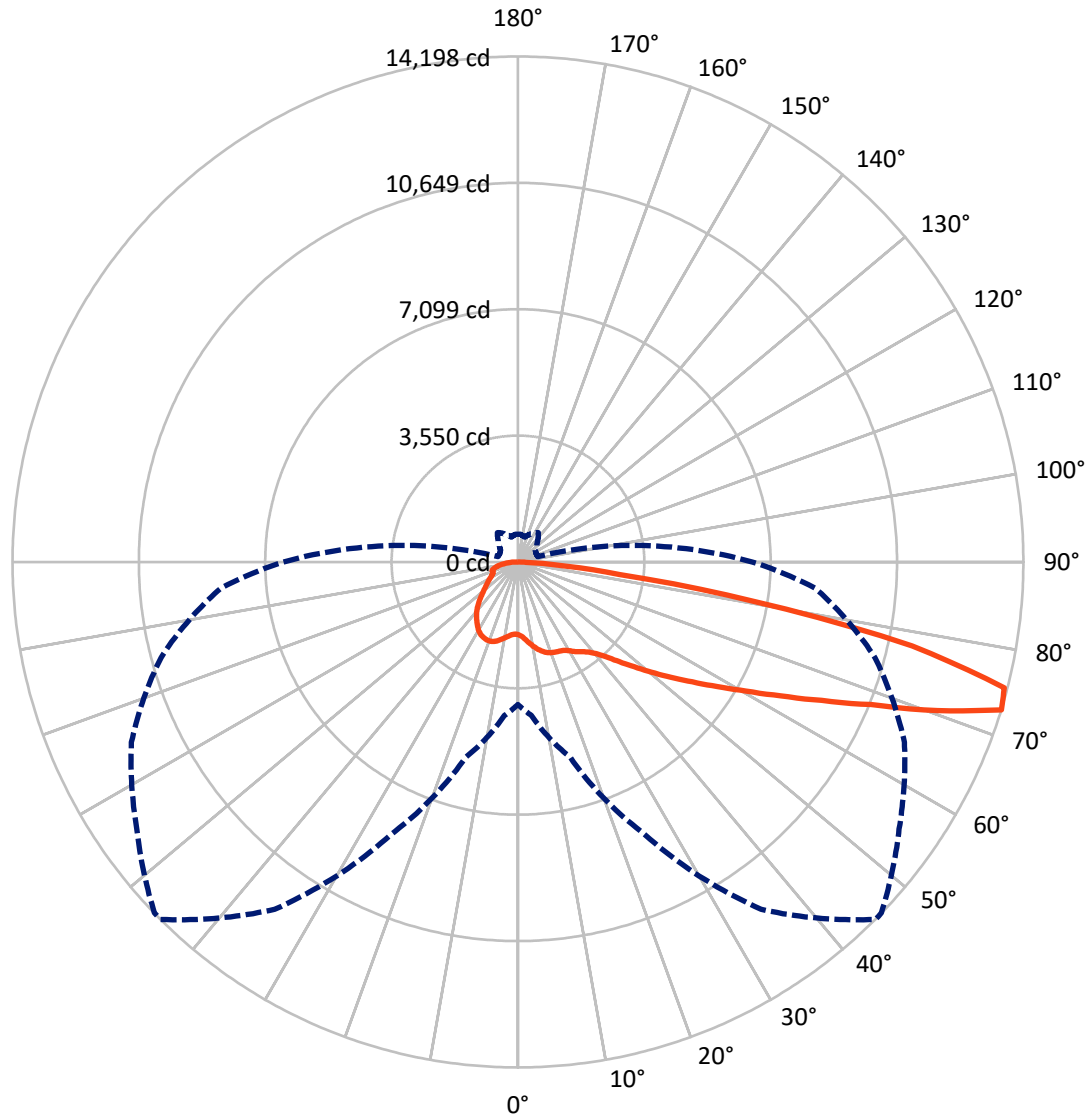
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	4575.3	0.0	4575.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15663.7	0.0	15663.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	20239.0	0.0	20239.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.8	1.0
10°-20°	692.9	3.4
20°-30°	1205.3	6.0
30°-40°	1727.8	8.5
40°-50°	2432.9	12.0
50°-60°	3726.4	18.4
60°-70°	5398.3	26.7
70°-80°	4310.8	21.3
80°-90°	536.9	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°	20239.0	100.0
0°-180°	20239.0	100.0



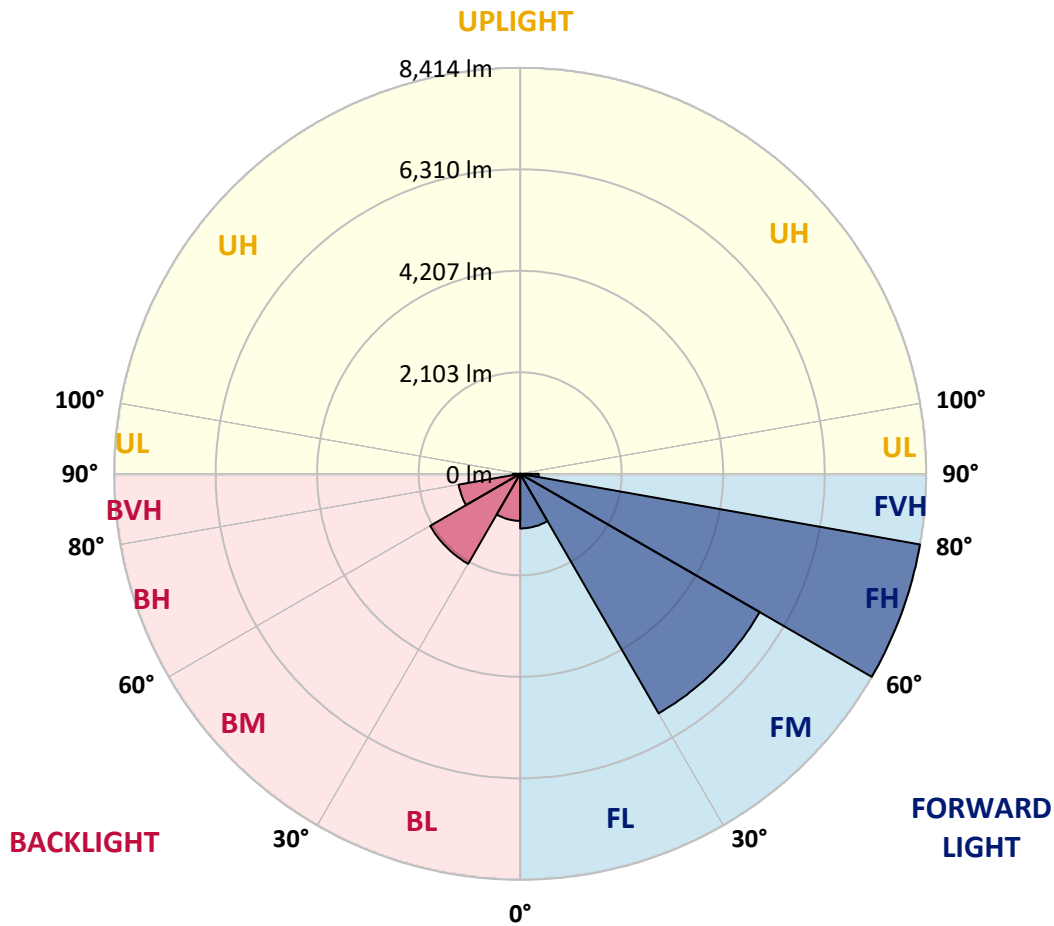
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.8	5.6			
FM (30°-60°)	5732.7	28.3			
FH (60°-80°)	8413.9	41.6			G4/12000
FVH (80°-90°)	385.2	1.9			G3/500
BL (0°-30°)	974.1	4.8	B2/1000		
BM (30°-60°)	2154.3	10.6	B2/2500		
BH (60°-80°)	1295.2	6.4	B3/2500		G3/2500
BVH (80°-90°)	151.7	0.7			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°	45°	46°	55°	65°	75°
0°	2041.7	2041.7	2041.7	2041.7	2041.7	2041.7	2041.7	2041.7	2041.7	2041.7
2.5°	2121.7	2135.5	2122.8	2111.0	2105.7	2091.8	2090.8	2082.2	2076.9	2062.0
5°	2269.9	2288.0	2266.7	2243.2	2221.9	2187.8	2183.5	2159.0	2131.3	2099.3
7.5°	2437.3	2453.3	2428.7	2393.6	2356.2	2299.7	2298.7	2253.9	2210.2	2155.8
10°	2583.3	2604.7	2571.6	2523.6	2476.7	2412.7	2405.3	2354.1	2298.7	2228.3
12.5°	2712.3	2727.3	2695.3	2636.6	2582.3	2518.3	2508.7	2452.2	2390.4	2310.4
15°	2814.7	2833.9	2791.2	2728.3	2670.8	2607.9	2599.3	2548.2	2486.3	2402.1
17.5°	2881.9	2897.9	2854.1	2783.8	2728.3	2676.1	2669.7	2627.1	2572.7	2487.4
20°	2907.5	2924.5	2878.7	2807.2	2756.1	2715.5	2712.3	2681.4	2644.1	2566.3
22.5°	2933.0	2949.0	2889.3	2814.7	2769.9	2744.3	2743.3	2723.0	2708.1	2644.1
25°	3036.5	3040.7	2960.8	2853.1	2789.1	2766.7	2765.7	2764.6	2771.0	2720.9
27.5°	3126.0	3125.0	3056.7	2955.4	2856.3	2809.4	2808.3	2819.0	2839.2	2797.6
30°	3257.2	3245.4	3164.4	3058.9	2968.2	2895.7	2889.3	2879.7	2895.7	2862.7
32.5°	3535.4	3498.1	3367.0	3179.3	3061.0	3005.5	2997.0	2937.3	2943.7	2923.4
35°	3934.2	3885.1	3710.3	3407.5	3176.1	3097.2	3093.0	3017.3	3004.5	2986.4
37.5°	4408.6	4347.9	4144.2	3738.0	3374.4	3203.8	3197.5	3129.2	3077.0	3057.8
40°	4885.2	4808.4	4640.0	4141.0	3666.6	3381.9	3361.6	3258.2	3198.5	3166.5
42.5°	5347.9	5284.0	5140.0	4593.1	4026.9	3642.0	3597.3	3420.3	3375.5	3345.7
45°	5757.3	5699.8	5594.2	5076.0	4449.1	3996.0	3952.3	3663.4	3649.5	3649.5
47.5°	6090.0	6077.2	5965.2	5568.6	4947.0	4399.0	4323.3	4001.3	4038.7	4096.2
50°	6458.9	6423.7	6304.3	6053.7	5532.4	4860.7	4798.8	4416.1	4555.8	4713.6
52.5°	6797.9	6817.1	6683.8	6559.1	6193.4	5375.6	5266.9	4905.5	5207.2	5468.4
55°	7146.6	7147.6	7110.3	7093.2	6886.4	5945.0	5825.6	5494.0	5973.8	6297.9
57.5°	7473.9	7476.0	7531.4	7681.8	7690.3	6601.7	6466.3	6216.9	6825.6	7156.2
60°	7766.0	7780.9	7932.3	8284.2	8397.2	7354.5	7226.5	7070.9	7706.3	8038.9
62.5°	7864.1	7918.5	8255.4	8755.4	9095.5	8277.8	8152.0	8059.2	8631.7	8940.9
65°	7697.8	7822.5	8473.9	9144.6	9814.1	9374.9	9250.1	9148.8	9593.4	9884.5
67.5°	7289.4	7450.4	8461.1	9552.9	10686.3	10694.8	10578.6	10340.8	10624.4	10736.4
70°	6213.7	6454.6	7715.9	9705.4	11687.4	12499.8	12387.9	11775.9	11653.3	11111.7
72.5°	4003.5	4327.6	5681.6	8450.5	11910.2	14198.2	14191.8	13071.3	11978.5	10382.4
75°	1460.7	1659.0	2639.8	5304.2	9997.5	14111.9	14153.4	12849.5	10934.7	8019.8
77.5°	532.0	582.1	861.5	2038.5	6148.6	11322.8	11409.1	10272.6	7783.1	4024.8
80°	279.3	307.1	441.4	791.1	2634.5	6724.4	6859.8	6104.9	3658.0	1212.2
82.5°	154.6	167.4	247.4	429.7	1186.7	2875.5	2956.5	2411.7	1286.9	513.9
85°	83.2	88.5	116.2	234.6	580.0	996.9	1019.3	720.7	512.8	301.7
87.5°	24.5	29.9	38.4	74.6	227.1	223.9	229.2	142.9	202.6	152.5
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°
2041.7	0°	2041.7	2041.7	2041.7	2041.7	2041.7	2041.7	2041.7	2041.7	2041.7	2041.7
2057.7	2.5°	2051.3	2048.1	2036.4	2031.1	2024.7	2023.6	2028.9	2030.0	2031.1	2032.1
2081.2	5°	2070.5	2059.8	2049.2	2042.8	2044.9	2046.0	2056.6	2064.1	2069.4	2073.7
2124.9	7.5°	2107.8	2099.3	2081.2	2080.1	2083.3	2092.9	2106.8	2123.8	2133.4	2140.9
2181.4	10°	2163.3	2147.3	2125.9	2129.1	2135.5	2149.4	2178.2	2192.1	2208.0	2221.9
2250.7	12.5°	2219.8	2205.9	2181.4	2183.5	2194.2	2218.7	2246.4	2263.5	2274.1	2284.8
2325.3	15°	2293.3	2268.8	2242.2	2242.2	2261.4	2288.0	2300.8	2314.7	2321.1	2332.8
2405.3	17.5°	2369.0	2337.1	2301.9	2299.7	2323.2	2336.0	2343.4	2345.6	2347.7	2360.5
2483.1	20°	2444.7	2409.6	2359.4	2355.2	2360.5	2358.4	2357.3	2355.2	2358.4	2374.4
2563.1	22.5°	2519.4	2478.9	2409.6	2390.4	2375.4	2355.2	2354.1	2353.0	2355.2	2371.2
2649.4	25°	2606.8	2557.7	2465.0	2407.4	2357.3	2329.6	2332.8	2333.9	2336.0	2348.8
2739.0	27.5°	2701.7	2647.3	2516.2	2402.1	2311.5	2292.3	2286.9	2290.1	2297.6	2317.9
2828.6	30°	2796.6	2732.6	2563.1	2380.8	2253.9	2227.2	2210.2	2217.6	2241.1	2261.4
2906.4	32.5°	2882.9	2819.0	2600.4	2333.9	2180.3	2138.7	2116.4	2125.9	2149.4	2156.9
2992.7	35°	2984.2	2911.7	2616.4	2259.2	2100.4	2036.4	2006.5	1992.7	2004.4	1996.9
3094.0	37.5°	3097.2	3021.5	2614.3	2161.1	2006.5	1933.0	1891.4	1839.1	1814.6	1789.0
3243.3	40°	3264.6	3155.9	2588.7	2042.8	1890.3	1823.2	1748.5	1660.0	1604.6	1554.5
3484.3	42.5°	3492.8	3342.5	2541.8	1912.7	1759.2	1696.3	1595.0	1491.6	1404.1	1321.0
3850.0	45°	3832.9	3586.6	2483.1	1774.1	1617.4	1555.5	1445.7	1329.5	1230.4	1123.7
4369.2	47.5°	4323.3	3915.0	2427.7	1616.3	1468.1	1411.6	1312.5	1204.8	1087.5	984.1
5119.8	50°	4997.2	4386.2	2376.5	1462.8	1321.0	1278.3	1199.4	1089.6	971.3	888.1
5999.4	52.5°	5854.4	5027.0	2355.2	1314.6	1183.5	1167.5	1104.6	1002.2	890.3	819.9
7025.0	55°	6838.4	5793.6	2355.2	1172.8	1063.0	1068.3	1024.6	929.7	832.7	769.8
8082.7	57.5°	7842.8	6569.8	2312.5	1041.7	960.6	983.0	955.3	872.1	784.7	719.7
9194.7	60°	8768.2	7220.1	2139.8	922.2	870.0	905.2	887.1	815.6	709.0	654.6
10124.4	62.5°	9479.3	7586.9	1807.2	827.4	795.4	835.9	826.3	741.0	695.1	672.8
10887.8	65°	9835.4	7527.2	1381.8	743.1	732.5	795.4	775.1	771.9	735.7	710.1
11136.2	67.5°	9616.9	7013.3	1002.2	681.3	696.2	758.0	835.9	848.7	781.5	731.4
10436.8	70°	8658.4	6083.6	746.3	622.6	650.4	759.1	953.2	888.1	766.6	707.9
8370.5	72.5°	6586.8	4536.6	578.9	560.8	590.7	764.4	1005.4	870.0	723.9	782.6
5214.7	75°	3766.8	2490.6	464.9	485.1	516.0	714.3	978.7	823.1	690.9	718.6
2066.2	77.5°	1436.1	957.4	383.8	410.5	414.7	623.7	936.1	819.9	657.8	641.8
619.4	80°	497.9	374.2	317.7	326.2	320.9	554.4	897.7	713.3	538.4	481.9
255.9	82.5°	203.6	186.6	251.6	241.0	228.2	430.7	725.0	583.2	440.3	389.2
123.7	85°	88.5	118.3	166.3	146.1	132.2	298.5	581.1	493.6	372.1	320.9
40.5	87.5°	18.1	44.8	70.4	66.1	68.2	199.4	412.6	350.8	263.3	197.2
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>
2041.7
2036.4
2075.8
2143.0
2218.7
2289.1
2337.1
2364.8
2380.8
2381.8
2365.8
2338.1
2283.7
2183.5
2020.4
1805.0
1557.7
1313.5
1111.0
972.3
882.8
814.6
763.4
709.0
646.1
665.3
701.5
722.9
698.3
776.2
718.6
585.3
465.9
384.9
319.9
154.6
0.0

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