

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: P949300

Luminaire Tested: **GALN-SB4A-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16584 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

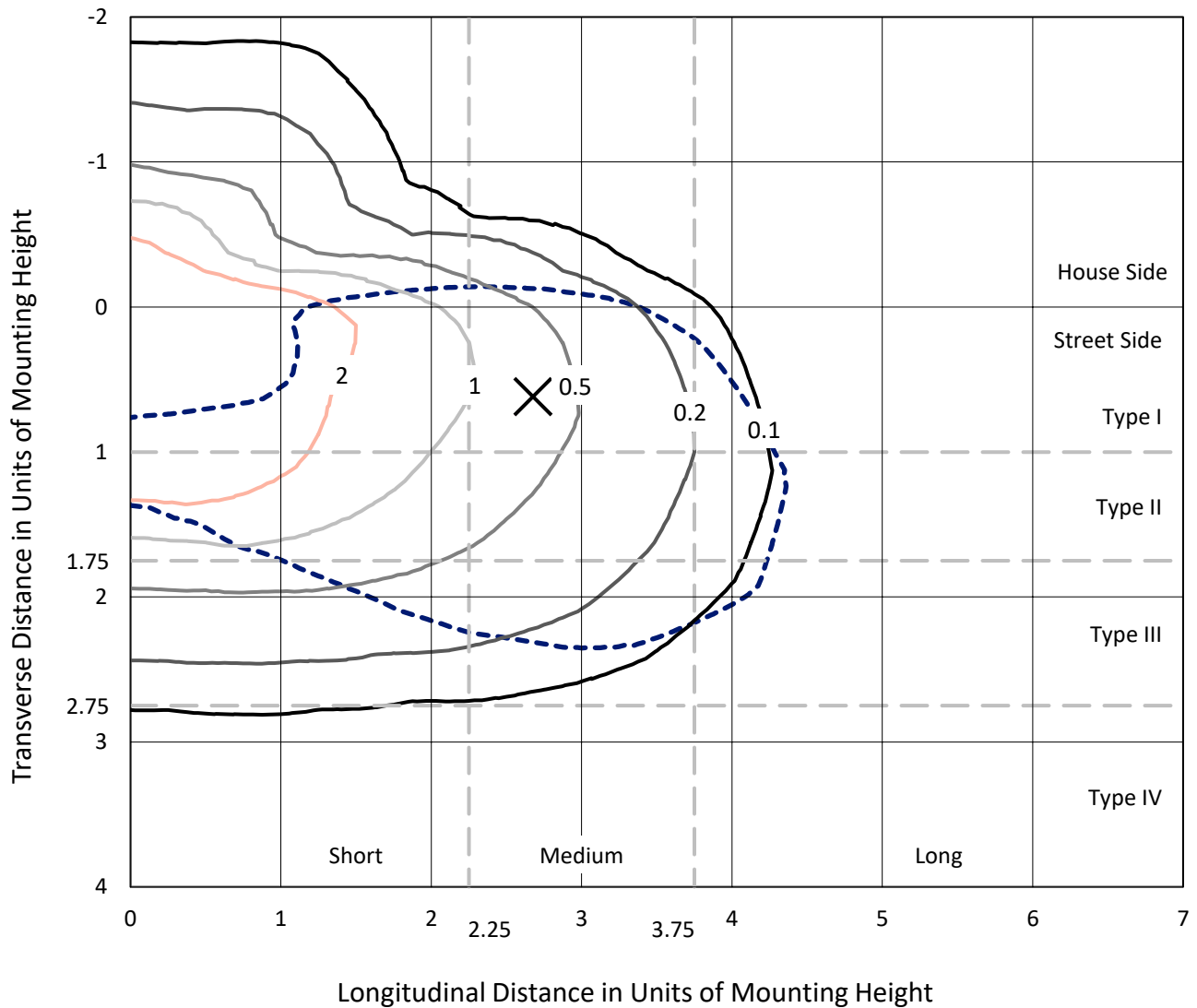
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

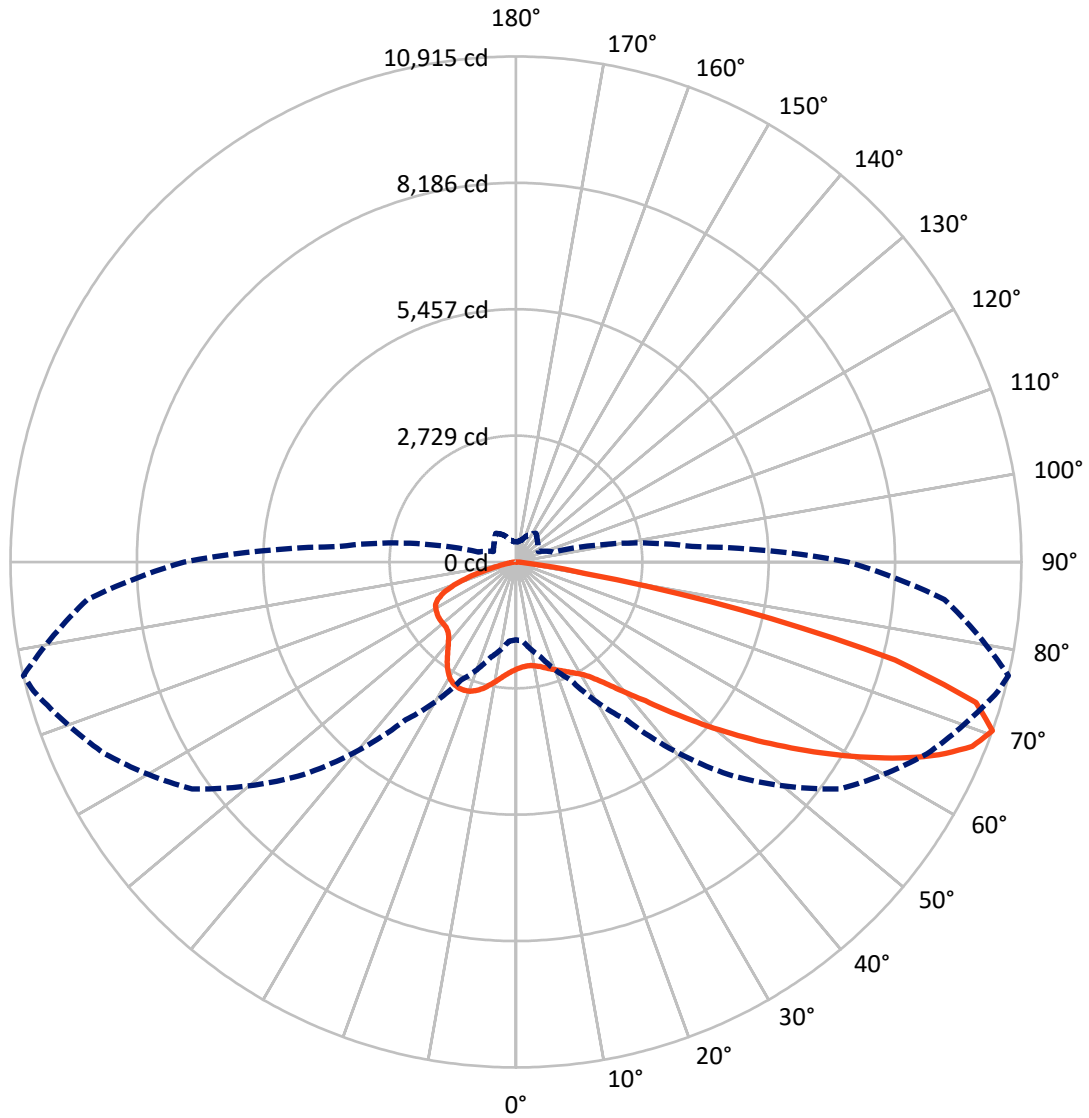
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3631.6	0.0	3631.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12952.4	0.0	12952.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	16584.0	0.0	16584.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.7	1.3
10°-20°	636.8	3.8
20°-30°	1089.1	6.6
30°-40°	1751.4	10.6
40°-50°	2734.3	16.5
50°-60°	3652.4	22.0
60°-70°	3892.9	23.5
70°-80°	2396.4	14.5
80°-90°	210.0	1.3
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°	16584.0	100.0
0°-180°	16584.0	100.0



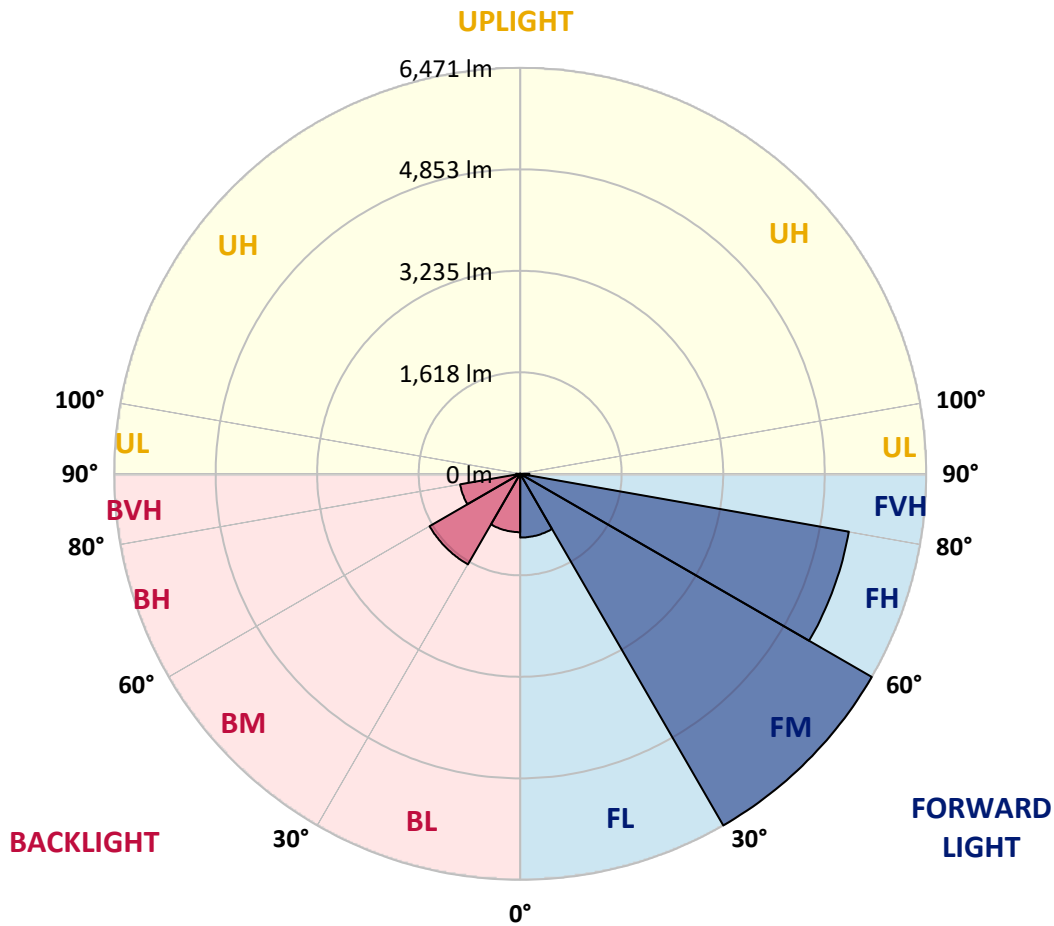
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1016.0	6.1			
FM (30°-60°)	6470.7	39.0			
FH (60°-80°)	5318.8	32.1			G3/7500
FVH (80°-90°)	146.8	0.9			G2/225
BL (0°-30°)	930.5	5.6	B2/1000		
BM (30°-60°)	1667.4	10.1	B2/2500		
BH (60°-80°)	970.6	5.9	B2/1000		G2/1000
BVH (80°-90°)	63.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6
2.5°	2132.7	2131.9	2142.9	2146.3	2166.7	2181.1	2208.3	2237.2	2274.5	2278.8
5°	2009.6	2009.6	2022.3	2035.9	2062.2	2091.1	2132.7	2182.8	2247.4	2257.6
7.5°	1905.1	1911.9	1922.9	1949.2	1979.8	2021.4	2085.1	2156.5	2241.4	2257.6
10°	1821.0	1828.6	1842.2	1863.5	1909.3	1967.1	2050.3	2142.1	2255.9	2281.3
12.5°	1794.7	1802.3	1810.0	1826.1	1868.6	1936.5	2035.9	2148.8	2290.7	2316.2
15°	1855.8	1865.2	1859.2	1855.0	1877.1	1939.1	2042.7	2173.5	2334.0	2370.5
17.5°	1996.8	2000.2	1986.6	1946.7	1943.3	1976.4	2075.0	2207.5	2388.4	2428.3
20°	2224.4	2218.5	2190.5	2111.5	2066.5	2059.7	2130.2	2258.4	2444.4	2486.9
22.5°	2533.6	2526.8	2470.7	2345.9	2245.7	2179.4	2210.0	2324.7	2507.3	2554.8
25°	2919.2	2909.9	2827.5	2657.6	2502.2	2338.3	2318.7	2412.1	2584.6	2628.7
27.5°	3369.4	3361.7	3272.5	3048.3	2824.1	2555.7	2453.8	2514.9	2665.2	2715.4
30°	3853.5	3875.6	3717.6	3476.4	3192.7	2839.4	2635.5	2641.5	2769.7	2814.7
32.5°	4422.5	4460.8	4270.5	3964.7	3577.4	3147.7	2864.8	2818.1	2921.8	2959.1
35°	4986.5	5029.8	4871.9	4533.8	4087.9	3511.2	3104.4	3021.1	3123.9	3164.7
37.5°	5474.0	5531.8	5450.3	5156.4	4634.0	3949.5	3416.9	3259.8	3372.8	3423.7
40°	5858.8	5947.1	5941.2	5757.7	5277.8	4481.2	3813.6	3554.5	3681.9	3737.1
42.5°	6171.4	6247.8	6314.0	6304.7	5949.7	5085.0	4279.9	3937.6	4034.4	4098.1
45°	6387.1	6468.6	6611.3	6765.0	6596.0	5731.4	4814.1	4392.0	4480.3	4576.3
47.5°	6579.9	6672.5	6857.6	7101.4	7144.7	6380.3	5399.3	4921.1	5001.8	5101.2
50°	6596.9	6676.7	6963.8	7309.5	7534.6	7003.7	6027.8	5514.8	5590.4	5696.6
52.5°	6186.6	6312.3	6813.5	7303.5	7713.8	7525.2	6652.1	6132.3	6217.2	6344.6
55°	4802.2	4986.5	6372.6	7075.9	7650.1	7862.4	7245.8	6788.8	6897.5	7030.9
57.5°	4136.3	4217.0	5058.7	6661.4	7359.6	7949.9	7746.9	7452.2	7627.1	7773.2
60°	3717.6	3784.7	4282.4	6016.8	6977.4	7811.4	8134.2	8070.5	8372.9	8547.0
62.5°	3269.1	3332.8	3785.5	5023.9	6488.2	7581.3	8378.8	8641.2	9137.3	9327.5
65°	2824.1	2878.4	3312.5	4221.3	5866.4	7351.1	8505.4	9134.7	9844.8	10041.8
67.5°	2328.1	2373.1	2783.3	3561.3	5110.5	7036.0	8568.2	9522.9	10460.5	10629.6
70°	1680.0	1714.8	2138.7	2816.4	4161.8	6494.1	8542.7	9798.1	10779.9	10914.9
72.5°	794.1	825.6	1323.3	1828.6	2939.6	5439.2	8027.2	9579.8	10455.5	10388.4
75°	423.8	451.0	760.2	1003.1	1552.6	3728.6	6568.8	8252.2	8779.7	8453.5
77.5°	287.1	308.3	470.5	602.2	709.2	1770.0	4222.1	5713.6	5497.0	4958.5
80°	227.6	249.7	385.6	407.7	343.1	639.6	1744.6	2644.9	1900.0	1519.5
82.5°	175.0	199.6	324.5	295.6	186.9	262.4	507.9	836.6	486.7	370.3
85°	107.0	133.3	254.8	188.6	105.3	119.8	172.4	232.7	148.6	124.0
87.5°	54.4	76.4	129.1	68.8	47.6	28.0	45.9	45.9	39.1	34.0
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°
2313.6	0°	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6
2301.7	2.5°	2322.1	2339.1	2368.0	2395.2	2416.4	2436.8	2457.2	2468.2	2471.6	2485.2
2314.5	5°	2349.3	2380.7	2436.8	2489.4	2522.6	2542.9	2557.4	2565.9	2567.6	2571.8
2349.3	7.5°	2399.4	2449.5	2527.7	2580.3	2604.9	2603.2	2597.3	2576.1	2567.6	2559.9
2400.3	10°	2469.9	2536.1	2632.1	2668.6	2653.4	2612.6	2559.9	2497.9	2469.0	2441.0
2469.9	12.5°	2557.4	2641.5	2735.7	2734.0	2658.5	2554.0	2431.7	2336.6	2276.2	2232.9
2555.7	15°	2663.5	2760.4	2832.6	2774.8	2609.2	2421.5	2242.3	2118.3	2063.9	2016.3
2642.3	17.5°	2773.1	2876.7	2909.9	2762.1	2485.2	2225.3	2022.3	1924.6	1871.1	1845.6
2735.7	20°	2880.1	2982.9	2955.7	2689.0	2296.6	2002.8	1821.8	1768.3	1757.3	1763.2
2826.6	22.5°	2993.1	3084.8	2965.1	2548.0	2056.3	1775.1	1675.8	1677.5	1702.1	1719.9
2921.8	25°	3108.6	3170.6	2940.4	2344.2	1798.1	1607.8	1583.2	1610.4	1658.8	1693.6
3028.8	27.5°	3219.9	3247.1	2886.9	2091.9	1576.4	1488.1	1492.3	1548.4	1621.4	1669.8
3158.7	30°	3345.6	3315.0	2784.2	1808.3	1422.7	1385.3	1421.0	1486.4	1559.4	1602.7
3322.6	32.5°	3487.4	3373.6	2621.1	1545.8	1313.9	1302.9	1361.5	1404.0	1436.2	1449.0
3540.1	35°	3664.1	3456.0	2412.1	1361.5	1216.3	1242.6	1298.7	1277.4	1264.7	1257.9
3832.3	37.5°	3893.4	3567.3	2167.5	1241.7	1137.3	1199.3	1222.2	1156.0	1105.8	1081.2
4186.4	40°	4169.4	3730.3	1932.3	1149.2	1087.2	1161.9	1122.0	1042.1	978.4	943.6
4584.8	42.5°	4476.1	3901.0	1734.4	1079.5	1059.1	1131.3	1048.1	953.0	850.2	839.2
5059.6	45°	4798.0	4076.9	1599.3	1026.0	1045.5	1105.0	1005.6	851.9	778.9	823.9
5536.0	47.5°	5119.9	4238.2	1517.8	986.1	1038.8	1075.3	968.3	795.8	744.0	809.4
6046.5	50°	5478.3	4382.6	1481.3	957.2	1031.1	1063.4	912.2	781.4	707.5	750.8
6574.8	52.5°	5834.2	4494.7	1454.1	928.3	1020.1	1054.0	885.0	764.4	663.3	665.9
7106.5	55°	6189.2	4567.8	1424.4	890.1	995.4	1033.7	882.5	745.7	630.2	618.3
7668.7	57.5°	6568.0	4609.4	1387.8	847.6	953.0	981.8	879.9	731.3	620.0	600.5
8243.8	60°	6953.6	4670.6	1340.3	795.8	896.1	919.8	874.0	726.2	614.1	581.0
8785.6	62.5°	7299.3	4691.8	1283.4	746.6	823.0	858.7	861.2	721.9	597.9	541.0
9235.8	65°	7526.1	4600.1	1184.0	690.5	744.0	795.8	836.6	707.5	569.1	512.2
9458.3	67.5°	7516.7	4338.5	1028.6	618.3	667.6	726.2	800.9	682.9	534.2	476.5
9290.1	70°	7166.8	3822.1	831.5	534.2	583.5	651.4	755.1	646.4	492.6	437.4
8260.7	72.5°	6146.7	2991.4	603.9	435.7	485.8	574.2	695.6	602.2	450.2	402.6
6105.1	75°	4391.1	1893.2	409.4	334.6	378.0	486.7	621.7	550.4	411.1	404.3
3057.6	77.5°	2243.1	904.6	270.9	244.6	263.3	383.9	522.3	491.8	417.0	333.8
869.7	80°	729.6	333.8	170.7	166.5	175.0	255.7	404.3	403.4	316.0	226.8
210.6	82.5°	232.7	143.5	111.3	107.0	102.8	160.5	282.0	319.4	213.2	143.5
75.6	85°	92.6	85.8	65.4	60.3	43.3	75.6	147.8	212.3	158.8	103.6
19.5	87.5°	34.0	34.0	17.8	12.7	9.3	25.5	39.9	63.7	90.9	53.5
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>
2313.6
2492.8
2578.6
2561.6
2432.5
2222.7
2011.3
1853.3
1760.7
1724.2
1702.9
1681.7
1612.9
1455.8
1264.7
1087.2
946.2
850.2
847.6
840.0
783.1
683.7
626.8
603.0
583.5
541.0
512.2
479.0
442.5
400.0
381.4
297.3
200.4
142.7
106.2
52.7
0.0

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