

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: P948292

Luminaire Tested: **GALN-SB3B-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948292
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-SB3B-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16590 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

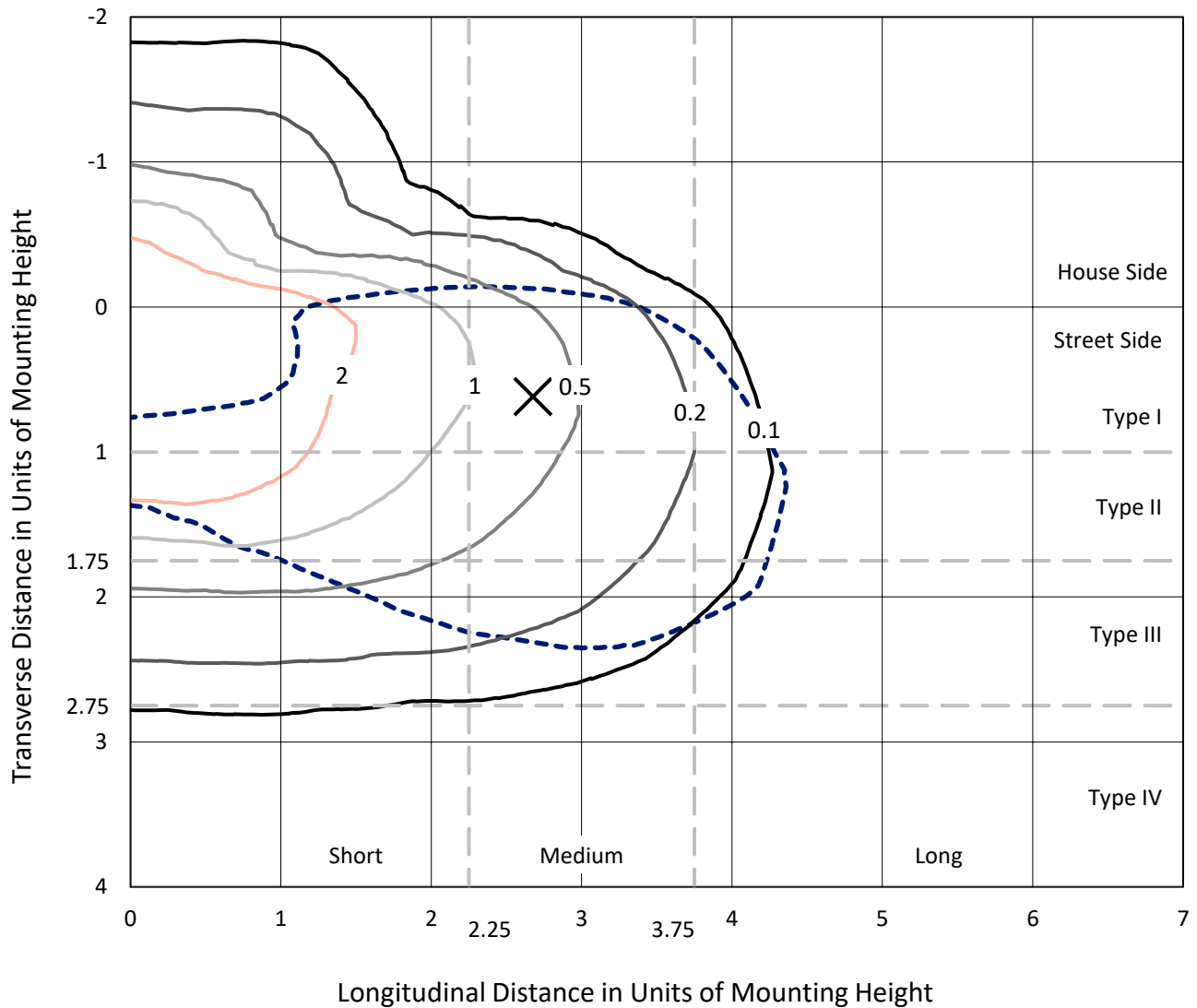
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

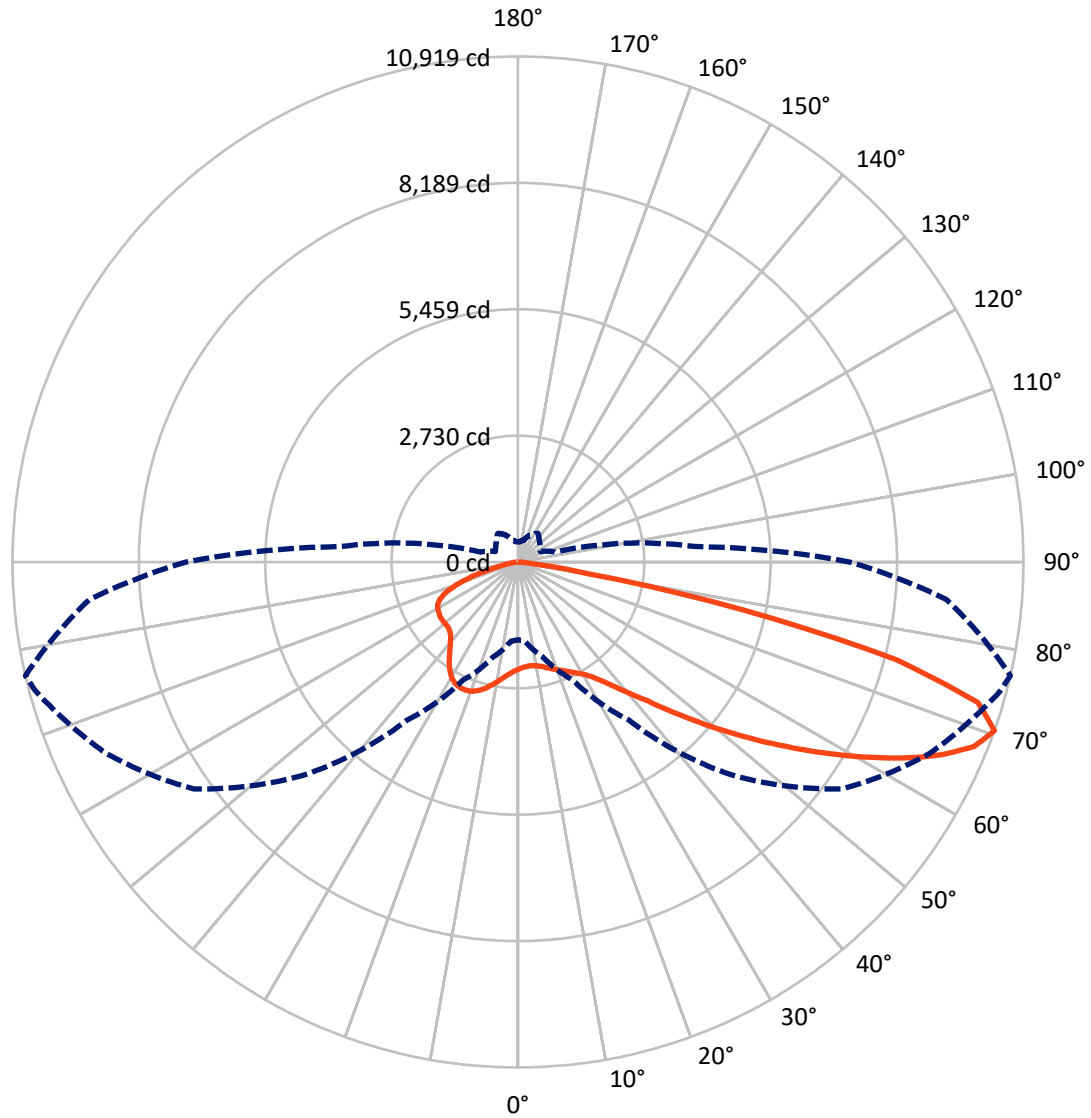
✕ Max cd
 - - - 1/2 Max cd



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	3632.9	0.0	3632.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12957.0	0.0	12957.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	16590.0	0.0	16590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.7	1.3
10°-20°	637.1	3.8
20°-30°	1089.5	6.6
30°-40°	1752.0	10.6
40°-50°	2735.3	16.5
50°-60°	3653.7	22.0
60°-70°	3894.3	23.5
70°-80°	2397.3	14.5
80°-90°	210.1	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°	16590.0	100.0
0°-180°	16590.0	100.0

Coefficient of Utilization



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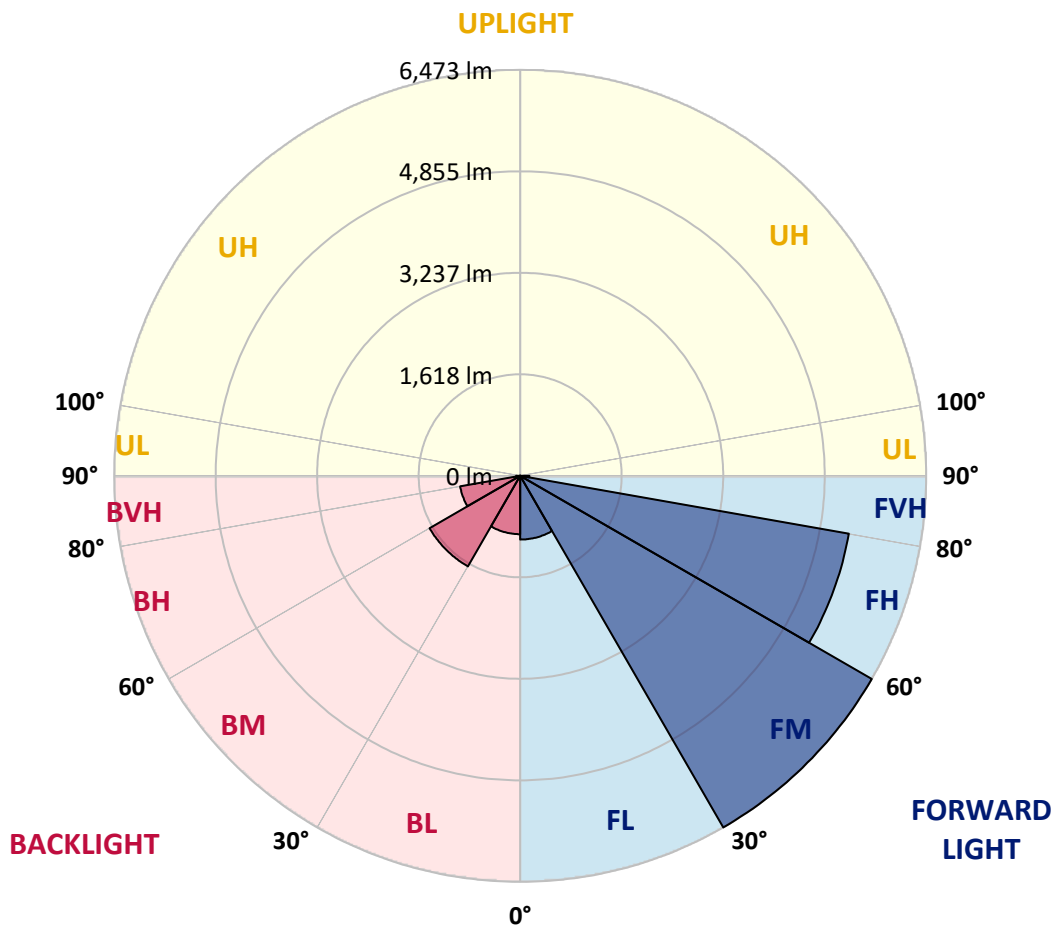
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1016.4	6.1			
FM (30°-60°)	6473.1	39.0			
FH (60°-80°)	5320.7	32.1			G3/7500
FVH (80°-90°)	146.9	0.9			G2/225
BL (0°-30°)	930.9	5.6	B2/1000		
BM (30°-60°)	1668.0	10.1	B2/2500		
BH (60°-80°)	970.9	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°	2314.5	2314.5	2314.5	2314.5	2314.5	2314.5	2314.5	2314.5	2314.5	2314.5
2.5°	2133.5	2132.6	2143.7	2147.1	2167.5	2181.9	2209.1	2238.0	2275.4	2279.6
5°	2010.3	2010.3	2023.0	2036.6	2063.0	2091.8	2133.5	2183.6	2248.2	2258.4
7.5°	1905.8	1912.6	1923.6	1950.0	1980.5	2022.2	2085.9	2157.3	2242.2	2258.4
10°	1821.7	1829.3	1842.9	1864.1	1910.0	1967.8	2051.1	2142.8	2256.7	2282.2
12.5°	1795.3	1803.0	1810.6	1826.8	1869.2	1937.2	2036.6	2149.6	2291.5	2317.0
15°	1856.5	1865.8	1859.9	1855.6	1877.7	1939.8	2043.4	2174.3	2334.8	2371.4
17.5°	1997.5	2000.9	1987.3	1947.4	1944.0	1977.1	2075.7	2208.2	2389.2	2429.2
20°	2225.2	2219.3	2191.3	2112.2	2067.2	2060.4	2130.9	2259.2	2445.3	2487.8
22.5°	2534.5	2527.7	2471.6	2346.7	2246.5	2180.2	2210.8	2325.5	2508.2	2555.8
25°	2920.3	2910.9	2828.5	2658.6	2503.1	2339.1	2319.6	2413.0	2585.5	2629.7
27.5°	3370.6	3362.9	3273.7	3049.4	2825.1	2556.6	2454.6	2515.8	2666.2	2716.3
30°	3854.9	3877.0	3718.9	3477.6	3193.8	2840.4	2636.5	2642.4	2770.7	2815.8
32.5°	4424.1	4462.4	4272.1	3966.2	3578.7	3148.8	2865.9	2819.2	2922.8	2960.2
35°	4988.3	5031.6	4873.6	4535.5	4089.4	3512.5	3105.5	3022.2	3125.0	3165.8
37.5°	5476.0	5533.8	5452.2	5158.2	4635.7	3950.9	3418.2	3261.0	3374.0	3425.0
40°	5860.9	5949.3	5943.3	5759.8	5279.7	4482.8	3814.9	3555.8	3683.2	3738.5
42.5°	6173.6	6250.1	6316.3	6307.0	5951.8	5086.9	4281.4	3939.0	4035.9	4099.6
45°	6389.4	6471.0	6613.7	6767.5	6598.4	5733.5	4815.8	4393.6	4481.9	4577.9
47.5°	6582.3	6674.9	6860.1	7104.0	7147.3	6382.6	5401.2	4922.9	5003.6	5103.0
50°	6599.3	6679.1	6966.3	7312.1	7537.3	7006.2	6030.0	5516.8	5592.4	5698.6
52.5°	6188.9	6314.6	6815.9	7306.2	7716.6	7527.9	6654.5	6134.5	6219.5	6346.9
55°	4803.9	4988.3	6375.0	7078.5	7652.8	7865.2	7248.4	6791.3	6900.0	7033.4
57.5°	4137.8	4218.5	5060.5	6663.8	7362.2	7952.8	7749.7	7454.9	7629.9	7776.0
60°	3718.9	3786.1	4284.0	6018.9	6979.9	7814.3	8137.1	8073.4	8375.9	8550.1
62.5°	3270.3	3334.0	3786.9	5025.7	6490.5	7584.0	8381.8	8644.4	9140.6	9330.9
65°	2825.1	2879.5	3313.6	4222.8	5868.6	7353.8	8508.4	9138.0	9848.3	10045.5
67.5°	2328.9	2373.9	2784.3	3562.6	5112.4	7038.5	8571.3	9526.3	10464.3	10633.4
70°	1680.6	1715.5	2139.4	2817.5	4163.3	6496.5	8545.8	9801.6	10783.8	10918.9
72.5°	794.4	825.9	1323.8	1829.3	2940.7	5441.2	8030.1	9583.2	10459.2	10392.1
75°	424.0	451.2	760.4	1003.4	1553.2	3730.0	6571.2	8255.2	8782.9	8456.6
77.5°	287.2	308.4	470.7	602.4	709.5	1770.7	4223.6	5715.6	5499.0	4960.3
80°	227.7	249.8	385.7	407.8	343.3	639.8	1745.2	2645.8	1900.7	1520.0
82.5°	175.0	199.7	324.6	295.7	186.9	262.5	508.1	836.9	486.9	370.4
85°	107.1	133.4	254.9	188.6	105.4	119.8	172.5	232.8	148.7	124.0
87.5°	54.4	76.5	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°
2314.5	0°	2314.5	2314.5	2314.5	2314.5	2314.5	2314.5	2314.5	2314.5	2314.5	2314.5
2302.6	2.5°	2323.0	2339.9	2368.8	2396.0	2417.3	2437.7	2458.0	2469.1	2472.5	2486.1
2315.3	5°	2350.1	2381.6	2437.7	2490.3	2523.5	2543.9	2558.3	2566.8	2568.5	2572.8
2350.1	7.5°	2400.3	2450.4	2528.6	2581.2	2605.9	2604.2	2598.2	2577.0	2568.5	2560.9
2401.1	10°	2470.8	2537.1	2633.1	2669.6	2654.3	2613.5	2560.9	2498.8	2469.9	2441.9
2470.8	12.5°	2558.3	2642.4	2736.7	2735.0	2659.4	2554.9	2432.6	2337.4	2277.1	2233.7
2556.6	15°	2664.5	2761.4	2833.6	2775.8	2610.1	2422.4	2243.1	2119.0	2064.7	2017.1
2643.3	17.5°	2774.1	2877.8	2910.9	2763.1	2486.1	2226.1	2023.0	1925.3	1871.8	1846.3
2736.7	20°	2881.2	2984.0	2956.8	2690.0	2297.5	2003.5	1822.5	1769.0	1757.9	1763.9
2827.6	22.5°	2994.2	3085.9	2966.1	2549.0	2057.0	1775.8	1676.4	1678.1	1702.7	1720.5
2922.8	25°	3109.7	3171.8	2941.5	2345.0	1798.7	1608.4	1583.8	1610.9	1659.4	1694.2
3029.9	27.5°	3221.0	3248.2	2888.0	2092.7	1577.0	1488.6	1492.8	1548.9	1622.0	1670.4
3159.9	30°	3346.8	3316.2	2785.2	1808.9	1423.2	1385.8	1421.5	1486.9	1560.0	1603.3
3323.8	32.5°	3488.7	3374.8	2622.0	1546.4	1314.4	1303.4	1362.0	1404.5	1436.8	1449.5
3541.4	35°	3665.4	3457.2	2413.0	1362.0	1216.7	1243.0	1299.1	1277.9	1265.1	1258.3
3833.6	37.5°	3894.8	3568.5	2168.3	1242.2	1137.7	1199.7	1222.7	1156.4	1106.2	1081.6
4187.9	40°	4170.9	3731.7	1933.0	1149.6	1087.6	1162.3	1122.4	1042.5	978.8	944.0
4586.4	42.5°	4477.7	3902.5	1735.0	1079.9	1059.5	1131.7	1048.5	953.3	850.5	839.5
5061.4	45°	4799.7	4078.3	1599.9	1026.4	1045.9	1105.4	1006.0	852.2	779.1	824.2
5538.0	47.5°	5121.7	4239.8	1518.3	986.4	1039.1	1075.7	968.6	796.1	744.3	809.7
6048.7	50°	5480.3	4384.2	1481.8	957.6	1031.5	1063.8	912.5	781.7	707.8	751.1
6577.2	52.5°	5836.3	4496.4	1454.6	928.7	1020.4	1054.4	885.3	764.7	663.6	666.1
7109.1	55°	6191.4	4569.4	1424.9	890.4	995.8	1034.0	882.8	746.0	630.4	618.5
7671.5	57.5°	6570.4	4611.1	1388.3	848.0	953.3	982.2	880.2	731.6	620.2	600.7
8246.7	60°	6956.1	4672.2	1340.8	796.1	896.4	920.2	874.3	726.5	614.3	581.2
8788.8	62.5°	7301.9	4693.5	1283.8	746.8	823.3	859.0	861.5	722.2	598.2	541.2
9239.1	65°	7528.8	4601.7	1184.4	690.8	744.3	796.1	836.9	707.8	569.3	512.3
9461.7	67.5°	7519.4	4340.0	1028.9	618.5	667.8	726.5	801.2	683.1	534.4	476.7
9293.5	70°	7169.4	3823.4	831.8	534.4	583.7	651.7	755.3	646.6	492.8	437.6
8263.7	72.5°	6148.9	2992.5	604.1	435.9	486.0	574.4	695.9	602.4	450.3	402.7
6107.3	75°	4392.7	1893.9	409.5	334.8	378.1	486.9	621.9	550.6	411.2	404.4
3058.8	77.5°	2243.9	904.9	271.0	244.7	263.4	384.0	522.5	491.9	417.2	333.9
870.0	80°	729.9	333.9	170.8	166.5	175.0	255.7	404.4	403.6	316.1	226.9
210.7	82.5°	232.8	143.6	111.3	107.1	102.8	160.6	282.1	319.5	213.3	143.6
75.6	85°	92.6	85.8	65.4	60.3	43.3	75.6	147.8	212.4	158.9	103.7
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>
2314.5
2493.7
2579.5
2562.6
2433.4
2223.5
2012.0
1853.9
1761.3
1724.8
1703.6
1682.3
1613.5
1456.3
1265.1
1087.6
946.5
850.5
848.0
840.3
783.4
684.0
627.0
603.3
583.7
541.2
512.3
479.2
442.7
400.2
381.5
297.4
200.5
142.7
106.2
52.7
0.0

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