

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: P949321

Luminaire Tested: **GALN-SB4A-835-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949321  
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-835-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

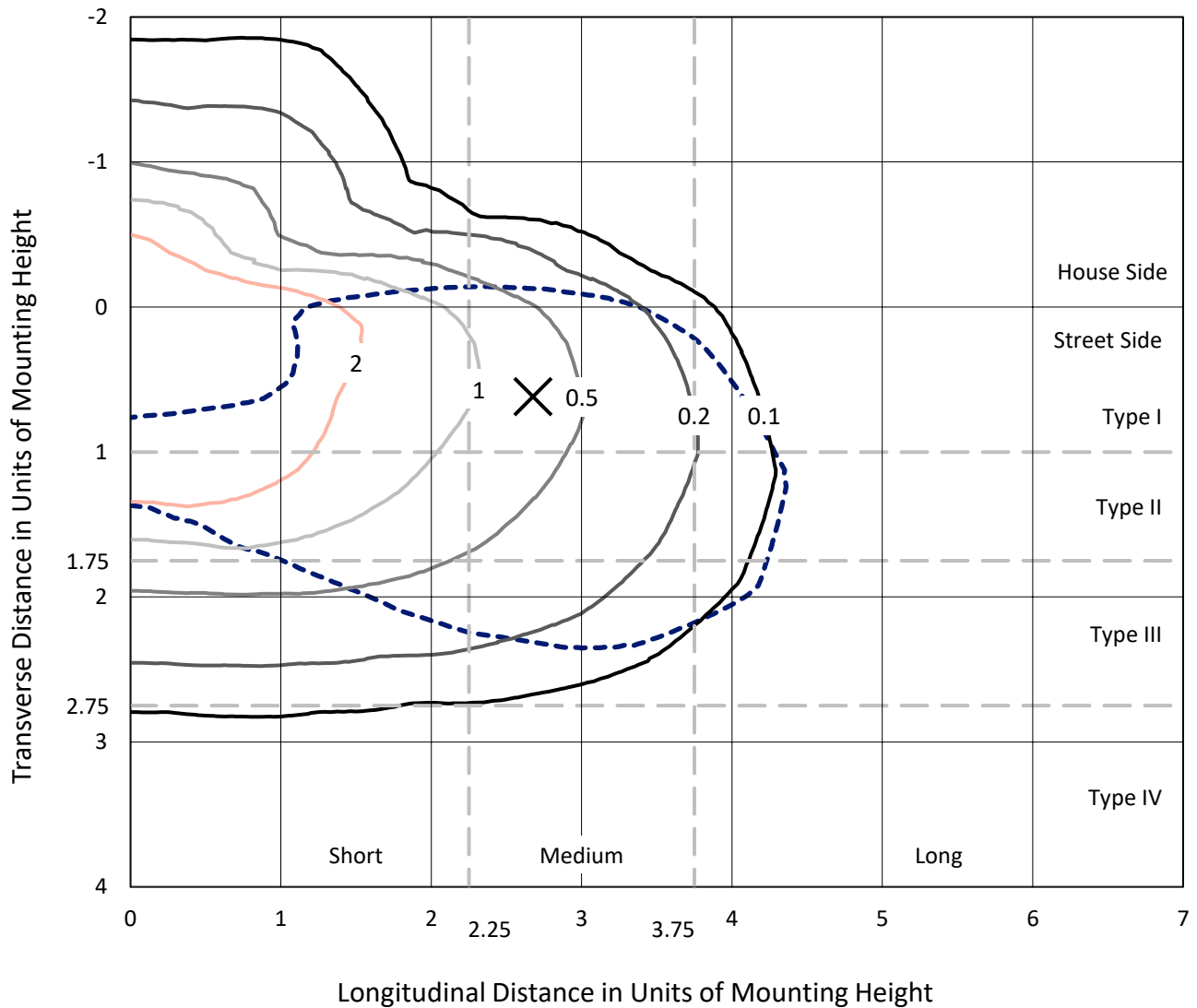
Lumens per Lamp: N/A  
Luminaire Lumens: 17119 lumens  
Efficiency: N/A  
Efficacy: 150.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

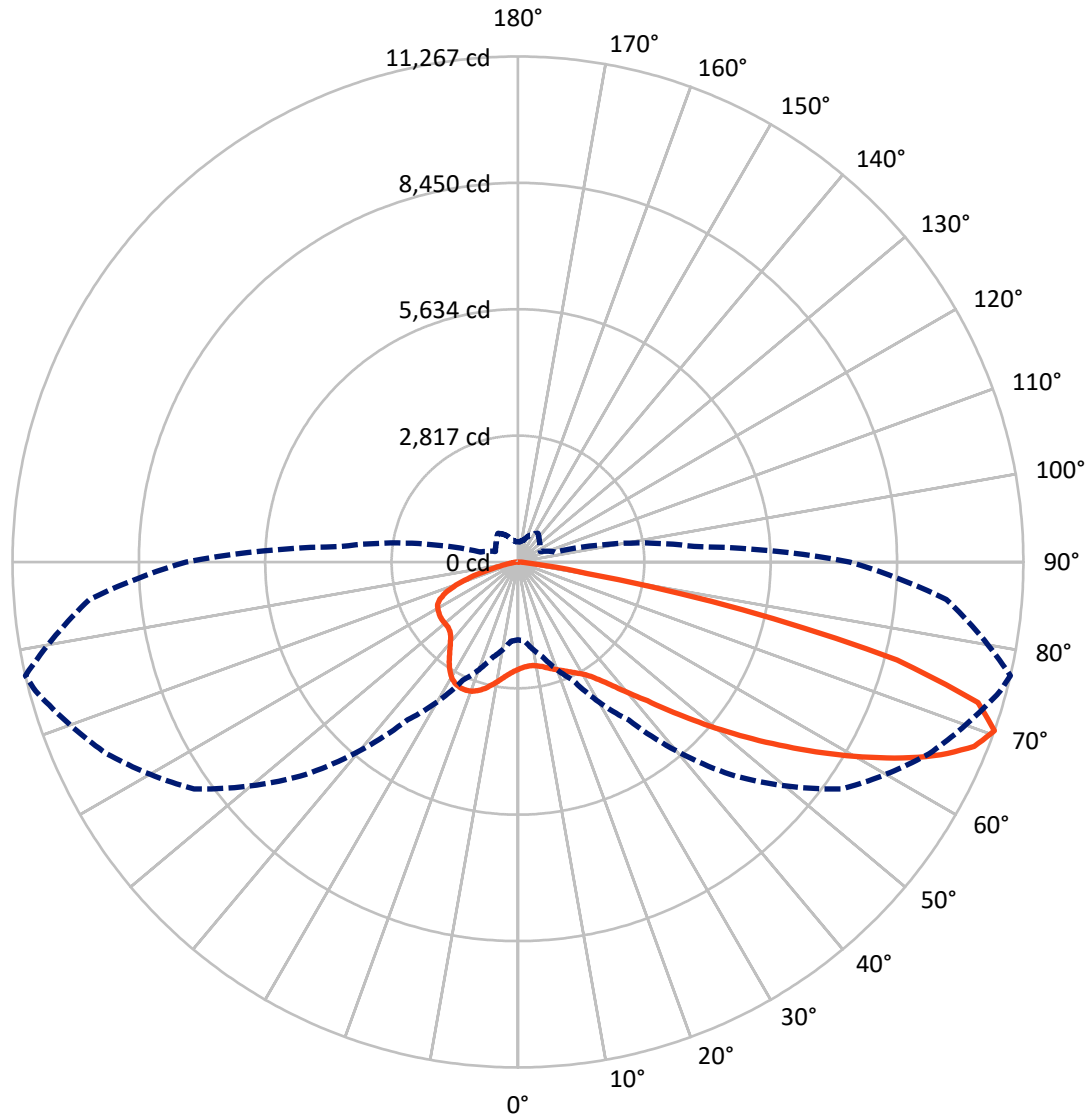
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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
<b>House Side</b>	Lumens	3748.8	0.0	3748.8
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	13370.2	0.0	13370.2
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	17119.0	0.0	17119.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.8	1.3
10°-20°	657.4	3.8
20°-30°	1124.2	6.6
30°-40°	1807.9	10.6
40°-50°	2822.5	16.5
50°-60°	3770.2	22.0
60°-70°	4018.5	23.5
70°-80°	2473.8	14.5
80°-90°	216.8	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°	17119.0	100.0
0°-180°	17119.0	100.0



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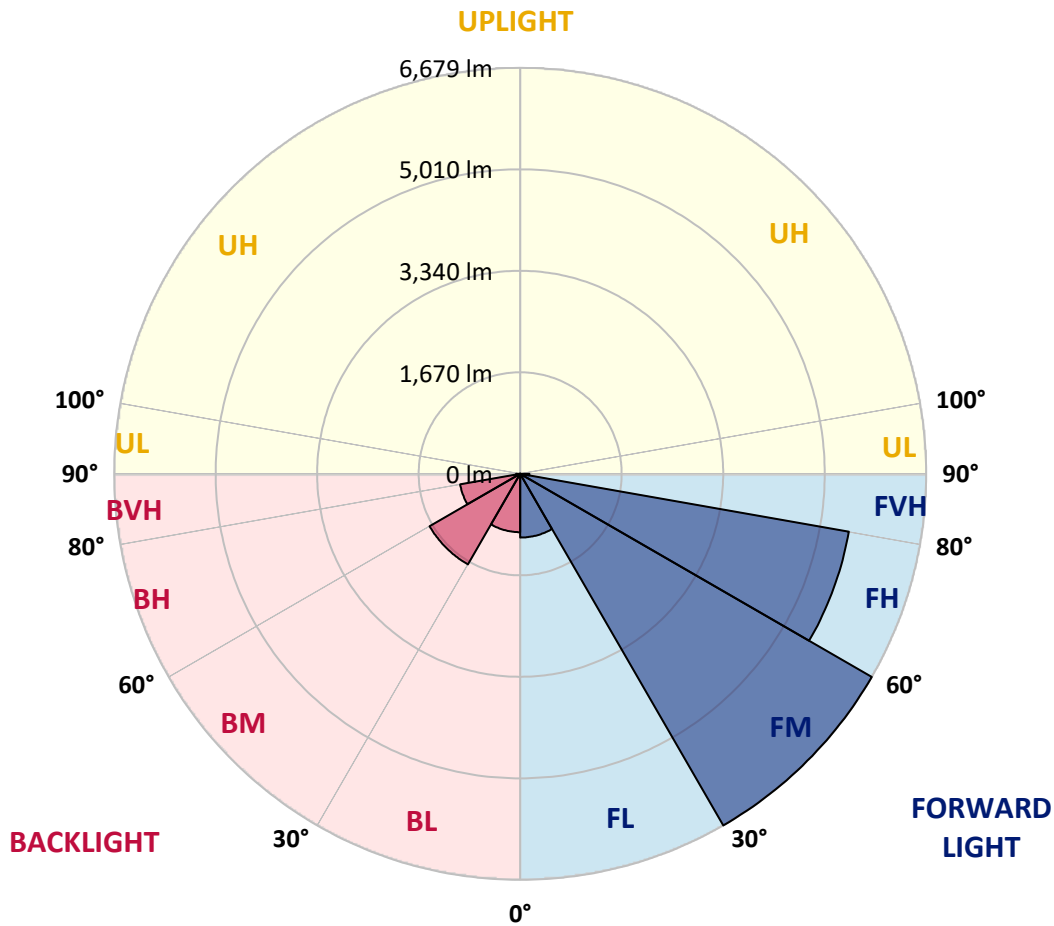
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1048.8	6.1			
FM (30°-60°)	6679.5	39.0			
FH (60°-80°)	5490.4	32.1			G3/7500
FVH (80°-90°)	151.6	0.9			G2/225
BL (0°-30°)	960.6	5.6	B2/1000		
BM (30°-60°)	1721.2	10.1	B2/2500		
BH (60°-80°)	1001.9	5.9	B3/2500		G3/2500
BVH (80°-90°)	65.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3
2.5°	2201.5	2200.6	2212.0	2215.5	2236.6	2251.5	2279.5	2309.3	2347.9	2352.3
5°	2074.4	2074.4	2087.5	2101.6	2128.7	2158.5	2201.5	2253.2	2319.9	2330.4
7.5°	1966.5	1973.6	1985.0	2012.1	2043.7	2086.7	2152.4	2226.1	2313.7	2330.4
10°	1879.7	1887.6	1901.7	1923.6	1970.9	2030.5	2116.5	2211.2	2328.6	2354.9
12.5°	1852.6	1860.5	1868.3	1885.0	1928.8	1999.0	2101.6	2218.2	2364.6	2390.9
15°	1915.7	1925.3	1919.2	1914.8	1937.6	2001.6	2108.6	2243.6	2409.3	2447.0
17.5°	2061.2	2064.7	2050.7	2009.5	2006.0	2040.2	2141.9	2278.7	2465.4	2506.6
20°	2296.2	2290.1	2261.1	2179.6	2133.1	2126.1	2198.9	2331.3	2523.3	2567.1
22.5°	2615.3	2608.3	2550.5	2421.6	2318.1	2249.7	2281.3	2399.7	2588.2	2637.3
25°	3013.4	3003.7	2918.7	2743.3	2582.9	2413.7	2393.5	2490.0	2667.9	2713.5
27.5°	3478.1	3470.2	3378.1	3146.6	2915.2	2638.1	2532.9	2596.0	2751.2	2803.0
30°	3977.8	4000.6	3837.5	3588.5	3295.7	2931.0	2720.5	2726.7	2859.1	2905.5
32.5°	4565.2	4604.7	4408.3	4092.7	3692.9	3249.2	2957.3	2909.0	3016.0	3054.6
35°	5147.4	5192.1	5029.0	4680.1	4219.8	3624.5	3204.5	3118.6	3224.7	3266.8
37.5°	5650.6	5710.2	5626.1	5322.7	4783.5	4076.9	3527.1	3365.0	3481.6	3534.2
40°	6047.8	6139.0	6132.8	5943.5	5448.1	4625.7	3936.6	3669.2	3800.7	3857.7
42.5°	6370.4	6449.3	6517.7	6508.1	6141.6	5249.1	4417.9	4064.6	4164.5	4230.3
45°	6593.1	6677.3	6824.6	6983.3	6808.8	5916.3	4969.4	4533.7	4624.8	4723.9
47.5°	6792.2	6887.7	7078.8	7330.5	7375.2	6586.1	5573.5	5079.9	5163.2	5265.7
50°	6809.7	6892.1	7188.4	7545.3	7777.6	7229.6	6222.3	5692.7	5770.7	5880.3
52.5°	6386.2	6516.0	7033.3	7539.1	7962.6	7768.0	6866.7	6330.1	6417.8	6549.3
55°	4957.1	5147.4	6578.2	7304.2	7896.9	8116.0	7479.5	7007.8	7120.1	7257.7
57.5°	4269.8	4353.0	5221.9	6876.3	7597.0	8206.3	7996.8	7692.6	7873.2	8024.0
60°	3837.5	3906.8	4420.6	6210.9	7202.5	8063.4	8396.6	8330.8	8643.0	8822.7
62.5°	3374.6	3440.4	3907.7	5186.0	6697.5	7825.8	8649.1	8920.0	9432.0	9628.4
65°	2915.2	2971.3	3419.3	4357.4	6055.7	7588.2	8779.7	9429.4	10162.4	10365.8
67.5°	2403.2	2449.6	2873.1	3676.2	5275.4	7263.0	8844.6	9830.1	10798.0	10972.5
70°	1734.2	1770.2	2207.6	2907.3	4296.1	6703.6	8818.3	10114.1	11127.7	11267.1
72.5°	819.8	852.2	1366.0	1887.6	3034.4	5614.7	8286.1	9888.8	10792.7	10723.5
75°	437.5	465.6	784.7	1035.4	1602.7	3848.9	6780.8	8518.5	9062.9	8726.3
77.5°	296.3	318.3	485.7	621.6	732.1	1827.1	4358.3	5897.9	5674.3	5118.4
80°	235.0	257.8	398.0	420.8	354.2	660.2	1800.8	2730.2	1961.3	1568.5
82.5°	180.6	206.0	334.9	305.1	192.9	270.9	524.3	863.6	502.4	382.3
85°	110.5	137.6	263.0	194.6	108.7	123.6	178.0	240.2	153.4	128.0
87.5°	56.1	78.9	133.3	71.0	49.1	28.9	47.3	47.3	40.3	35.1
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°
2388.3	0°	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3
2376.0	2.5°	2397.0	2414.6	2444.4	2472.4	2494.3	2515.4	2536.4	2547.8	2551.3	2565.4
2389.1	5°	2425.1	2457.5	2515.4	2569.7	2603.9	2625.0	2639.9	2648.7	2650.4	2654.8
2425.1	7.5°	2476.8	2528.5	2609.2	2663.6	2689.0	2687.2	2681.1	2659.2	2650.4	2642.5
2477.7	10°	2549.6	2618.0	2717.0	2754.7	2739.0	2696.9	2642.5	2578.5	2548.7	2519.8
2549.6	12.5°	2639.9	2726.7	2824.0	2822.2	2744.2	2636.4	2510.1	2411.9	2349.7	2305.0
2638.1	15°	2749.5	2849.4	2923.9	2864.3	2693.4	2499.6	2314.6	2186.6	2130.5	2081.4
2727.6	17.5°	2862.6	2969.5	3003.7	2851.2	2565.4	2297.1	2087.5	1986.7	1931.5	1905.2
2824.0	20°	2973.0	3079.1	3051.1	2775.8	2370.7	2067.4	1880.6	1825.4	1814.0	1820.1
2917.8	22.5°	3089.7	3184.3	3060.7	2630.2	2122.6	1832.4	1729.8	1731.6	1757.0	1775.4
3016.0	25°	3208.9	3272.9	3035.3	2419.8	1856.1	1659.7	1634.3	1662.3	1712.3	1748.2
3126.5	27.5°	3323.7	3351.8	2980.1	2159.4	1627.2	1536.1	1540.4	1598.3	1673.7	1723.7
3260.6	30°	3453.5	3421.9	2874.0	1866.6	1468.5	1430.0	1466.8	1534.3	1609.7	1654.4
3429.8	32.5°	3599.9	3482.4	2705.6	1595.7	1356.3	1344.9	1405.4	1449.3	1482.6	1495.7
3654.3	35°	3782.3	3567.5	2490.0	1405.4	1255.5	1282.7	1340.5	1318.6	1305.5	1298.5
3955.9	37.5°	4019.0	3682.3	2237.5	1281.8	1174.0	1238.0	1261.6	1193.3	1141.5	1116.1
4321.5	40°	4303.9	3850.7	1994.6	1186.2	1122.2	1199.4	1158.2	1075.8	1010.0	974.1
4732.7	42.5°	4620.5	4026.9	1790.3	1114.3	1093.3	1167.8	1081.9	983.7	877.6	866.2
5222.8	45°	4952.7	4208.4	1650.9	1059.1	1079.3	1140.6	1038.1	879.4	804.0	850.4
5714.6	47.5°	5285.0	4375.0	1566.7	1017.9	1072.3	1110.0	999.5	821.5	768.0	835.5
6241.6	50°	5655.0	4524.0	1529.0	988.1	1064.4	1097.7	941.6	806.6	730.3	775.0
6786.9	52.5°	6022.4	4639.7	1501.0	958.3	1053.0	1088.0	913.6	789.1	684.7	687.4
7335.7	55°	6388.8	4715.1	1470.3	918.8	1027.5	1067.0	910.9	769.8	650.5	638.3
7916.1	57.5°	6779.9	4758.1	1432.6	875.0	983.7	1013.5	908.3	754.9	640.0	619.9
8509.7	60°	7177.9	4821.2	1383.5	821.5	925.0	949.5	902.2	749.6	633.9	599.7
9069.1	62.5°	7534.8	4843.1	1324.8	770.7	849.6	886.4	889.0	745.2	617.2	558.5
9533.7	65°	7768.8	4748.5	1222.2	712.8	768.0	821.5	863.6	730.3	587.4	528.7
9763.4	67.5°	7759.2	4478.4	1061.7	638.3	689.1	749.6	826.8	704.9	551.5	491.9
9589.9	70°	7398.0	3945.4	858.3	551.5	602.3	672.5	779.4	667.2	508.5	451.5
8527.2	72.5°	6345.0	3087.9	623.4	449.8	501.5	592.7	718.1	621.6	464.7	415.6
6302.1	75°	4532.8	1954.3	422.6	345.4	390.2	502.4	641.8	568.1	424.3	417.3
3156.3	77.5°	2315.5	933.7	279.7	252.5	271.8	396.3	539.2	507.6	430.5	344.6
897.8	80°	753.1	344.6	176.2	171.8	180.6	263.9	417.3	416.5	326.1	234.1
217.4	82.5°	240.2	148.2	114.9	110.5	106.1	165.7	291.1	329.7	220.1	148.2
78.0	85°	95.6	88.6	67.5	62.2	44.7	78.0	152.6	219.2	164.0	107.0
20.2	87.5°	35.1	35.1	18.4	13.2	9.6	26.3	41.2	65.8	93.8	55.2
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>
2388.3
2573.3
2661.8
2644.3
2511.0
2294.4
2076.1
1913.1
1817.5
1779.8
1757.9
1736.0
1664.9
1502.7
1305.5
1122.2
976.7
877.6
875.0
867.1
808.4
705.8
647.0
622.5
602.3
558.5
528.7
494.5
456.8
412.9
393.7
306.9
206.9
147.3
109.6
54.4
0.0

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