

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: P949029

Luminaire Tested: **GALN-SB3D-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949029
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-SB3D-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18548 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

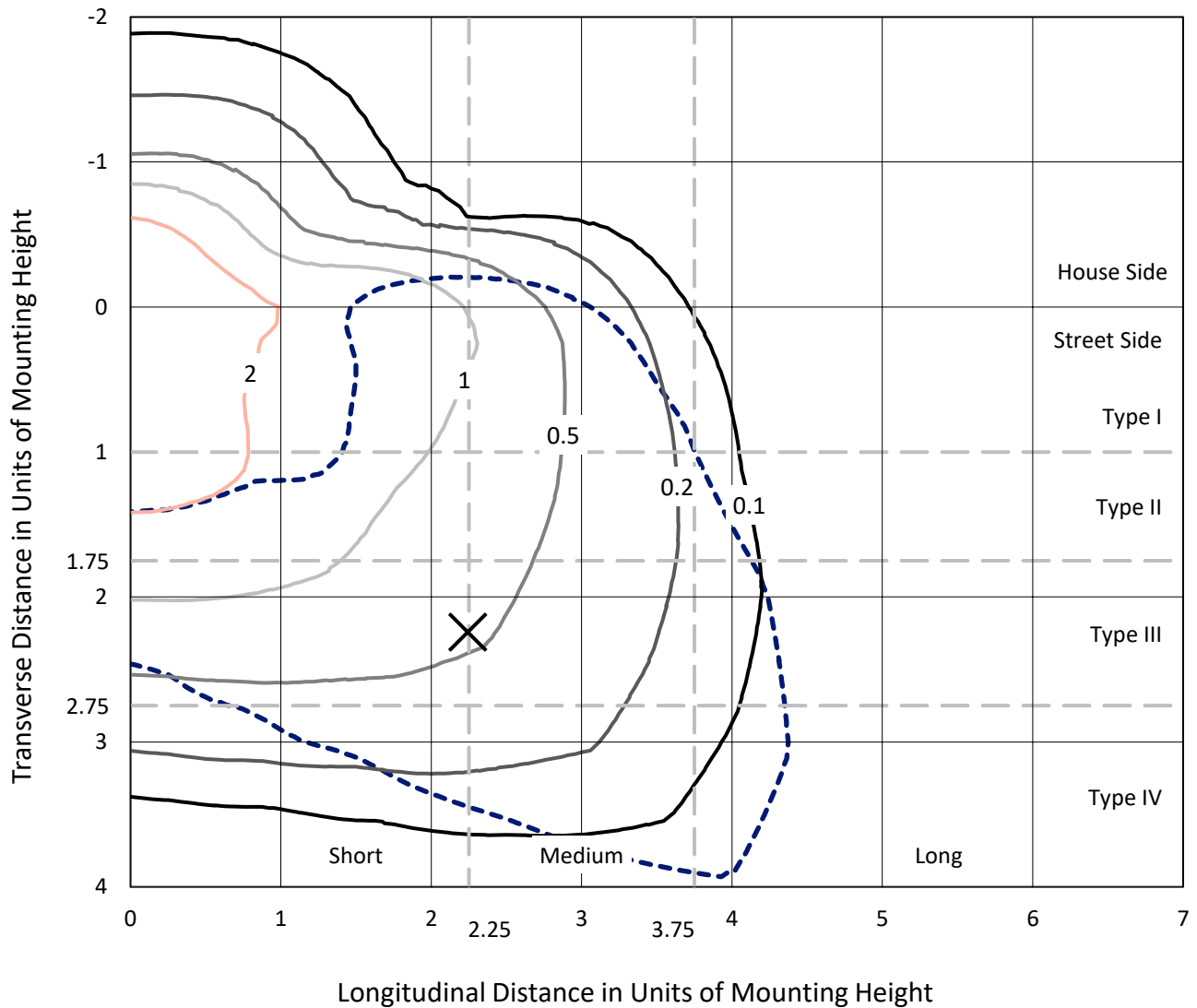
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

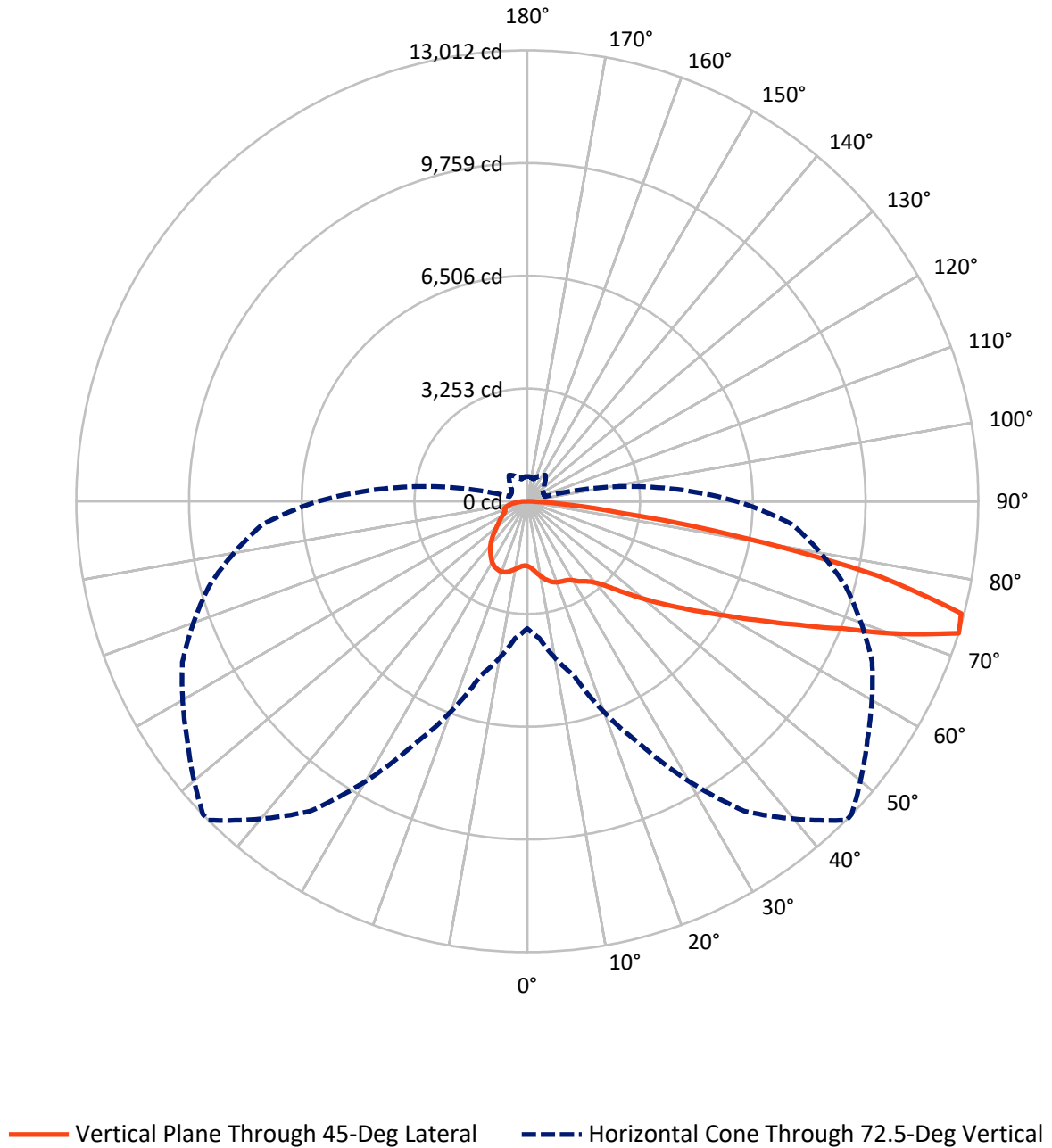
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4193.1	0.0	4193.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	14354.9	0.0	14354.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	18548.0	0.0	18548.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.4	1.0
10°-20°	635.0	3.4
20°-30°	1104.6	6.0
30°-40°	1583.4	8.5
40°-50°	2229.6	12.0
50°-60°	3415.1	18.4
60°-70°	4947.2	26.7
70°-80°	3950.7	21.3
80°-90°	492.0	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°	18548.0	100.0
0°-180°	18548.0	100.0



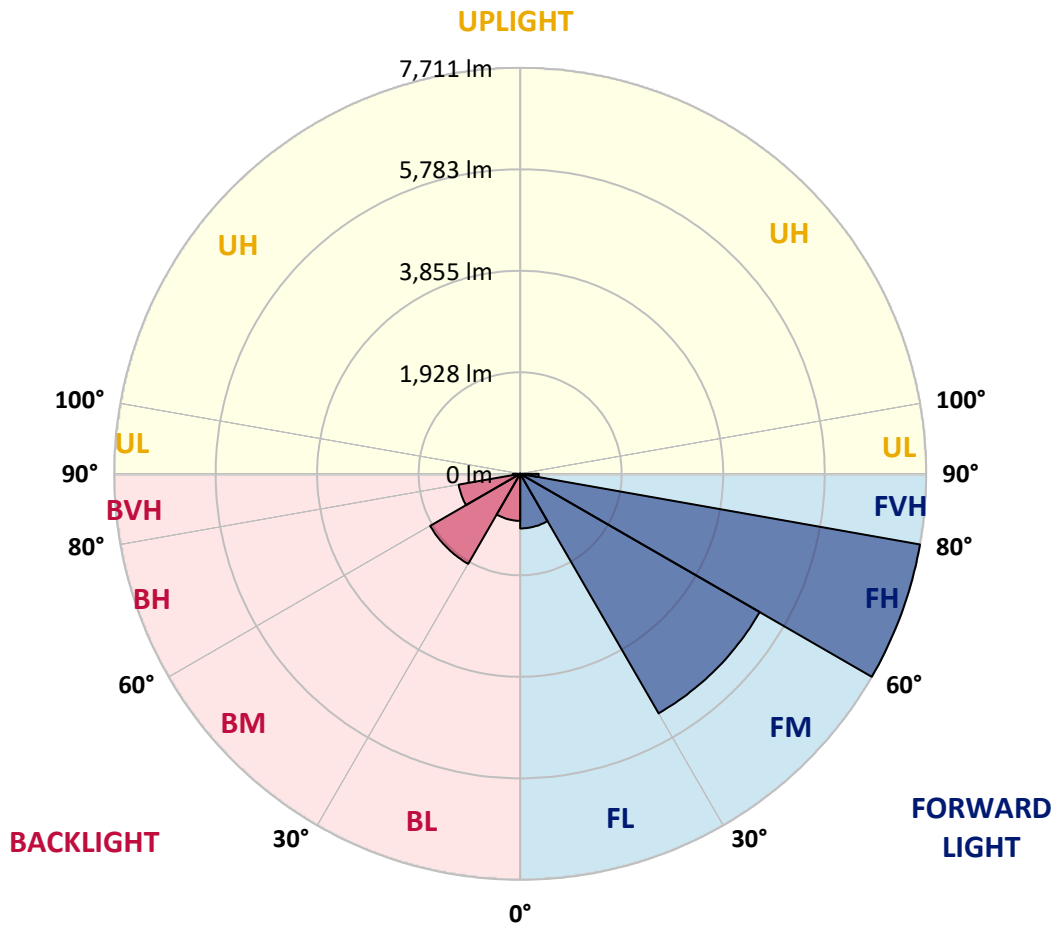
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1037.2	5.6			
FM (30°-60°)	5253.8	28.3			
FH (60°-80°)	7710.9	41.6			G4/12000
FVH (80°-90°)	353.0	1.9			G3/500
BL (0°-30°)	892.7	4.8	B2/1000		
BM (30°-60°)	1974.3	10.6	B2/2500		
BH (60°-80°)	1186.9	6.4	B3/2500		G3/2500
BVH (80°-90°)	139.0	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°	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1
2.5°	1944.4	1957.1	1945.4	1934.6	1929.8	1917.1	1916.1	1908.3	1903.4	1889.7
5°	2080.2	2096.8	2077.3	2055.8	2036.3	2005.0	2001.1	1978.6	1953.2	1923.9
7.5°	2233.6	2248.3	2225.8	2193.6	2159.4	2107.6	2106.6	2065.6	2025.5	1975.7
10°	2367.5	2387.0	2356.7	2312.8	2269.8	2211.2	2204.3	2157.4	2106.6	2042.1
12.5°	2485.7	2499.4	2470.1	2416.3	2366.5	2307.9	2299.1	2247.3	2190.6	2117.4
15°	2579.5	2597.1	2558.0	2500.4	2447.6	2390.0	2382.2	2335.3	2278.6	2201.4
17.5°	2641.1	2655.7	2615.7	2551.2	2500.4	2452.5	2446.6	2407.6	2357.7	2279.6
20°	2664.5	2680.2	2638.1	2572.7	2525.8	2488.7	2485.7	2457.4	2423.2	2351.9
22.5°	2688.0	2702.6	2647.9	2579.5	2538.5	2515.0	2514.1	2495.5	2481.8	2423.2
25°	2782.8	2786.7	2713.4	2614.7	2556.1	2535.6	2534.6	2533.6	2539.5	2493.5
27.5°	2864.8	2863.9	2801.3	2708.5	2617.6	2574.6	2573.7	2583.4	2602.0	2563.9
30°	2985.0	2974.3	2900.0	2803.3	2720.2	2653.8	2647.9	2639.1	2653.8	2623.5
32.5°	3240.0	3205.8	3085.7	2913.7	2805.2	2754.4	2746.6	2691.9	2697.8	2679.2
35°	3605.5	3560.5	3400.3	3122.8	2910.8	2838.5	2834.5	2765.2	2753.4	2736.8
37.5°	4040.3	3984.6	3798.0	3425.7	3092.5	2936.2	2930.3	2867.8	2819.9	2802.3
40°	4477.0	4406.7	4252.3	3795.0	3360.2	3099.3	3080.8	2986.0	2931.3	2902.0
42.5°	4901.1	4842.5	4710.6	4209.3	3690.5	3337.7	3296.7	3134.5	3093.5	3066.1
45°	5276.3	5223.5	5126.8	4651.9	4077.4	3662.1	3622.1	3357.3	3344.6	3344.6
47.5°	5581.2	5569.4	5466.8	5103.4	4533.7	4031.5	3962.1	3667.0	3701.2	3754.0
50°	5919.2	5887.0	5777.5	5547.9	5070.1	4454.6	4397.9	4047.1	4175.1	4319.7
52.5°	6229.9	6247.5	6125.4	6011.1	5675.9	4926.5	4826.8	4495.6	4772.1	5011.5
55°	6549.5	6550.4	6516.2	6500.6	6311.0	5448.3	5338.8	5035.0	5474.6	5771.7
57.5°	6849.4	6851.4	6902.2	7040.0	7047.8	6050.2	5926.1	5697.4	6255.3	6558.2
60°	7117.1	7130.8	7269.6	7592.0	7695.6	6740.0	6622.7	6480.1	7062.4	7367.3
62.5°	7207.0	7256.9	7565.6	8023.9	8335.6	7586.1	7470.8	7385.8	7910.5	8193.9
65°	7054.6	7168.9	7765.9	8380.5	8994.1	8591.6	8477.3	8384.4	8791.9	9058.6
67.5°	6680.4	6827.9	7754.2	8754.7	9793.4	9801.2	9694.7	9476.8	9736.7	9839.3
70°	5694.5	5915.3	7071.2	8894.5	10710.9	11455.4	11352.8	10792.0	10679.6	10183.3
72.5°	3669.0	3966.0	5206.9	7744.4	10915.1	13011.9	13006.1	11979.2	10977.6	9514.9
75°	1338.6	1520.4	2419.3	4861.0	9162.2	12932.8	12970.9	11775.9	10021.1	7349.7
77.5°	487.6	533.5	789.5	1868.2	5634.9	10376.7	10455.9	9414.3	7132.8	3688.5
80°	256.0	281.4	404.5	725.0	2414.4	6162.5	6286.6	5594.8	3352.4	1111.0
82.5°	141.7	153.4	226.7	393.8	1087.5	2635.2	2709.5	2210.2	1179.4	471.0
85°	76.2	81.1	106.5	215.0	531.5	913.6	934.1	660.5	470.0	276.5
87.5°	22.5	27.4	35.2	68.4	208.1	205.2	210.1	130.9	185.6	139.7
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°
1871.1	0°	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1
1885.8	2.5°	1879.9	1877.0	1866.2	1861.4	1855.5	1854.5	1859.4	1860.4	1861.4	1862.3
1907.3	5°	1897.5	1887.7	1878.0	1872.1	1874.1	1875.0	1884.8	1891.7	1896.5	1900.4
1947.3	7.5°	1931.7	1923.9	1907.3	1906.3	1909.2	1918.0	1930.7	1946.4	1955.2	1962.0
1999.1	10°	1982.5	1967.9	1948.3	1951.3	1957.1	1969.8	1996.2	2008.9	2023.6	2036.3
2062.6	12.5°	2034.3	2021.6	1999.1	2001.1	2010.9	2033.3	2058.7	2074.4	2084.1	2093.9
2131.0	15°	2101.7	2079.3	2054.8	2054.8	2072.4	2096.8	2108.6	2121.3	2127.1	2137.9
2204.3	17.5°	2171.1	2141.8	2109.5	2107.6	2129.1	2140.8	2147.6	2149.6	2151.6	2163.3
2275.6	20°	2240.5	2208.2	2162.3	2158.4	2163.3	2161.3	2160.4	2158.4	2161.3	2176.0
2348.9	22.5°	2308.9	2271.7	2208.2	2190.6	2177.0	2158.4	2157.4	2156.4	2158.4	2173.1
2428.1	25°	2389.0	2344.0	2259.0	2206.3	2160.4	2134.9	2137.9	2138.9	2140.8	2152.5
2510.2	27.5°	2476.0	2426.1	2305.9	2201.4	2118.3	2100.7	2095.9	2098.8	2105.6	2124.2
2592.2	30°	2562.9	2504.3	2348.9	2181.8	2065.6	2041.1	2025.5	2032.4	2053.8	2072.4
2663.6	32.5°	2642.1	2583.4	2383.1	2138.9	1998.2	1960.0	1939.5	1948.3	1969.8	1976.7
2742.7	35°	2734.9	2668.4	2397.8	2070.5	1924.9	1866.2	1838.9	1826.2	1836.9	1830.1
2835.5	37.5°	2838.5	2769.1	2395.8	1980.6	1838.9	1771.5	1733.4	1685.5	1663.0	1639.6
2972.3	40°	2991.9	2892.2	2372.4	1872.1	1732.4	1670.8	1602.4	1521.3	1470.5	1424.6
3193.1	42.5°	3201.0	3063.2	2329.4	1752.9	1612.2	1554.6	1461.7	1367.0	1286.8	1210.6
3528.3	45°	3512.6	3286.9	2275.6	1625.9	1482.2	1425.6	1324.9	1218.4	1127.6	1029.9
4004.1	47.5°	3962.1	3587.9	2224.8	1481.3	1345.5	1293.7	1202.8	1104.1	996.6	901.9
4692.0	50°	4579.6	4019.8	2177.9	1340.6	1210.6	1171.5	1099.2	998.6	890.1	813.9
5498.1	52.5°	5365.2	4607.0	2158.4	1204.8	1084.6	1069.9	1012.3	918.5	815.9	751.4
6438.1	55°	6267.1	5309.5	2158.4	1074.8	974.2	979.0	939.0	852.0	763.1	705.5
7407.3	57.5°	7187.5	6020.8	2119.3	954.6	880.4	900.9	875.5	799.3	719.1	659.5
8426.4	60°	8035.6	6616.9	1961.0	845.2	797.3	829.6	812.9	747.5	649.8	599.9
9278.5	62.5°	8687.3	6953.0	1656.2	758.2	728.9	766.0	757.2	679.1	637.1	616.5
9978.1	65°	9013.7	6898.3	1266.3	681.0	671.3	728.9	710.3	707.4	674.2	650.7
10205.7	67.5°	8813.4	6427.3	918.5	624.4	638.0	694.7	766.0	777.8	716.2	670.3
9564.8	70°	7935.0	5575.3	684.0	570.6	596.0	695.7	873.5	813.9	702.5	648.8
7671.2	72.5°	6036.5	4157.5	530.6	514.0	541.3	700.6	921.4	797.3	663.4	717.2
4779.0	75°	3452.1	2282.5	426.0	444.6	472.9	654.7	897.0	754.3	633.2	658.6
1893.6	77.5°	1316.1	877.4	351.8	376.2	380.1	571.6	857.9	751.4	602.9	588.2
567.7	80°	456.3	343.0	291.2	299.0	294.1	508.1	822.7	653.7	493.4	441.6
234.5	82.5°	186.6	171.0	230.6	220.8	209.1	394.7	664.4	534.5	403.5	356.6
113.3	85°	81.1	108.5	152.4	133.9	121.2	273.6	532.5	452.4	341.0	294.1
37.1	87.5°	16.6	41.0	64.5	60.6	62.5	182.7	378.1	321.5	241.3	180.8
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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180°
1871.1
1866.2
1902.4
1964.0
2033.3
2097.8
2141.8
2167.2
2181.8
2182.8
2168.2
2142.8
2092.9
2001.1
1851.6
1654.2
1427.5
1203.8
1018.1
891.1
809.0
746.5
699.6
649.8
592.1
609.7
642.9
662.5
640.0
711.3
658.6
536.4
427.0
352.7
293.1
141.7
0.0

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