

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: P940009

Luminaire Tested: **GALN-SB2D-840-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-840-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19239 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

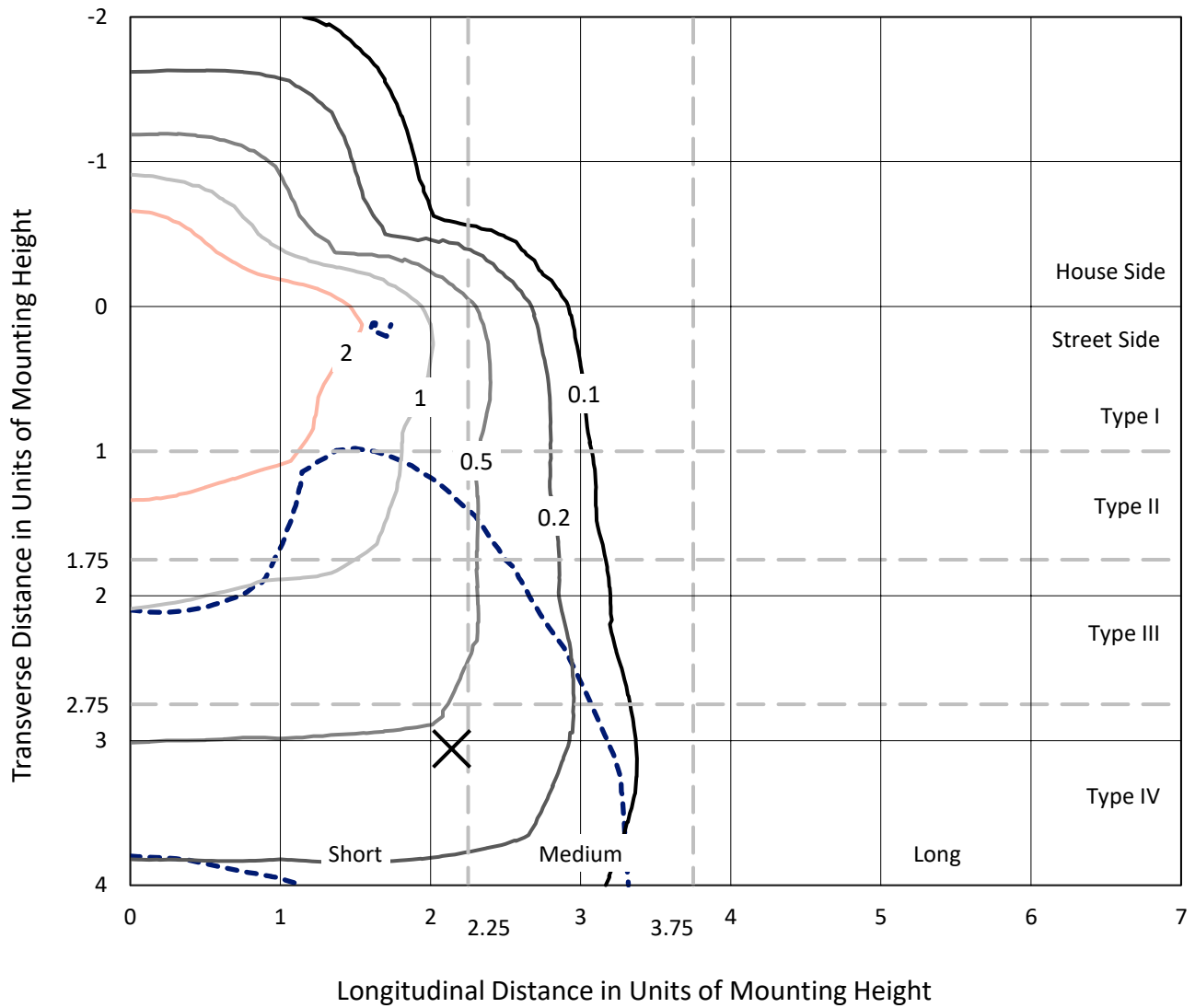
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

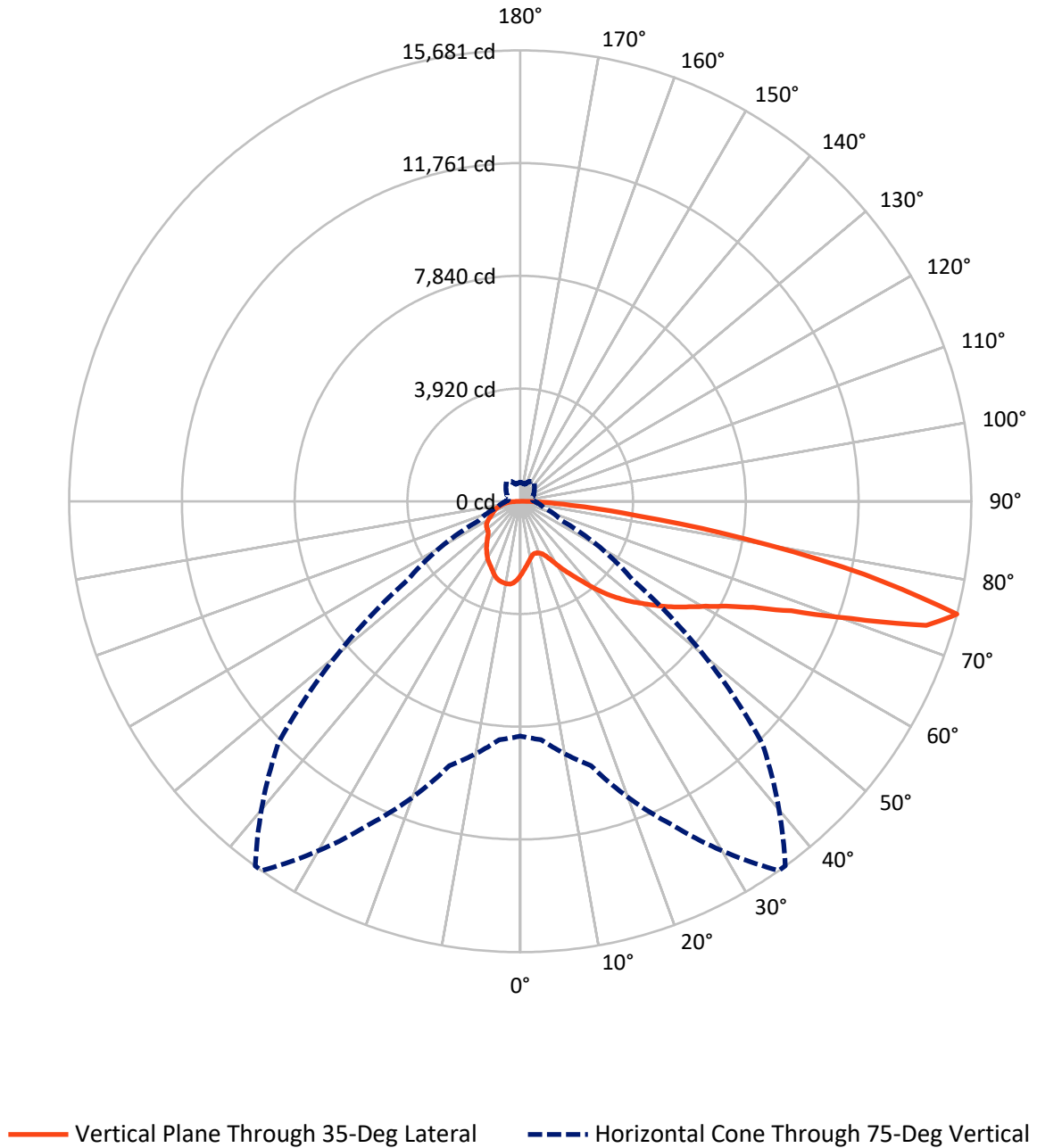
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4578.4	0.0	4578.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	14660.6	0.0	14660.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	19239.0	0.0	19239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	1.3
10°-20°	700.2	3.6
20°-30°	1175.7	6.1
30°-40°	1827.3	9.5
40°-50°	2712.1	14.1
50°-60°	3744.3	19.5
60°-70°	4542.6	23.6
70°-80°	3754.1	19.5
80°-90°	540.0	2.8
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°	19239.0	100.0
0°-180°	19239.0	100.0

Coefficient of Utilization



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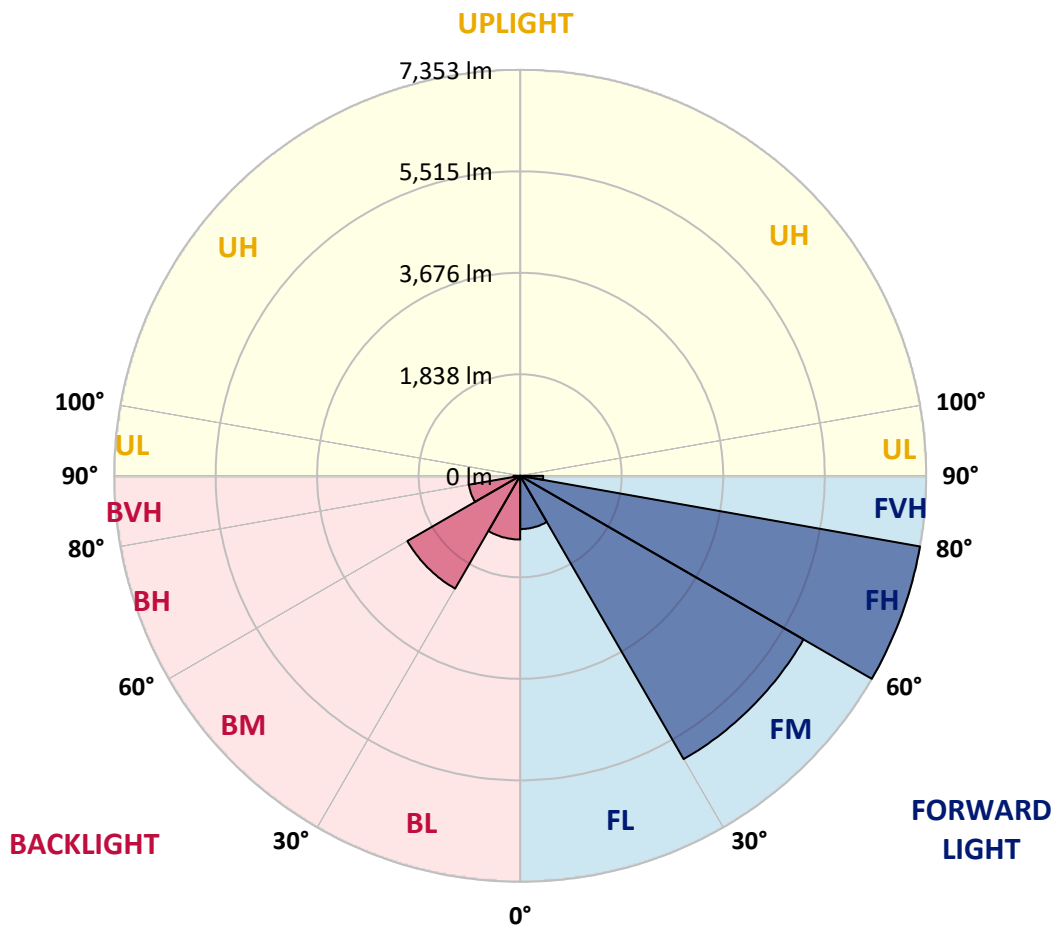
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	964.8	5.0			
FM (30°-60°)	5924.6	30.8			
FH (60°-80°)	7352.9	38.2			G3/7500
FVH (80°-90°)	418.4	2.2			G3/500
BL (0°-30°)	1153.8	6.0	B3/2500		
BM (30°-60°)	2359.1	12.3	B2/2500		
BH (60°-80°)	943.9	4.9	B2/1000		G2/1000
BVH (80°-90°)	121.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2563.7	2563.7	2563.7	2563.7	2563.7	2563.7	2563.7	2563.7	2563.7	2563.7
2.5°	2364.0	2378.6	2384.8	2381.7	2397.3	2395.2	2417.1	2444.1	2481.6	2518.0
5°	2182.0	2197.6	2211.1	2223.6	2253.8	2263.2	2297.5	2349.5	2418.1	2487.8
7.5°	2012.5	2026.0	2046.8	2069.7	2120.7	2130.0	2187.2	2268.4	2364.0	2466.0
10°	1874.2	1887.7	1909.5	1935.5	1999.0	2010.4	2083.2	2191.4	2316.2	2445.2
12.5°	1814.9	1819.1	1831.5	1857.5	1912.7	1919.9	2000.0	2123.8	2269.4	2429.6
15°	1811.8	1820.1	1821.1	1834.7	1880.4	1883.5	1957.4	2080.1	2240.3	2426.4
17.5°	1843.0	1849.2	1839.9	1848.2	1886.7	1891.9	1950.1	2059.3	2230.9	2440.0
20°	1926.2	1931.4	1903.3	1891.9	1919.9	1924.1	1981.3	2072.8	2240.3	2468.0
22.5°	2103.0	2106.1	2037.5	1990.7	1992.7	1994.8	2044.7	2127.9	2276.7	2519.0
25°	2378.6	2376.5	2267.3	2176.8	2124.8	2113.4	2146.7	2217.4	2338.0	2586.6
27.5°	2701.0	2685.4	2576.2	2441.0	2327.6	2311.0	2303.7	2333.9	2425.4	2676.1
30°	3065.0	3050.5	2932.9	2756.1	2599.1	2572.0	2503.4	2487.8	2555.4	2797.7
32.5°	3464.4	3455.1	3314.6	3100.4	2890.3	2859.1	2743.7	2702.1	2755.1	2981.8
35°	3799.3	3791.0	3674.5	3454.0	3197.1	3158.6	3041.1	2994.3	3021.3	3217.9
37.5°	4102.0	4097.8	3998.0	3824.3	3559.1	3512.3	3380.2	3364.6	3359.4	3528.9
40°	4382.8	4372.4	4268.4	4176.8	3980.3	3937.6	3821.1	3807.6	3768.1	3911.6
42.5°	4693.8	4666.7	4515.9	4473.3	4420.2	4384.9	4315.2	4317.3	4229.9	4343.3
45°	4947.5	4931.9	4777.0	4752.0	4809.2	4794.6	4855.0	4870.6	4701.0	4795.7
47.5°	5220.0	5205.5	5074.4	5056.7	5211.7	5215.9	5429.1	5434.3	5160.7	5265.8
50°	5556.0	5535.2	5405.1	5427.0	5600.7	5616.3	6006.3	5970.9	5584.0	5743.2
52.5°	5777.5	5790.0	5761.9	5797.2	6034.4	6048.9	6574.2	6483.7	6003.2	6214.3
55°	5940.8	5965.7	6053.1	6134.2	6492.0	6506.6	7109.8	6971.5	6350.6	6651.1
57.5°	6150.9	6115.5	6278.8	6436.9	6926.7	6965.2	7630.9	7441.6	6658.4	7027.6
60°	6452.5	6427.5	6554.4	6788.4	7413.5	7474.8	8182.1	7864.9	6884.1	7326.1
62.5°	7064.0	7001.6	7021.4	7228.4	8027.1	8108.2	8804.0	8234.1	6996.4	7442.6
65°	7978.2	7871.1	7771.3	7914.8	8891.4	8971.5	9506.1	8524.3	6954.8	7216.9
67.5°	9129.6	9023.5	8900.8	9036.0	10164.4	10227.9	10372.4	8687.6	6627.2	6347.4
70°	10079.1	10039.6	10186.3	10742.7	12197.7	12199.8	11483.2	8552.3	5729.6	4500.3
72.5°	9953.3	9929.4	10702.1	12422.4	14760.4	14705.3	12534.7	7528.9	3859.6	2030.2
75°	8165.4	8320.4	9517.5	12392.2	15680.9	15673.6	11890.9	4786.3	1596.5	841.4
77.5°	4378.6	4624.1	6178.9	9149.3	12241.4	12425.5	8359.9	1674.5	685.4	538.7
80°	1428.0	1642.2	2462.8	4658.4	7954.3	7920.0	3583.0	657.3	469.1	381.7
82.5°	606.4	631.3	1100.4	2199.7	4082.2	4018.8	1140.9	377.5	329.7	261.1
85°	237.1	265.2	485.7	1017.2	1768.1	1729.6	411.9	187.2	211.1	170.6
87.5°	78.0	94.6	173.7	348.4	550.2	530.4	100.9	64.5	91.5	78.0
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°
2563.7	0°	2563.7	2563.7	2563.7	2563.7	2563.7	2563.7	2563.7	2563.7	2563.7	2563.7
2571.0	2.5°	2585.6	2602.2	2622.0	2651.1	2676.1	2696.9	2718.7	2732.2	2737.4	2753.0
2575.2	5°	2604.3	2640.7	2689.6	2737.4	2784.2	2812.3	2837.3	2849.7	2861.2	2869.5
2586.6	7.5°	2635.5	2682.3	2759.3	2821.7	2861.2	2884.1	2900.7	2896.5	2900.7	2902.8
2599.1	10°	2662.5	2728.1	2819.6	2878.9	2909.0	2910.1	2905.9	2891.3	2884.1	2885.1
2617.8	12.5°	2694.8	2767.6	2866.4	2916.3	2924.6	2901.7	2884.1	2859.1	2849.7	2845.6
2645.9	15°	2738.5	2821.7	2917.3	2936.1	2915.3	2886.1	2856.0	2815.4	2794.6	2778.0
2693.7	17.5°	2791.5	2883.0	2956.9	2943.3	2898.6	2850.8	2801.9	2740.5	2697.9	2680.2
2759.3	20°	2865.3	2947.5	2987.0	2927.7	2860.1	2787.3	2704.1	2629.3	2589.7	2572.0
2842.5	22.5°	2954.8	3033.8	3016.1	2900.7	2805.0	2688.5	2584.5	2529.4	2509.6	2497.2
2949.6	25°	3061.9	3129.5	3037.0	2861.2	2714.5	2557.5	2477.4	2459.7	2450.4	2441.0
3080.6	27.5°	3201.3	3237.7	3052.6	2802.9	2573.1	2418.1	2389.0	2392.1	2389.0	2373.4
3262.6	30°	3385.4	3378.1	3067.1	2708.3	2410.8	2292.3	2294.4	2307.9	2310.0	2299.6
3516.4	32.5°	3627.7	3553.9	3074.4	2585.6	2255.9	2182.0	2184.1	2198.7	2209.1	2191.4
3848.2	35°	3921.0	3758.7	3063.0	2431.6	2136.3	2077.0	2061.4	2065.5	2068.7	2052.0
4250.7	37.5°	4263.2	3988.6	3012.0	2261.1	2037.5	1974.0	1940.7	1912.7	1896.0	1880.4
4706.2	40°	4638.6	4239.2	2918.4	2094.7	1927.2	1864.8	1814.9	1761.8	1705.7	1684.9
5188.8	42.5°	5031.8	4497.2	2805.0	1935.5	1800.3	1749.4	1696.3	1619.4	1535.1	1492.5
5690.1	45°	5439.5	4761.4	2693.7	1778.5	1670.3	1648.5	1587.1	1494.6	1403.0	1348.9
6192.5	47.5°	5838.8	5011.0	2530.4	1620.4	1548.6	1572.6	1524.7	1439.4	1337.5	1252.2
6690.7	50°	6220.5	5245.0	2263.2	1460.2	1449.8	1549.7	1503.9	1381.2	1264.7	1155.5
7179.5	52.5°	6599.1	5434.3	1921.0	1314.6	1396.8	1543.4	1476.9	1341.7	1199.2	1084.8
7639.2	55°	6920.5	5532.0	1591.3	1189.8	1319.8	1490.4	1444.6	1294.9	1106.6	984.9
7954.3	57.5°	7103.6	5453.0	1316.7	1067.1	1213.7	1403.0	1389.5	1195.0	996.4	902.8
8015.7	60°	7024.5	5132.7	1092.1	960.0	1112.9	1308.4	1293.8	1096.2	912.1	823.7
7687.0	62.5°	6588.7	4522.1	914.2	866.4	1021.3	1211.7	1198.1	1020.3	847.6	762.4
6814.4	65°	5710.9	3678.7	775.9	788.4	928.8	1095.2	1114.9	956.8	796.7	713.5
5272.0	67.5°	4355.7	2664.6	667.7	720.8	838.3	980.8	1038.0	911.1	754.0	675.0
3050.5	70°	2482.6	1513.3	576.2	655.2	758.2	874.7	978.7	874.7	708.3	642.8
1143.0	72.5°	941.2	694.8	498.2	589.7	681.2	785.2	913.2	817.5	655.2	606.4
590.7	75°	502.3	423.3	419.1	512.7	592.8	697.9	831.0	761.3	615.7	640.7
408.7	77.5°	342.2	299.5	350.5	438.9	496.1	601.1	743.6	676.0	533.5	531.5
282.9	80°	237.1	212.2	285.0	353.6	383.8	505.5	649.0	580.3	434.7	405.6
174.7	82.5°	142.5	138.3	213.2	264.2	271.5	390.0	537.7	486.7	355.7	309.9
104.0	85°	78.0	82.2	136.2	155.0	158.1	272.5	421.2	376.5	273.5	229.9
37.4	87.5°	21.8	28.1	49.9	61.4	75.9	141.4	250.7	223.6	137.3	95.7
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>
2563.7
2752.0
2871.6
2905.9
2887.2
2843.5
2783.2
2681.3
2570.0
2499.2
2441.0
2376.5
2304.8
2199.7
2063.5
1890.8
1694.2
1497.7
1344.8
1242.9
1146.1
1072.3
974.5
890.3
811.2
748.8
700.0
662.5
634.4
598.0
661.5
489.9
387.9
312.0
231.9
95.7
0.0

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