

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: P939972

Luminaire Tested: **GALN-SB2D-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2D-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17541 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

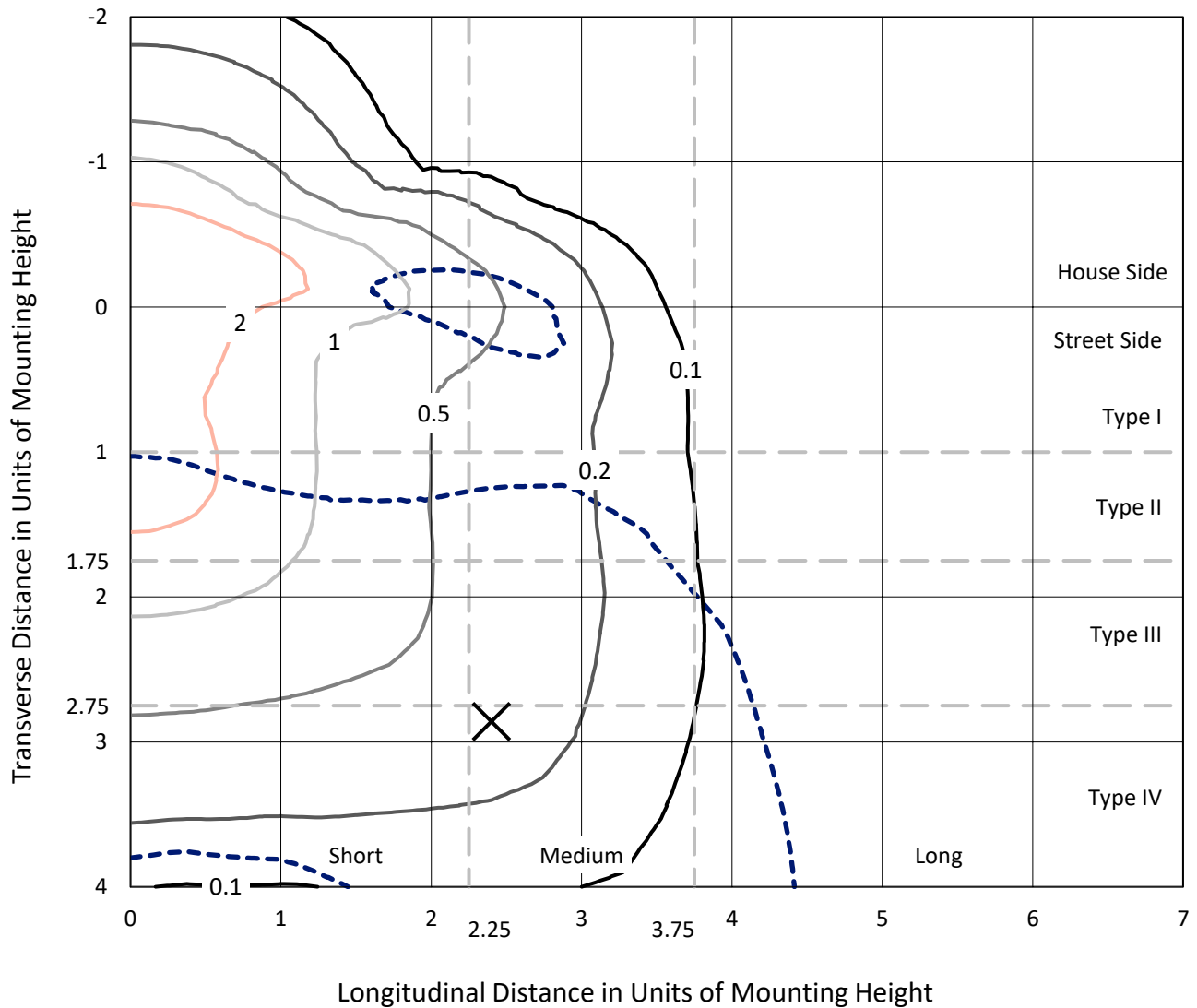
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939972
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Iso-Footcandle Lines of Horizontal Illumination

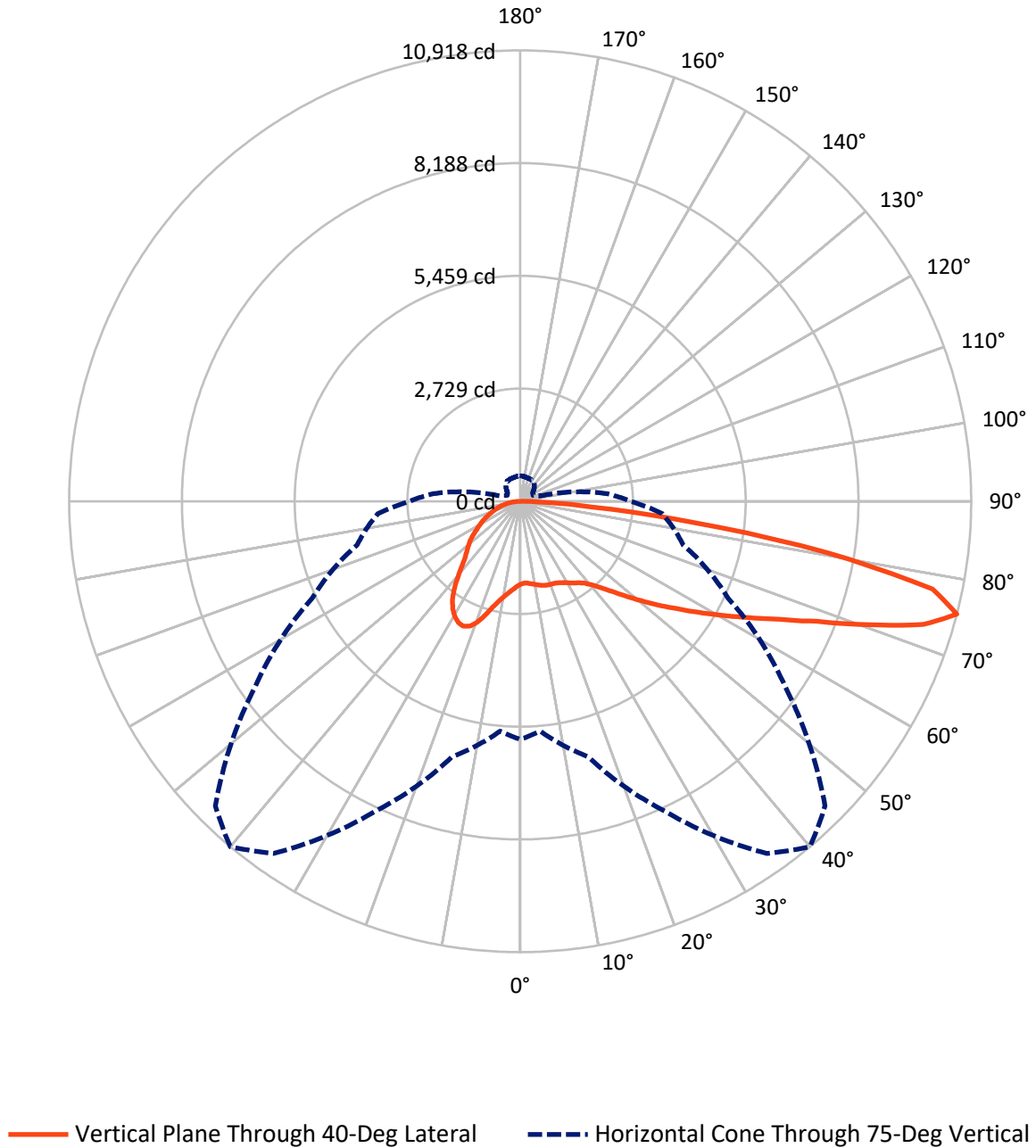
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P939972
CATALOG NUMBER: GALN-SB2D-827-U-SL4

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5434.8	0.0	5434.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	12106.2	0.0	12106.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	17541.0	0.0	17541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.2	1.1
10°-20°	672.2	3.8
20°-30°	1227.4	7.0
30°-40°	1740.9	9.9
40°-50°	2350.7	13.4
50°-60°	3162.3	18.0
60°-70°	4013.7	22.9
70°-80°	3642.7	20.8
80°-90°	531.0	3.0
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°	17541.0	100.0
0°-180°	17541.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939972

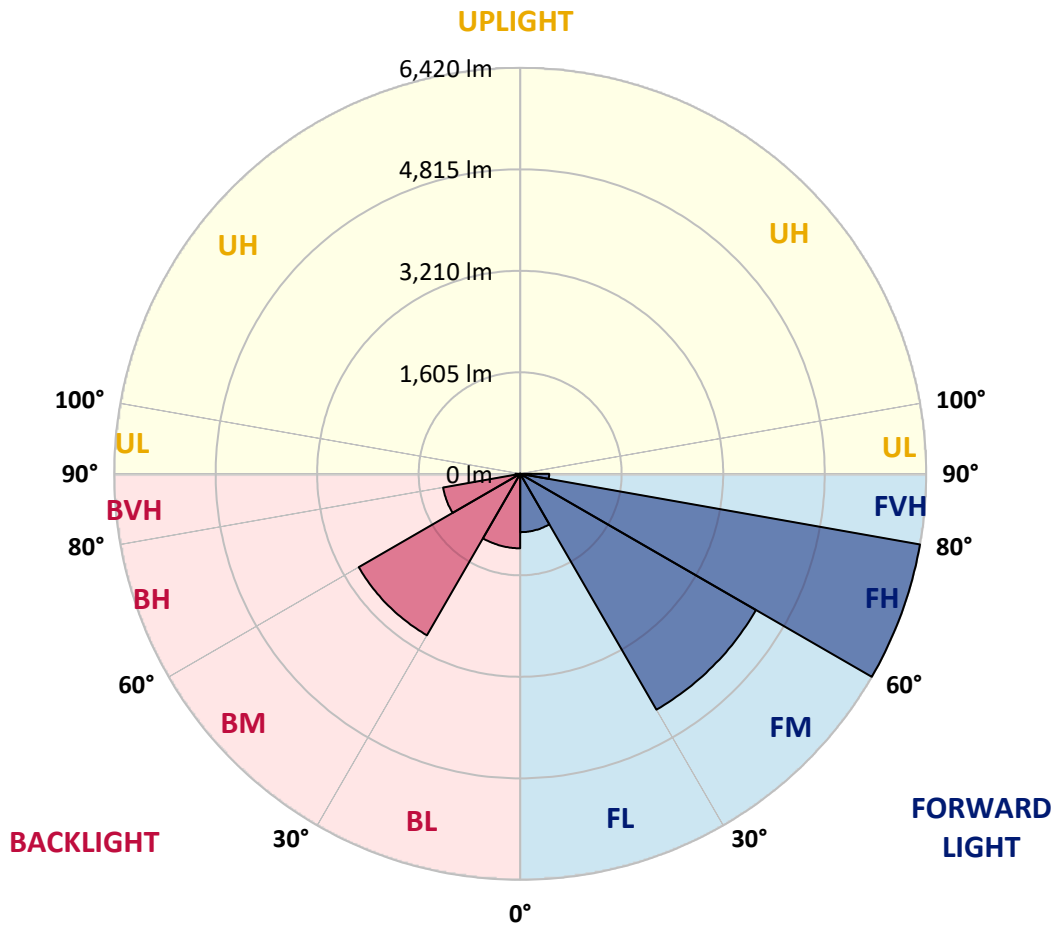
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	922.7	5.3			
FM (30°-60°)	4305.9	24.5			
FH (60°-80°)	6419.7	36.6			G3/7500
FVH (80°-90°)	457.9	2.6			G3/500
BL (0°-30°)	1177.2	6.7	B3/2500		
BM (30°-60°)	2947.9	16.8	B3/5000		
BH (60°-80°)	1236.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	73.1	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 IV Medium



REPORT NUMBER: P939972
 CATALOG NUMBER: GALN-SB2D-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8
2.5°	1975.1	1986.3	1983.5	1979.8	1979.8	1980.7	1979.8	1986.3	1992.8	1999.3
5°	1995.6	2006.8	2001.2	1996.5	1992.8	1991.9	1989.1	1988.2	1991.9	2000.3
7.5°	2035.6	2046.8	2038.4	2030.0	2022.6	2018.9	2015.1	2009.6	2006.8	2011.4
10°	2080.3	2091.4	2081.2	2066.3	2054.2	2049.6	2045.8	2040.3	2036.5	2039.3
12.5°	2124.9	2136.1	2122.1	2101.7	2085.8	2083.1	2078.4	2076.5	2075.6	2074.7
15°	2166.8	2176.1	2158.4	2134.2	2117.5	2112.8	2108.2	2111.0	2115.6	2121.2
17.5°	2199.3	2208.7	2182.6	2151.0	2135.2	2133.3	2130.5	2139.8	2152.8	2166.8
20°	2229.1	2238.4	2204.9	2162.1	2143.5	2143.5	2144.5	2164.0	2182.6	2203.1
22.5°	2271.0	2278.4	2237.5	2178.9	2151.9	2153.8	2161.2	2180.7	2204.0	2231.9
25°	2333.3	2338.9	2288.7	2210.5	2179.8	2185.4	2191.9	2201.2	2223.5	2256.1
27.5°	2433.8	2438.4	2372.4	2266.3	2219.8	2229.1	2238.4	2231.9	2242.1	2270.1
30°	2575.2	2578.0	2494.3	2353.8	2287.7	2292.4	2294.2	2267.3	2247.7	2270.1
32.5°	2742.7	2741.7	2642.2	2459.8	2365.0	2360.3	2344.5	2291.5	2245.9	2265.4
35°	3002.2	2992.0	2863.6	2608.7	2452.4	2423.6	2386.4	2318.4	2255.2	2260.8
37.5°	3432.1	3400.4	3222.7	2852.5	2582.7	2509.2	2454.3	2362.2	2275.6	2258.9
40°	3916.8	3876.8	3681.4	3186.5	2778.0	2659.9	2571.5	2424.5	2309.1	2267.3
42.5°	4491.7	4435.0	4224.7	3580.0	3025.5	2854.3	2721.3	2503.6	2358.4	2294.2
45°	5197.9	5122.5	4824.8	4023.8	3337.2	3109.2	2931.5	2623.6	2433.8	2346.3
47.5°	5911.5	5930.1	5506.7	4531.7	3711.2	3423.7	3194.8	2804.1	2543.6	2430.1
50°	6669.7	6682.7	6185.0	5094.6	4135.4	3779.1	3490.7	3006.0	2696.2	2549.2
52.5°	7261.4	7263.3	6800.9	5683.5	4577.3	4169.8	3809.8	3236.7	2872.9	2707.3
55°	7631.7	7627.0	7232.5	6240.8	5085.3	4580.1	4163.3	3499.1	3088.8	2893.4
57.5°	7900.5	7886.6	7530.3	6719.9	5626.8	5064.8	4563.4	3796.8	3343.7	3114.8
60°	8002.9	7994.5	7732.1	7133.9	6196.1	5600.7	5024.8	4129.8	3633.0	3376.2
62.5°	8042.0	8057.8	7930.3	7534.9	6805.5	6194.3	5531.9	4528.0	3958.6	3672.1
65°	8179.6	8208.5	8182.4	8059.6	7494.0	6889.2	6204.5	5001.6	4314.0	3989.3
67.5°	8452.2	8481.1	8492.2	8687.6	8335.0	7755.4	7043.7	5591.4	4729.9	4318.7
70°	8445.7	8437.4	8634.6	9187.2	9388.2	8954.6	8175.0	6317.1	5225.8	4592.2
72.5°	7687.5	7620.5	8086.6	9181.6	10264.6	10206.9	9556.6	7253.0	5653.7	4625.7
75°	5767.2	5588.6	6412.0	8274.5	10410.6	10917.7	10434.8	7833.6	5552.3	4087.0
77.5°	2466.4	2286.8	3257.2	6125.4	9317.5	10206.0	9629.1	6834.4	4432.2	2702.7
80°	645.7	644.7	984.3	2777.1	6336.6	7536.8	6612.0	4413.6	2532.4	965.7
82.5°	267.0	260.5	361.9	1080.1	3096.2	4229.4	3451.6	1968.6	914.5	261.4
85°	99.5	98.6	175.8	373.1	1092.2	1744.4	1262.5	503.3	227.9	127.5
87.5°	27.9	27.0	38.1	129.3	266.1	403.8	215.8	82.8	64.2	50.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939972
 CATALOG NUMBER: GALN-SB2D-827-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2005.8	0°	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8
2009.6	2.5°	2012.3	2017.0	2025.4	2031.9	2040.3	2049.6	2062.6	2071.0	2079.3	2084.9
2014.2	5°	2020.7	2031.0	2052.4	2073.8	2098.9	2122.1	2149.1	2168.6	2184.5	2189.1
2031.0	7.5°	2039.3	2056.1	2092.4	2128.6	2168.6	2206.8	2245.9	2279.4	2306.3	2316.6
2060.7	10°	2071.9	2094.2	2145.4	2196.6	2249.6	2308.2	2358.4	2406.8	2445.0	2460.8
2096.1	12.5°	2112.8	2140.7	2207.7	2278.4	2351.9	2432.9	2498.0	2557.5	2605.0	2626.4
2145.4	15°	2165.9	2202.1	2287.7	2382.6	2490.5	2603.1	2685.9	2752.0	2805.0	2831.1
2196.6	17.5°	2223.5	2271.9	2379.8	2523.1	2677.6	2825.5	2922.2	2970.6	3025.5	3050.6
2244.0	20°	2279.4	2338.9	2493.3	2701.7	2907.3	3064.6	3142.7	3155.8	3159.5	3162.3
2288.7	22.5°	2337.0	2417.1	2635.7	2926.9	3147.4	3256.2	3267.4	3211.6	3133.4	3097.1
2332.4	25°	2400.3	2506.4	2821.8	3175.3	3353.9	3366.9	3281.3	3145.5	2997.6	2929.7
2367.7	27.5°	2461.7	2609.6	3045.0	3412.5	3502.8	3388.3	3204.1	3011.5	2832.9	2761.3
2392.9	30°	2523.1	2727.8	3291.6	3620.0	3570.7	3335.3	3082.3	2867.3	2687.8	2612.4
2415.2	32.5°	2585.4	2865.5	3575.3	3769.8	3558.6	3222.7	2930.6	2705.5	2547.3	2468.2
2434.7	35°	2656.2	3034.8	3844.2	3851.7	3477.7	3057.1	2730.6	2511.9	2374.3	2311.0
2458.0	37.5°	2748.3	3249.7	4081.4	3872.1	3336.2	2814.3	2482.2	2283.1	2169.6	2140.7
2492.4	40°	2862.7	3508.4	4262.9	3839.6	3126.9	2519.4	2210.5	2051.4	1987.2	1993.7
2538.9	42.5°	3011.5	3797.7	4390.3	3755.8	2835.7	2215.2	1972.3	1901.6	1932.3	1958.4
2608.7	45°	3205.1	4098.2	4469.4	3613.5	2506.4	1957.5	1831.9	1848.6	1871.9	1874.7
2721.3	47.5°	3452.5	4402.4	4521.5	3398.6	2170.5	1776.0	1742.5	1746.3	1741.6	1722.1
2889.7	50°	3761.4	4698.3	4568.0	3113.9	1884.9	1662.5	1617.9	1604.9	1540.7	1477.4
3113.9	52.5°	4113.1	4969.9	4587.6	2760.4	1662.5	1567.6	1495.1	1413.2	1293.2	1273.7
3395.8	55°	4503.8	5221.1	4537.3	2325.9	1475.5	1445.8	1336.0	1237.4	1224.3	1207.6
3767.0	57.5°	4970.9	5491.9	4435.0	1841.2	1283.9	1303.4	1196.4	1207.6	1184.3	1158.3
4244.3	60°	5481.6	5771.9	4255.4	1399.2	1085.7	1125.7	1160.1	1159.2	1152.7	1131.3
4747.6	62.5°	5941.2	5956.1	3901.9	1071.8	911.7	988.0	1082.0	1081.1	1075.5	1063.4
5273.2	65°	6214.7	5928.2	3312.0	843.8	768.5	874.5	975.9	983.4	984.3	983.4
5668.6	67.5°	6166.4	5601.6	2502.6	671.7	650.3	759.2	870.8	881.0	888.5	890.3
5718.9	70°	5619.3	4884.3	1631.8	535.9	545.2	657.8	771.3	781.5	788.0	795.5
4962.5	72.5°	4380.1	3591.2	934.1	433.5	453.1	570.3	672.6	684.7	688.5	702.4
3453.5	75°	2669.2	2111.9	504.3	341.4	372.1	487.5	575.0	588.9	595.4	612.2
1696.0	77.5°	1269.0	914.5	287.5	266.1	299.6	398.2	485.6	501.5	483.8	493.1
468.0	80°	428.9	339.6	181.4	202.8	228.9	310.7	388.9	404.7	367.5	365.6
155.4	82.5°	149.8	137.7	115.4	134.9	147.9	222.4	294.0	314.5	273.5	272.6
69.8	85°	58.6	55.8	64.2	73.5	88.4	136.8	193.5	203.7	168.4	135.8
20.5	87.5°	12.1	13.0	15.8	16.7	27.0	47.4	69.8	85.6	67.9	57.7
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>
2005.8
2081.2
2191.0
2317.5
2461.7
2626.4
2829.2
3049.7
3169.7
3107.4
2939.9
2769.7
2620.8
2478.5
2324.9
2161.2
2016.1
1982.6
1893.3
1737.0
1485.8
1280.2
1210.4
1153.6
1123.9
1058.7
983.4
892.2
799.2
708.0
614.0
485.6
361.9
259.6
134.0
53.0
0.0

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