

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: P947412

Luminaire Tested: **GALN-SB2D-735-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947412  
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-SB2D-735-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

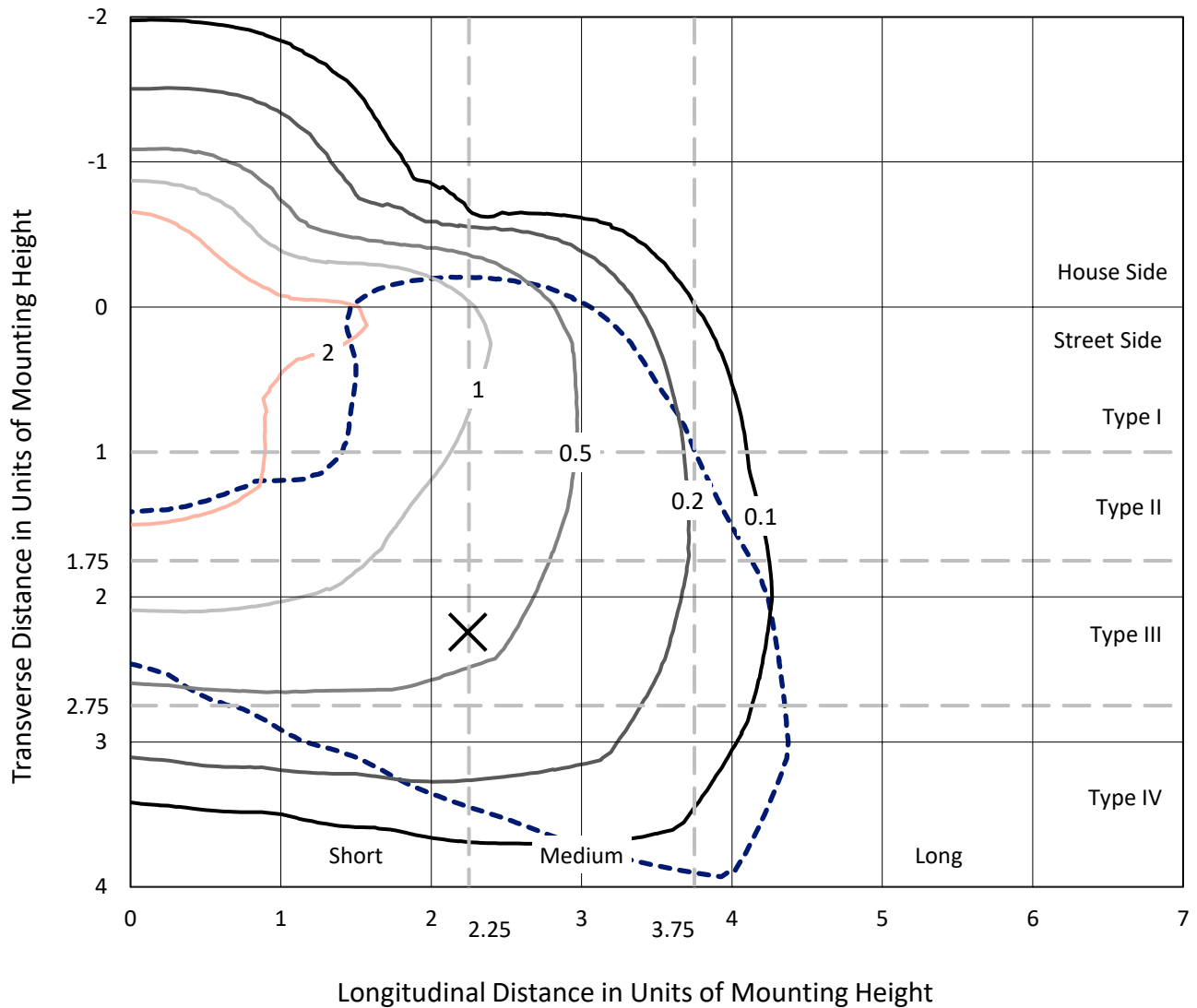
Lumens per Lamp: N/A  
Luminaire Lumens: 20311 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

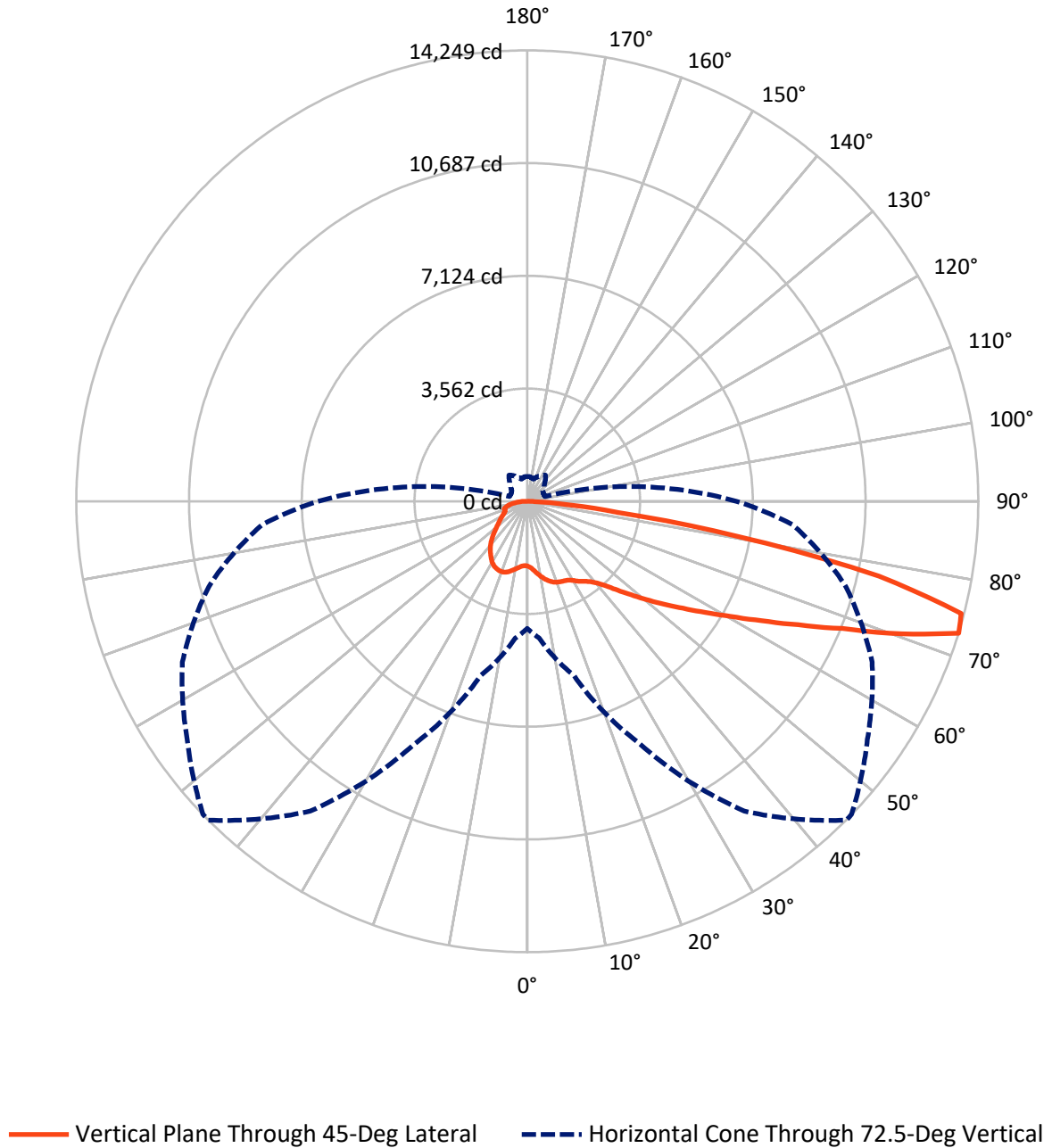
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4591.6	0.0	4591.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	15719.4	0.0	15719.4
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	20311.0	0.0	20311.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.5	1.0
10°-20°	695.3	3.4
20°-30°	1209.6	6.0
30°-40°	1734.0	8.5
40°-50°	2441.5	12.0
50°-60°	3739.7	18.4
60°-70°	5417.5	26.7
70°-80°	4326.2	21.3
80°-90°	538.8	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°	20311.0	100.0
0°-180°	20311.0	100.0



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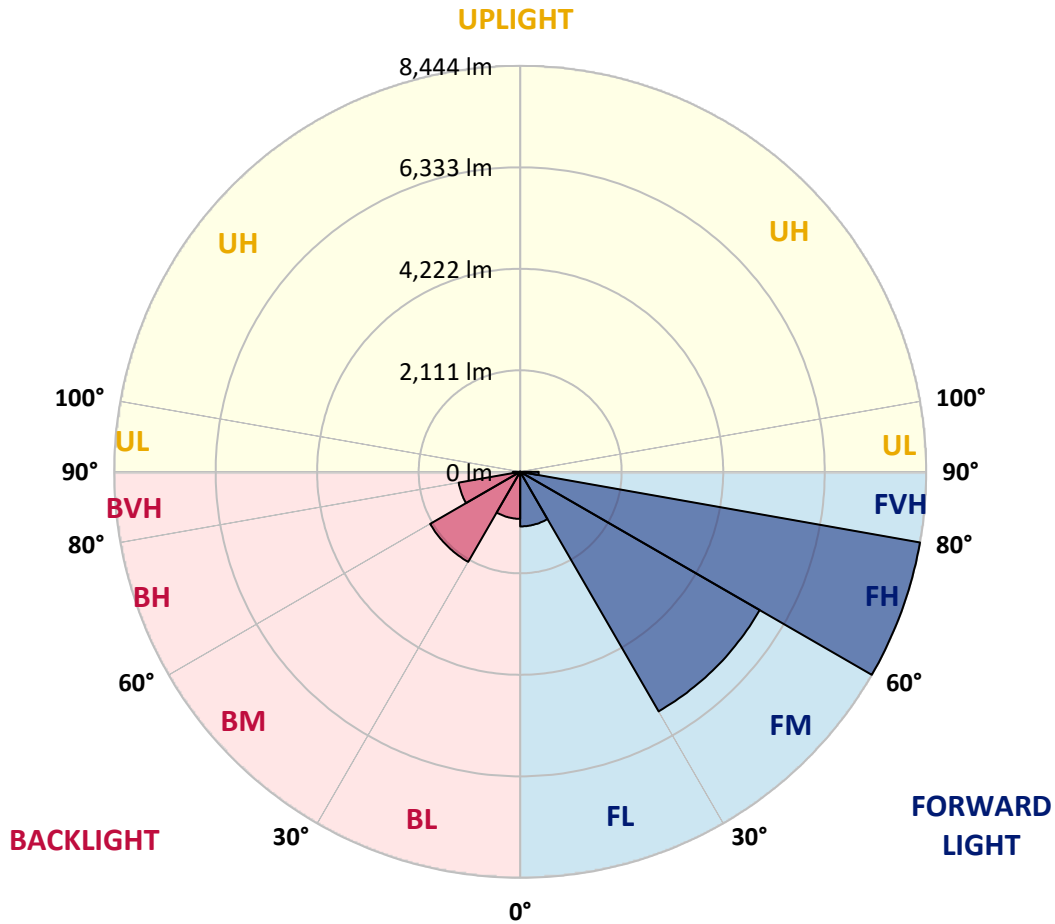
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1135.8	5.6			
FM (30°-60°)	5753.1	28.3			
FH (60°-80°)	8443.9	41.6			G4/12000
FVH (80°-90°)	386.5	1.9			G3/500
BL (0°-30°)	977.6	4.8	B2/1000		
BM (30°-60°)	2162.0	10.6	B2/2500		
BH (60°-80°)	1299.8	6.4	B3/2500		G3/2500
BVH (80°-90°)	152.3	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°	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0
2.5°	2129.2	2143.1	2130.3	2118.5	2113.2	2099.3	2098.2	2089.6	2084.3	2069.3
5°	2278.0	2296.1	2274.7	2251.2	2229.8	2195.6	2191.3	2166.7	2138.9	2106.8
7.5°	2445.9	2462.0	2437.4	2402.1	2364.6	2307.9	2306.8	2261.9	2218.0	2163.5
10°	2592.5	2613.9	2580.8	2532.6	2485.5	2421.3	2413.8	2362.5	2306.8	2236.2
12.5°	2722.0	2737.0	2704.9	2646.0	2591.5	2527.3	2517.6	2460.9	2398.9	2318.6
15°	2824.7	2844.0	2801.2	2738.0	2680.3	2617.1	2608.6	2557.2	2495.2	2410.6
17.5°	2892.1	2908.2	2864.3	2793.7	2738.0	2685.6	2679.2	2636.4	2581.8	2496.2
20°	2917.8	2934.9	2888.9	2817.2	2765.9	2725.2	2722.0	2691.0	2653.5	2575.4
22.5°	2943.5	2959.5	2899.6	2824.7	2779.8	2754.1	2753.0	2732.7	2717.7	2653.5
25°	3047.3	3051.5	2971.3	2863.2	2799.0	2776.6	2775.5	2774.4	2780.8	2730.6
27.5°	3137.1	3136.1	3067.6	2965.9	2866.4	2819.4	2818.3	2829.0	2849.3	2807.6
30°	3268.7	3257.0	3175.7	3069.7	2978.8	2906.0	2899.6	2890.0	2906.0	2872.9
32.5°	3548.0	3510.6	3379.0	3190.6	3071.9	3016.2	3007.7	2947.8	2954.2	2933.8
35°	3948.2	3899.0	3723.5	3419.6	3187.4	3108.3	3104.0	3028.0	3015.2	2997.0
37.5°	4424.3	4363.3	4159.0	3751.3	3386.4	3215.2	3208.8	3140.3	3087.9	3068.7
40°	4902.6	4825.5	4656.5	4155.7	3679.6	3393.9	3373.6	3269.8	3209.9	3177.8
42.5°	5366.9	5302.8	5158.3	4609.4	4041.3	3655.0	3610.1	3432.5	3387.5	3357.6
45°	5777.8	5720.0	5614.1	5094.1	4465.0	4010.2	3966.4	3676.4	3662.5	3662.5
47.5°	6111.6	6098.8	5986.5	5588.4	4964.6	4414.7	4338.7	4015.6	4053.0	4110.8
50°	6481.9	6446.5	6326.7	6075.3	5552.1	4878.0	4815.9	4431.8	4572.0	4730.3
52.5°	6822.1	6841.4	6707.6	6582.4	6215.4	5394.8	5285.6	4922.9	5225.7	5487.9
55°	7172.0	7173.1	7135.6	7118.5	6910.9	5966.1	5846.3	5513.5	5995.0	6320.3
57.5°	7500.5	7502.6	7558.2	7709.1	7717.7	6625.2	6489.3	6239.0	6849.9	7181.6
60°	7793.6	7808.6	7960.5	8313.6	8427.1	7380.6	7252.2	7096.0	7733.7	8067.5
62.5°	7892.1	7946.6	8284.7	8786.6	9127.9	8307.2	8181.0	8087.9	8662.4	8972.7
65°	7725.2	7850.3	8504.1	9177.1	9849.0	9408.2	9283.0	9181.4	9627.6	9919.7
67.5°	7315.4	7476.9	8491.2	9586.9	10724.3	10732.8	10616.2	10377.6	10662.2	10774.6
70°	6235.8	6477.6	7743.3	9739.9	11729.0	12544.3	12431.9	11817.8	11694.7	11151.2
72.5°	4017.7	4343.0	5701.8	8480.5	11952.6	14248.7	14242.3	13117.8	12021.1	10419.3
75°	1465.9	1664.9	2649.2	5323.1	10033.1	14162.1	14203.8	12895.2	10973.6	8048.3
77.5°	533.9	584.2	864.5	2045.8	6170.5	11363.0	11449.7	10309.1	7810.8	4039.1
80°	280.3	308.2	443.0	793.9	2643.9	6748.3	6884.2	6126.6	3671.1	1216.6
82.5°	155.1	168.0	248.2	431.2	1190.9	2885.7	2967.0	2420.3	1291.4	515.7
85°	83.5	88.8	116.6	235.4	582.1	1000.4	1022.9	723.3	514.7	302.8
87.5°	24.6	30.0	38.5	74.9	227.9	224.7	230.0	143.4	203.3	153.0
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°
2049.0	0°	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0
2065.0	2.5°	2058.6	2055.4	2043.6	2038.3	2031.9	2030.8	2036.1	2037.2	2038.3	2039.4
2088.6	5°	2077.9	2067.2	2056.5	2050.1	2052.2	2053.3	2064.0	2071.5	2076.8	2081.1
2132.4	7.5°	2115.3	2106.8	2088.6	2087.5	2090.7	2100.3	2114.3	2131.4	2141.0	2148.5
2189.2	10°	2171.0	2154.9	2133.5	2136.7	2143.1	2157.1	2185.9	2199.8	2215.9	2229.8
2258.7	12.5°	2227.7	2213.8	2189.2	2191.3	2202.0	2226.6	2254.4	2271.5	2282.2	2292.9
2333.6	15°	2301.5	2276.9	2250.1	2250.1	2269.4	2296.1	2309.0	2322.9	2329.3	2341.1
2413.8	17.5°	2377.5	2345.4	2310.1	2307.9	2331.5	2344.3	2351.8	2353.9	2356.1	2368.9
2492.0	20°	2453.4	2418.1	2367.8	2363.6	2368.9	2366.8	2365.7	2363.6	2366.8	2382.8
2572.2	22.5°	2528.3	2487.7	2418.1	2398.9	2383.9	2363.6	2362.5	2361.4	2363.6	2379.6
2658.9	25°	2616.1	2566.8	2473.8	2416.0	2365.7	2337.9	2341.1	2342.2	2344.3	2357.1
2748.7	27.5°	2711.3	2656.7	2525.1	2410.6	2319.7	2300.4	2295.1	2298.3	2305.8	2326.1
2838.6	30°	2806.5	2742.3	2572.2	2389.2	2261.9	2235.2	2218.0	2225.5	2249.1	2269.4
2916.7	32.5°	2893.2	2829.0	2609.6	2342.2	2188.1	2146.4	2123.9	2133.5	2157.1	2164.5
3003.4	35°	2994.8	2922.1	2625.7	2267.3	2107.8	2043.6	2013.7	1999.8	2011.5	2004.0
3105.0	37.5°	3108.3	3032.3	2623.6	2168.8	2013.7	1939.8	1898.1	1845.7	1821.1	1795.4
3254.8	40°	3276.2	3167.1	2597.9	2050.1	1897.0	1829.6	1754.7	1665.9	1610.3	1560.0
3496.6	42.5°	3505.2	3354.3	2550.8	1919.5	1765.4	1702.3	1600.7	1496.9	1409.1	1325.7
3863.6	45°	3846.5	3599.4	2492.0	1780.4	1623.1	1561.1	1450.9	1334.2	1234.7	1127.7
4384.7	47.5°	4338.7	3928.9	2436.3	1622.1	1473.3	1416.6	1317.1	1209.1	1091.4	987.6
5138.0	50°	5014.9	4401.8	2385.0	1468.0	1325.7	1282.9	1203.7	1093.5	974.7	891.3
6020.7	52.5°	5875.2	5044.9	2363.6	1319.3	1187.7	1171.6	1108.5	1005.8	893.4	822.8
7050.0	55°	6862.8	5814.2	2363.6	1177.0	1066.8	1072.1	1028.2	933.0	835.6	772.5
8111.4	57.5°	7870.7	6593.1	2320.8	1045.4	964.0	986.5	958.7	875.2	787.5	722.2
9227.4	60°	8799.4	7245.8	2147.4	925.5	873.1	908.4	890.2	818.5	711.5	657.0
10160.4	62.5°	9513.1	7613.9	1813.6	830.3	798.2	838.9	829.2	743.6	697.6	675.1
10926.5	65°	9870.4	7554.0	1386.7	745.8	735.1	798.2	777.9	774.7	738.3	712.6
11175.8	67.5°	9651.1	7038.2	1005.8	683.7	698.7	760.7	838.9	851.7	784.3	734.0
10473.9	70°	8689.2	6105.2	749.0	624.9	652.7	761.8	956.5	891.3	769.3	710.5
8400.3	72.5°	6610.2	4552.7	581.0	562.8	592.8	767.2	1009.0	873.1	726.5	785.4
5233.2	75°	3780.2	2499.4	466.5	486.8	517.9	716.9	982.2	826.0	693.3	721.2
2073.6	77.5°	1441.2	960.8	385.2	411.9	416.2	625.9	939.4	822.8	660.2	644.1
621.7	80°	499.7	375.6	318.8	327.4	322.1	556.4	900.9	715.8	540.3	483.6
256.8	82.5°	204.4	187.2	252.5	241.8	229.0	432.3	727.6	585.3	441.9	390.5
124.1	85°	88.8	118.8	166.9	146.6	132.7	299.6	583.1	495.4	373.4	322.1
40.7	87.5°	18.2	44.9	70.6	66.3	68.5	200.1	414.1	352.0	264.3	197.9
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>
2049.0
2043.6
2083.2
2150.6
2226.6
2297.2
2345.4
2373.2
2389.2
2390.3
2374.3
2346.4
2291.9
2191.3
2027.6
1811.5
1563.2
1318.2
1114.9
975.8
885.9
817.5
766.1
711.5
648.4
667.7
704.0
725.4
700.8
778.9
721.2
587.4
467.6
386.3
321.0
155.1
0.0

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