

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: P950705

Luminaire Tested: **GALN-SB5A-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19968 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

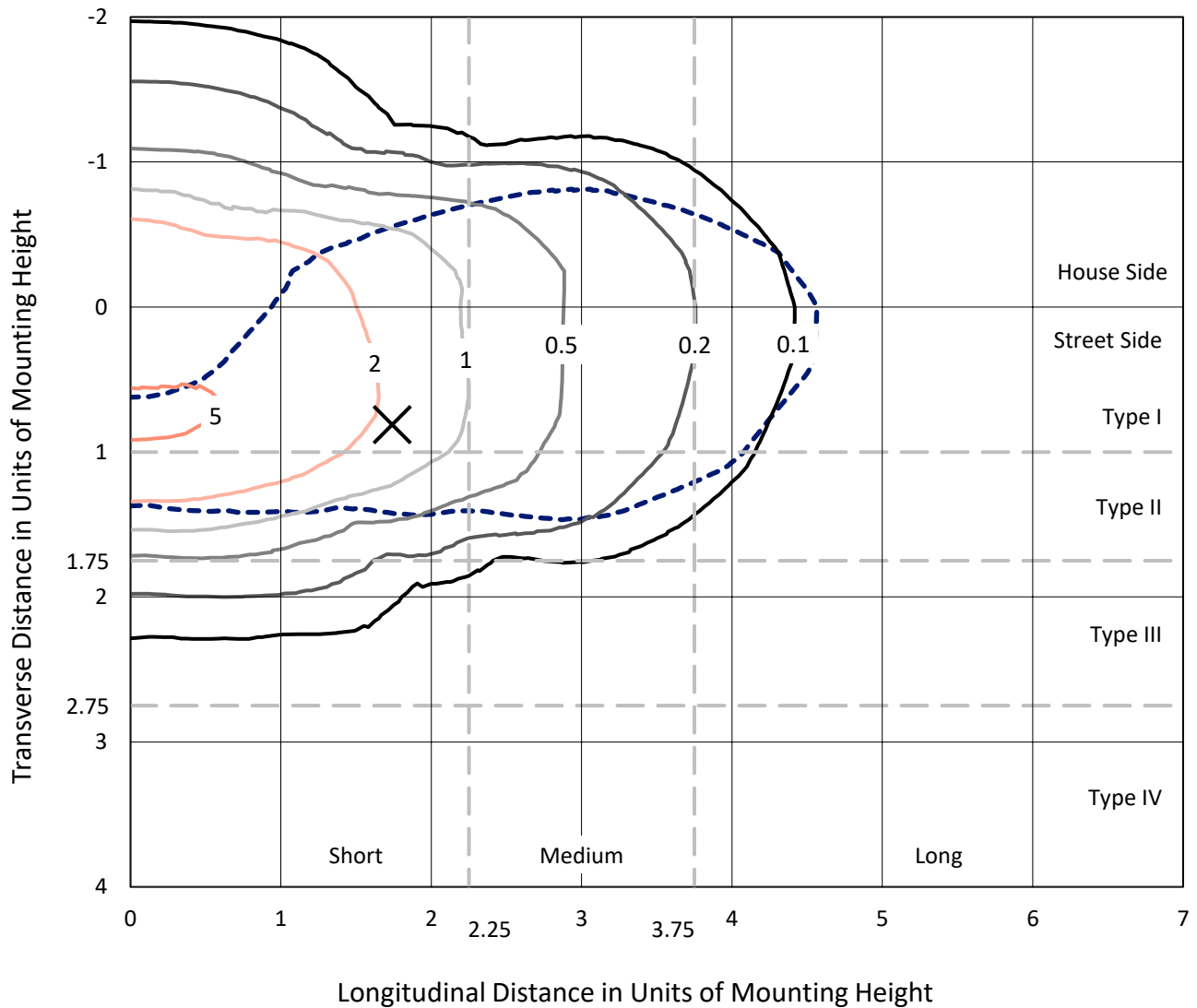
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

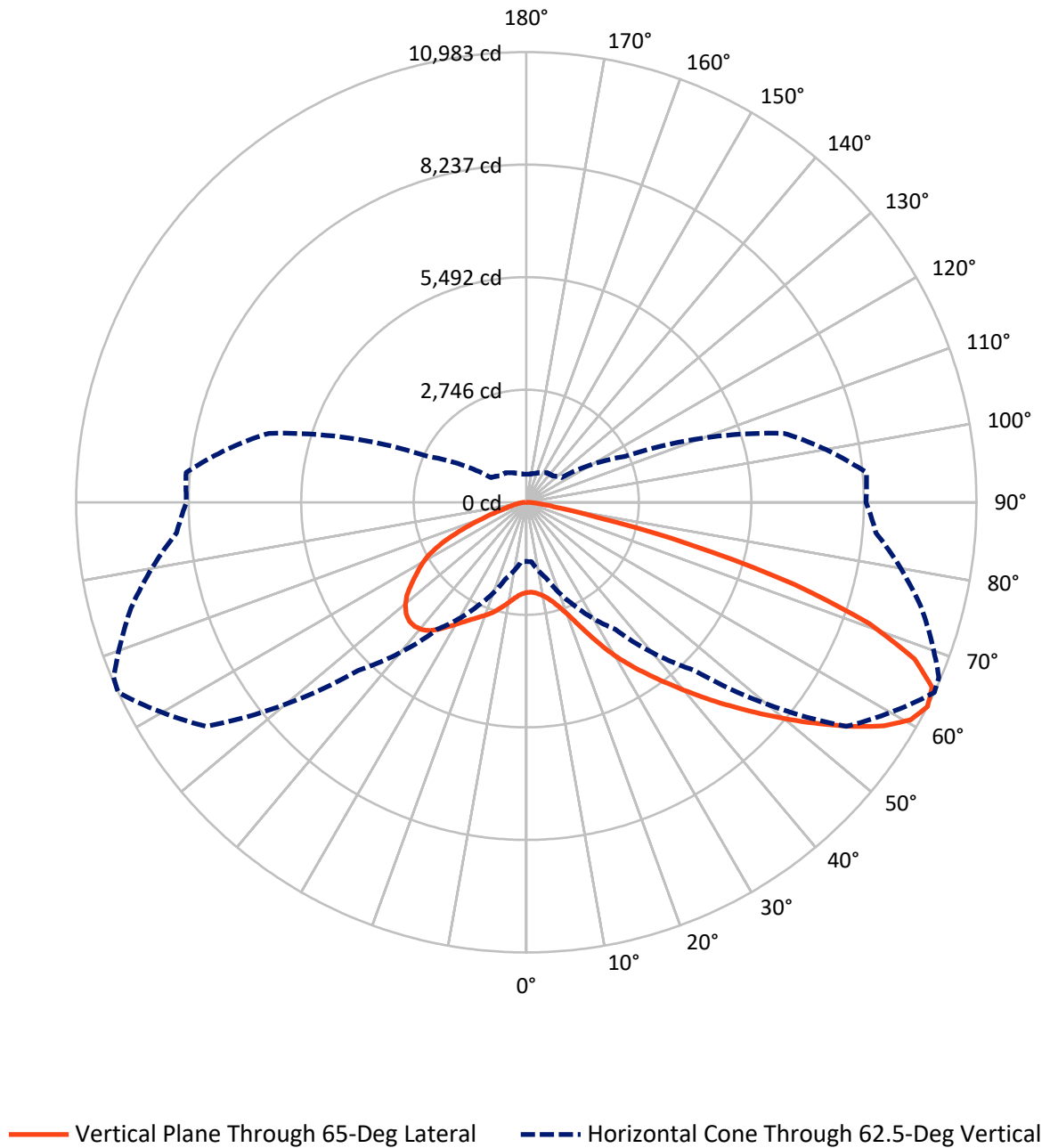
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6301.0	0.0	6301.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	13667.0	0.0	13667.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	19968.0	0.0	19968.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	1.1
10°-20°	743.9	3.7
20°-30°	1508.4	7.6
30°-40°	2610.2	13.1
40°-50°	3950.1	19.8
50°-60°	4631.2	23.2
60°-70°	3882.7	19.4
70°-80°	2143.6	10.7
80°-90°	278.4	1.4
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°	19968.0	100.0
0°-180°	19968.0	100.0



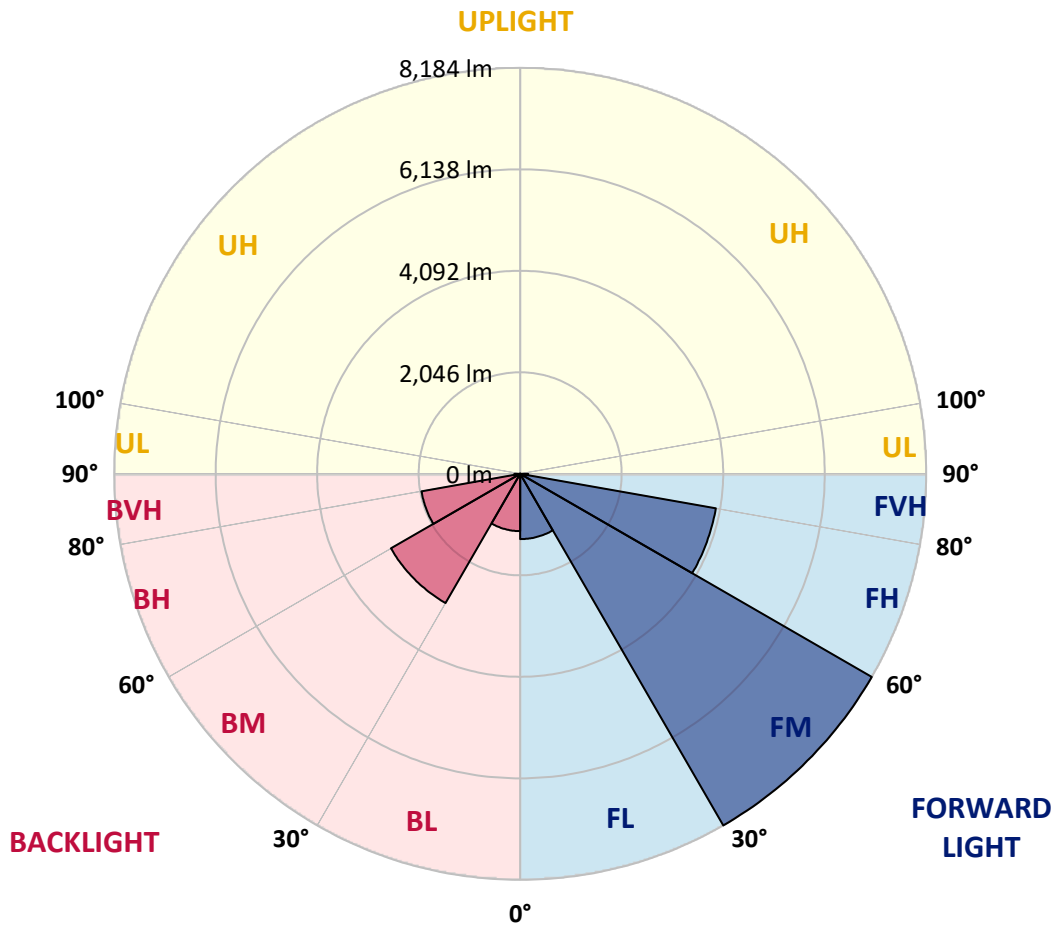
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.2	6.6			
FM (30°-60°)	8183.5	41.0			
FH (60°-80°)	4005.0	20.1			G2/5000
FVH (80°-90°)	162.3	0.8			G2/225
BL (0°-30°)	1155.5	5.8	B3/2500		
BM (30°-60°)	3008.0	15.1	B3/5000		
BH (60°-80°)	2021.3	10.1	B3/2500		G3/2500
BVH (80°-90°)	116.2	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4
2.5°	2185.9	2179.7	2184.8	2184.8	2186.9	2185.9	2193.1	2195.2	2198.3	2204.5
5°	2164.1	2163.1	2172.4	2180.7	2189.0	2196.2	2205.6	2219.0	2221.1	2228.4
7.5°	2156.9	2150.7	2165.2	2175.5	2195.2	2212.8	2237.7	2260.5	2269.8	2272.9
10°	2212.8	2202.5	2215.9	2222.1	2238.7	2256.3	2285.3	2321.6	2332.0	2344.4
12.5°	2308.1	2296.7	2316.4	2325.7	2341.3	2356.8	2376.5	2411.7	2416.9	2439.7
15°	2438.7	2425.2	2437.6	2449.0	2474.9	2489.4	2509.1	2543.3	2543.3	2560.9
17.5°	2615.8	2598.2	2607.5	2611.7	2628.2	2650.0	2683.1	2713.2	2728.7	2722.5
20°	2880.0	2858.2	2858.2	2837.5	2831.3	2848.9	2892.4	2933.8	2950.4	2918.3
22.5°	3276.8	3245.7	3228.1	3157.6	3129.6	3131.7	3175.2	3226.0	3239.5	3182.5
25°	3781.3	3732.6	3708.8	3605.2	3542.0	3487.1	3521.2	3586.5	3605.2	3534.7
27.5°	4285.8	4288.9	4266.1	4141.8	4037.2	3936.7	3919.1	3987.4	4007.1	3927.3
30°	4993.3	4919.8	4876.3	4727.1	4577.9	4437.0	4364.5	4392.5	4397.7	4302.4
32.5°	5603.5	5584.9	5491.6	5361.1	5169.5	4948.8	4827.6	4783.0	4774.8	4639.0
35°	6298.7	6288.3	6189.9	6034.5	5827.3	5520.7	5302.1	5174.6	5164.3	4973.7
37.5°	7005.2	7005.2	6908.8	6738.9	6524.5	6141.2	5808.6	5606.6	5573.5	5324.9
40°	7568.8	7534.6	7552.2	7480.7	7235.2	6828.0	6371.2	6078.0	6033.5	5735.1
42.5°	7888.9	7877.5	7983.1	8062.9	7962.4	7637.1	6990.7	6588.7	6526.6	6186.8
45°	7960.3	7947.9	8136.5	8428.6	8569.5	8435.9	7664.1	7126.4	7050.8	6659.2
47.5°	7795.6	7770.8	8047.4	8508.4	8960.1	9195.2	8393.4	7709.6	7599.8	7119.1
50°	7300.4	7276.6	7695.1	8307.4	9091.6	9711.1	9184.9	8328.1	8160.3	7612.3
52.5°	6224.1	6235.5	6891.2	7732.4	8918.6	10032.3	9866.5	8979.7	8777.7	8116.8
55°	4848.3	4873.2	5679.2	6605.3	8226.6	9983.6	10331.7	9651.0	9450.1	8591.2
57.5°	3471.5	3581.3	4336.5	5253.4	6897.4	9211.8	10433.2	10289.2	10094.4	9109.2
60°	2250.1	2269.8	3046.8	3970.8	5252.3	7840.2	10227.0	10773.0	10620.7	9637.6
62.5°	1442.1	1455.5	1929.0	2777.4	3780.2	5800.4	9532.9	10983.3	10936.7	9986.7
65°	1059.8	1049.4	1296.0	1835.7	2546.4	3577.2	8185.1	10881.8	10974.0	10205.3
67.5°	884.7	870.2	991.4	1271.1	1876.1	2031.5	6056.2	10221.9	10559.6	10180.4
70°	806.0	793.5	867.1	943.8	1463.8	1360.2	3053.0	8886.5	9406.6	9897.6
72.5°	682.7	660.9	761.4	838.1	1138.5	1043.2	1261.8	6826.0	7460.0	8991.1
75°	529.4	514.9	600.9	737.6	855.7	814.3	797.7	4144.9	4836.9	6953.4
77.5°	419.6	399.9	478.6	575.0	769.7	614.3	581.2	1785.0	2470.8	4439.1
80°	316.0	298.4	363.6	454.8	591.5	463.1	376.1	728.3	931.3	2249.1
82.5°	224.8	209.3	253.8	333.6	397.8	415.4	231.0	408.2	458.9	867.1
85°	144.0	134.7	169.9	209.3	252.8	267.3	140.9	213.4	234.1	357.4
87.5°	78.7	64.2	91.2	97.4	117.1	106.7	67.3	77.7	83.9	129.5
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°
2200.4	0°	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4
2204.5	2.5°	2208.7	2211.8	2222.1	2225.3	2232.5	2241.8	2248.0	2254.3	2254.3	2260.5
2237.7	5°	2238.7	2246.0	2267.7	2279.1	2297.8	2316.4	2327.8	2341.3	2349.6	2353.7
2290.5	7.5°	2296.7	2308.1	2339.2	2358.9	2391.0	2416.9	2434.5	2453.2	2457.3	2468.7
2364.1	10°	2375.5	2388.9	2424.2	2461.4	2499.8	2531.9	2548.5	2561.9	2567.1	2569.2
2458.3	12.5°	2465.6	2485.3	2530.9	2576.4	2616.8	2644.8	2649.0	2645.9	2631.3	2618.9
2574.4	15°	2576.4	2594.1	2644.8	2694.5	2733.9	2739.1	2713.2	2696.6	2679.0	2675.9
2703.9	17.5°	2709.0	2718.4	2765.0	2813.7	2816.8	2799.2	2760.8	2745.3	2728.7	2717.3
2872.7	20°	2863.4	2860.3	2893.4	2914.2	2892.4	2838.5	2780.5	2754.6	2738.1	2724.6
3079.9	22.5°	3047.8	3024.0	3019.8	3014.7	2956.6	2843.7	2765.0	2731.8	2705.9	2687.3
3369.0	25°	3316.1	3225.0	3161.8	3126.5	2996.0	2815.7	2715.3	2641.7	2593.0	2560.9
3722.2	27.5°	3651.8	3498.4	3338.9	3252.9	2996.0	2758.8	2595.1	2476.0	2396.2	2363.0
4064.1	30°	3971.9	3811.3	3576.1	3405.2	2988.8	2665.5	2401.4	2235.6	2142.4	2109.2
4356.2	32.5°	4245.4	4070.3	3827.9	3572.0	2971.1	2514.3	2161.0	1977.7	1887.5	1848.2
4645.3	35°	4499.2	4312.7	4080.7	3755.4	2924.5	2292.6	1896.8	1757.0	1656.5	1593.3
4939.5	37.5°	4759.2	4537.5	4320.0	3921.1	2840.6	2033.6	1693.8	1574.7	1456.6	1371.6
5252.3	40°	5042.0	4776.8	4575.9	4019.5	2702.8	1787.0	1536.3	1427.6	1302.2	1212.1
5612.9	42.5°	5372.5	5063.8	4860.7	4070.3	2514.3	1612.0	1433.8	1327.1	1209.0	1135.4
5999.3	45°	5717.5	5379.8	5120.8	4069.3	2304.0	1530.1	1400.6	1295.0	1164.4	1087.8
6396.0	47.5°	6079.0	5710.2	5345.6	4003.0	2121.7	1541.5	1382.0	1225.5	1081.5	1007.0
6797.0	50°	6441.6	6071.8	5563.1	3878.6	2044.0	1516.7	1312.6	1128.2	958.3	890.9
7173.0	52.5°	6801.1	6456.1	5750.6	3701.5	1965.2	1424.5	1223.5	1001.8	907.5	860.9
7561.5	55°	7162.7	6836.3	5954.7	3443.5	1768.4	1316.7	1074.3	954.1	867.1	824.6
7941.7	57.5°	7525.2	7275.6	6148.4	3185.6	1520.8	1184.1	992.5	896.1	826.7	790.4
8259.7	60°	7902.3	7778.0	6348.4	2948.4	1276.3	1014.2	932.4	849.5	779.0	738.6
8565.3	62.5°	8290.8	8331.2	6504.8	2642.7	1051.5	910.6	878.5	793.5	725.2	686.8
8818.1	65°	8682.4	8864.7	6607.4	2219.0	852.6	812.2	820.5	732.4	663.0	629.9
9003.6	67.5°	8977.7	9249.1	6578.4	1679.3	699.3	719.0	748.0	668.2	602.9	577.0
8973.5	70°	9010.8	9203.5	6292.4	1149.9	585.3	627.8	667.2	605.0	537.7	519.0
8550.8	72.5°	8569.5	8581.9	5495.8	751.1	495.2	551.1	582.2	540.8	475.5	456.9
7480.7	75°	7412.3	7097.4	4035.1	495.2	414.4	473.4	502.4	473.4	410.2	414.4
5597.3	77.5°	5616.0	5026.5	2450.1	352.2	346.0	397.8	437.2	416.5	362.6	407.1
2814.7	80°	2893.4	2719.4	1092.9	263.1	273.5	318.0	359.5	332.5	287.0	273.5
628.8	82.5°	663.0	770.8	431.0	188.5	197.9	228.9	274.5	249.7	206.2	174.0
262.1	85°	232.1	253.8	190.6	118.1	116.0	143.0	186.5	166.8	139.9	111.9
110.8	87.5°	73.6	96.3	71.5	47.7	49.7	64.2	86.0	78.7	65.3	42.5
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>
2200.4
2260.5
2355.8
2464.6
2564.0
2618.9
2675.9
2718.4
2725.6
2693.5
2573.3
2379.6
2128.9
1867.8
1614.0
1394.4
1229.7
1149.9
1100.2
1017.3
895.1
860.9
820.5
784.2
735.5
685.8
628.8
578.1
520.1
455.8
399.9
358.4
249.7
172.0
118.1
44.5
0.0

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