

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: P949569

Luminaire Tested: **GALN-SB4B-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24319 lumens
Efficiency: N/A
Efficacy: 165.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

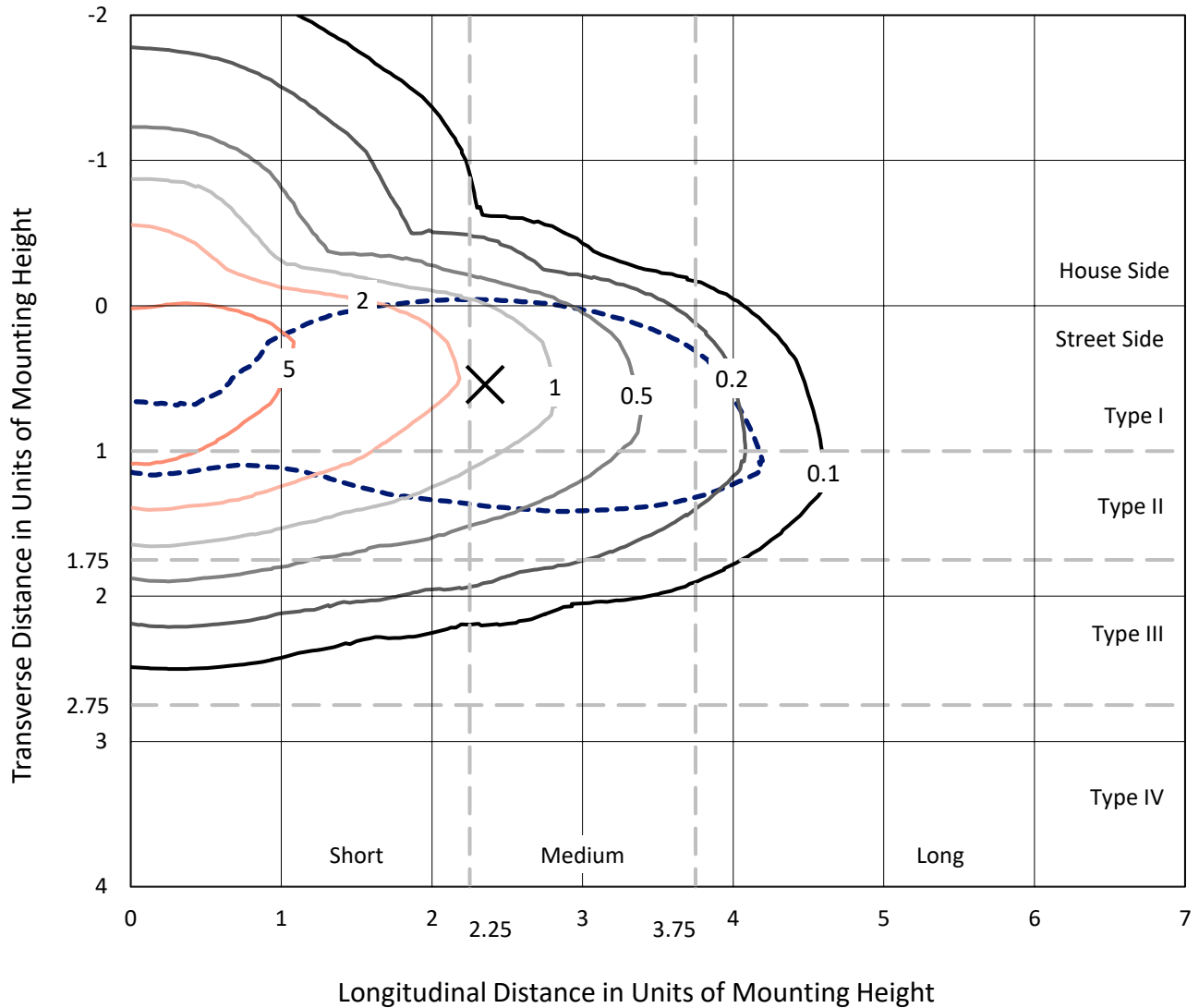
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

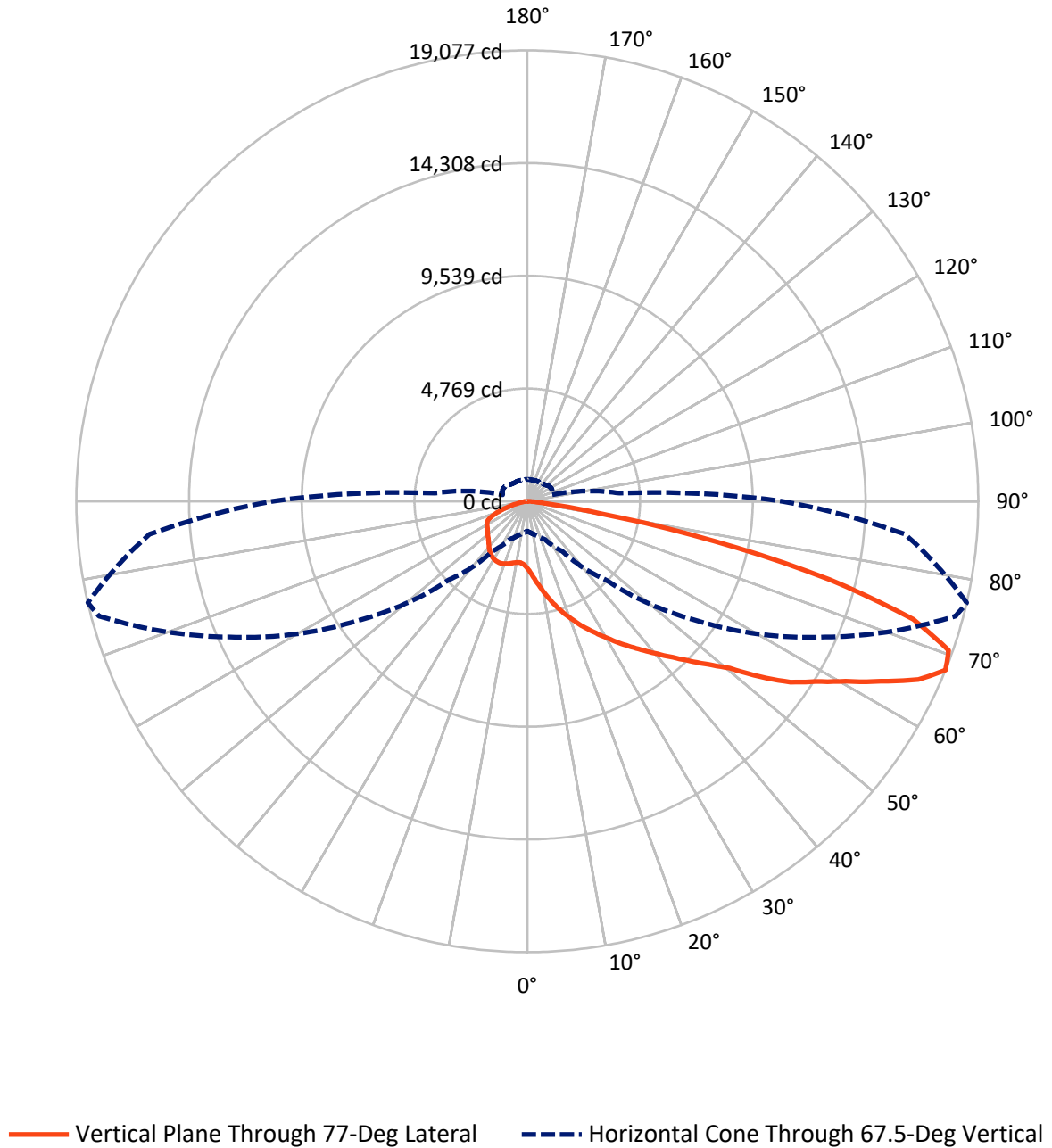
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4600.2	0.0	4600.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	19718.8	0.0	19718.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	24319.0	0.0	24319.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.8	1.3
10°-20°	1098.8	4.5
20°-30°	2074.6	8.5
30°-40°	3342.1	13.7
40°-50°	4571.4	18.8
50°-60°	5156.6	21.2
60°-70°	4813.0	19.8
70°-80°	2638.4	10.8
80°-90°	318.3	1.3
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°	24319.0	100.0
0°-180°	24319.0	100.0



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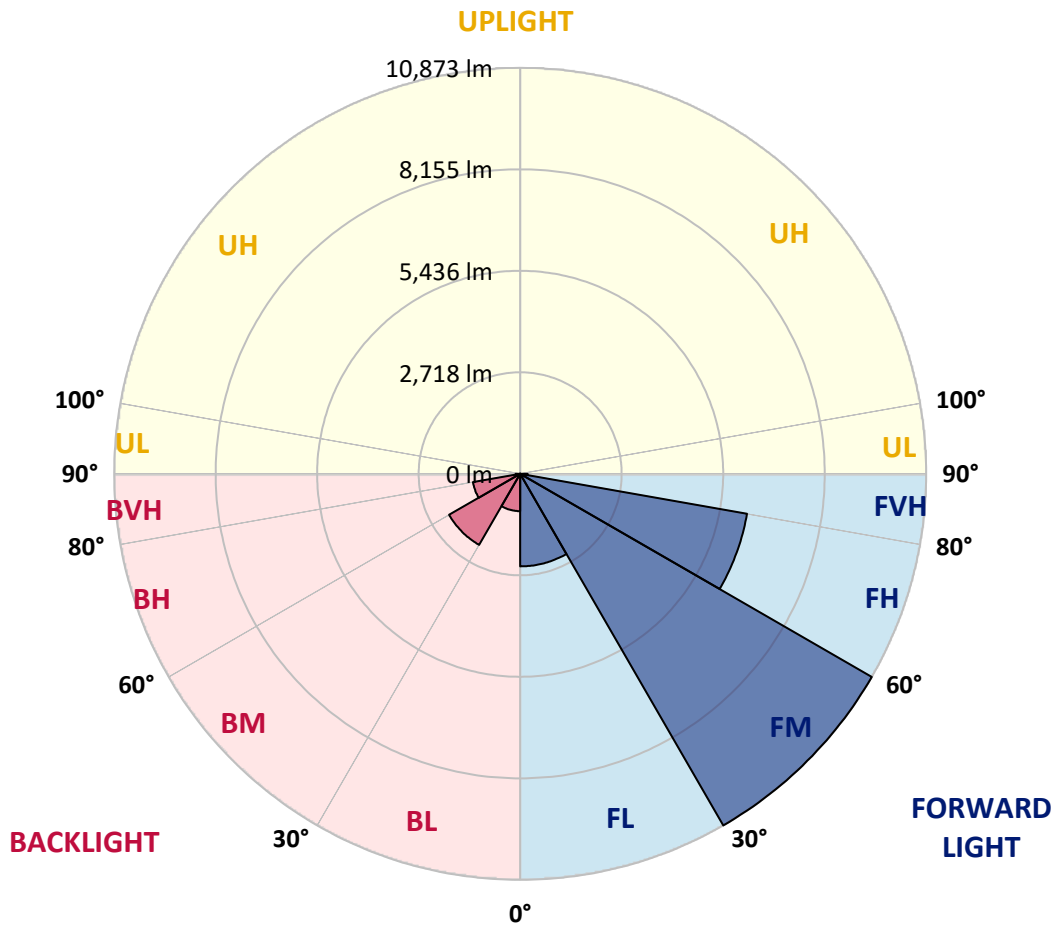
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2479.0	10.2			
FM (30°-60°)	10872.8	44.7			
FH (60°-80°)	6168.0	25.4			G3/7500
FVH (80°-90°)	199.0	0.8			G2/225
BL (0°-30°)	1000.2	4.1	B3/2500		
BM (30°-60°)	2197.4	9.0	B2/2500		
BH (60°-80°)	1283.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	119.2	0.5			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4
2.5°	3572.7	3597.8	3566.4	3566.4	3461.0	3405.7	3300.3	3219.9	3075.6	3050.5
5°	4222.9	4254.3	4210.4	4191.6	4067.3	3953.0	3776.0	3601.6	3344.2	3317.8
7.5°	4726.3	4766.5	4727.6	4707.5	4597.0	4469.0	4261.9	4018.3	3655.5	3604.1
10°	5136.8	5143.1	5130.6	5138.1	5051.5	4946.0	4733.9	4450.2	3997.0	3926.7
12.5°	5369.1	5397.9	5423.0	5468.2	5453.2	5387.9	5197.1	4858.1	4358.5	4268.1
15°	5478.3	5528.5	5585.0	5689.2	5773.3	5789.6	5644.0	5296.3	4726.3	4617.1
17.5°	5517.2	5564.9	5654.0	5804.7	5985.4	6107.2	6041.9	5721.8	5090.4	4964.8
20°	5714.3	5728.1	5782.1	5925.2	6121.0	6323.1	6372.1	6131.1	5450.7	5308.8
22.5°	6136.1	6108.5	6123.5	6188.8	6329.4	6525.2	6637.0	6492.6	5821.0	5657.8
25°	6832.8	6752.4	6672.1	6596.8	6668.3	6778.8	6905.6	6854.1	6208.9	6001.8
27.5°	7712.8	7614.9	7437.9	7190.6	7103.9	7142.9	7199.3	7189.3	6567.9	6358.3
30°	8579.0	8464.7	8253.8	7896.1	7667.6	7564.6	7522.0	7493.1	6958.3	6734.9
32.5°	9270.6	9180.3	8973.1	8572.7	8241.3	8065.5	7923.7	7820.7	7366.3	7142.9
35°	9875.7	9791.6	9554.3	9117.5	8757.2	8570.2	8384.4	8164.7	7790.6	7564.6
37.5°	10428.1	10344.0	10018.8	9564.4	9201.6	9072.3	8906.6	8533.8	8216.2	8002.8
40°	10777.0	10758.2	10454.4	9939.7	9563.1	9499.1	9443.9	8961.8	8688.2	8489.8
42.5°	10866.2	10907.6	10666.6	10243.5	9884.5	9833.0	9962.3	9446.4	9217.9	9028.4
45°	10651.5	10770.8	10612.6	10325.1	10113.0	10085.4	10421.8	9976.1	9804.2	9630.9
47.5°	10107.9	10310.1	10244.8	10204.6	10174.5	10293.7	10826.0	10538.5	10468.2	10317.6
50°	9010.8	9393.7	9507.9	9761.5	10052.7	10455.7	11193.8	11152.4	11244.0	11092.1
52.5°	7114.0	7641.2	8304.0	8939.2	9678.6	10401.7	11598.0	12033.6	12420.3	12337.4
55°	5872.5	6109.7	6619.4	7784.3	8953.0	10174.5	11780.1	12745.4	13587.7	13513.7
57.5°	4918.4	5130.6	5444.4	6417.3	7855.9	9658.5	11893.0	13179.8	14387.4	14379.9
60°	3895.3	4120.0	4441.4	5130.6	6574.2	8767.3	11867.9	13674.4	15408.0	15470.7
62.5°	2740.4	2987.7	3344.2	3986.9	5264.9	7612.3	11355.8	14032.1	16609.3	16780.0
65°	1801.4	1964.6	2233.2	2788.1	3922.9	6127.3	10377.8	14078.6	17894.8	18183.5
67.5°	1262.9	1325.6	1483.8	1785.1	2586.0	4698.7	8820.0	13597.8	18752.2	19077.3
70°	985.4	1016.8	1097.2	1217.7	1624.4	3159.7	6758.7	12347.5	18568.9	18907.8
72.5°	851.1	881.2	911.4	926.4	1089.6	1950.8	4578.2	10323.9	16842.8	17072.5
75°	772.0	779.6	804.7	799.6	831.0	1265.4	2642.5	7522.0	13289.0	13209.9
77.5°	649.0	659.1	700.5	694.2	738.1	864.9	1372.1	4854.4	8615.4	8078.1
80°	549.8	554.9	600.0	592.5	641.5	626.4	700.5	2474.3	3654.3	3095.7
82.5°	190.8	236.0	458.2	472.0	489.6	379.1	404.2	1009.3	1116.0	854.9
85°	92.9	99.2	233.5	331.4	330.2	190.8	197.1	360.3	351.5	276.2
87.5°	15.1	18.8	27.6	129.3	102.9	50.2	67.8	70.3	72.8	62.8
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°
2853.4	0°	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4
2955.1	2.5°	2884.8	2822.0	2690.2	2568.4	2473.0	2381.4	2329.9	2286.0	2260.9	2255.8
3093.1	5°	2962.6	2833.3	2593.5	2391.4	2259.6	2161.7	2110.2	2077.6	2061.3	2051.2
3278.9	7.5°	3074.3	2884.8	2543.3	2313.6	2175.5	2105.2	2078.8	2073.8	2072.6	2073.8
3503.6	10°	3228.7	2968.9	2538.3	2294.8	2179.3	2140.3	2139.1	2140.3	2145.4	2146.6
3748.4	12.5°	3395.7	3055.5	2558.4	2311.1	2227.0	2205.6	2201.9	2200.6	2204.4	2206.9
3995.7	15°	3577.7	3169.7	2592.3	2346.2	2279.7	2257.1	2253.3	2245.8	2244.5	2243.3
4255.6	17.5°	3764.7	3282.7	2629.9	2383.9	2313.6	2282.2	2268.4	2250.8	2237.0	2233.2
4524.2	20°	3954.3	3394.4	2656.3	2402.7	2316.1	2272.2	2244.5	2214.4	2190.6	2176.7
4795.4	22.5°	4156.4	3511.2	2672.6	2397.7	2293.5	2233.2	2183.0	2147.9	2111.5	2087.6
5069.0	25°	4353.5	3612.9	2671.4	2371.3	2249.6	2173.0	2109.0	2063.8	2013.6	1988.4
5351.5	27.5°	4543.1	3704.5	2640.0	2324.9	2186.8	2101.4	2024.9	1970.9	1921.9	1898.1
5636.4	30°	4738.9	3781.1	2591.0	2257.1	2112.7	2018.6	1934.5	1888.0	1844.1	1821.5
5937.7	32.5°	4933.5	3851.4	2522.0	2173.0	2027.4	1937.0	1854.1	1811.4	1785.1	1785.1
6261.6	35°	5139.3	3900.3	2430.3	2075.1	1937.0	1850.4	1785.1	1760.0	1757.5	1742.4
6604.3	37.5°	5356.5	3931.7	2318.6	1974.6	1847.9	1766.3	1746.2	1716.0	1690.9	1658.3
6980.9	40°	5585.0	3963.1	2184.3	1870.4	1753.7	1708.5	1699.7	1659.6	1588.0	1507.7
7407.7	42.5°	5862.4	3984.4	2044.9	1766.3	1654.5	1639.5	1652.0	1583.0	1468.7	1408.5
7922.4	45°	6183.8	4019.6	1916.9	1663.3	1552.8	1552.8	1605.6	1515.2	1421.0	1383.4
8509.9	47.5°	6600.5	4101.2	1797.6	1550.3	1458.7	1483.8	1502.6	1433.6	1380.9	1334.4
9225.4	50°	7203.1	4297.0	1674.6	1436.1	1387.1	1437.4	1411.0	1370.8	1309.3	1271.7
10362.8	52.5°	7951.3	4412.5	1565.4	1333.2	1325.6	1375.8	1338.2	1300.5	1254.1	1203.9
11225.2	55°	8461.0	4433.8	1473.8	1257.8	1284.2	1279.2	1265.4	1231.5	1206.4	1139.8
12076.3	57.5°	9030.9	4476.5	1398.4	1212.7	1257.8	1202.6	1197.6	1168.7	1136.1	1090.9
13114.5	60°	9712.5	4543.1	1333.2	1195.1	1235.2	1152.4	1127.3	1116.0	1083.4	1060.8
14363.5	62.5°	10455.7	4603.3	1266.6	1197.6	1208.9	1103.4	1065.8	1062.0	1041.9	1034.4
15536.0	65°	10962.8	4438.9	1183.8	1195.1	1167.5	1053.2	1005.5	1004.3	987.9	985.4
16044.4	67.5°	10785.8	3917.9	1072.1	1159.9	1124.8	1003.0	950.3	945.3	923.9	925.2
15513.4	70°	9899.6	3174.7	917.6	1073.3	1072.1	957.8	892.5	876.2	847.4	852.4
13488.6	72.5°	8237.5	2352.5	710.5	928.9	987.9	916.4	826.0	799.6	763.2	768.3
9957.3	75°	5949.0	1599.3	517.2	706.8	859.9	867.4	760.7	715.5	671.6	679.1
5542.3	77.5°	3044.2	906.4	380.4	487.1	675.4	788.3	701.7	641.5	631.4	701.7
1598.0	80°	993.0	454.4	263.6	341.5	443.1	645.2	615.1	546.1	543.6	559.9
335.2	82.5°	296.3	192.1	169.5	224.7	244.8	494.6	531.0	413.0	355.3	374.1
111.7	85°	101.7	92.9	96.7	111.7	116.7	290.0	371.6	273.7	258.6	285.0
25.1	87.5°	23.9	32.6	27.6	25.1	25.1	70.3	144.4	114.2	158.2	105.4
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>
2853.4
2255.8
2050.0
2077.6
2147.9
2208.1
2242.0
2237.0
2181.8
2088.9
1988.4
1896.8
1820.2
1786.3
1738.6
1653.3
1496.4
1409.7
1389.7
1333.2
1267.9
1193.8
1141.1
1075.8
1067.0
1034.4
984.2
925.2
857.4
767.0
681.6
691.7
480.8
386.6
281.2
101.7
0.0

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