

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: P950451

Luminaire Tested: **GALN-SB4D-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950451
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-SB4D-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25285 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

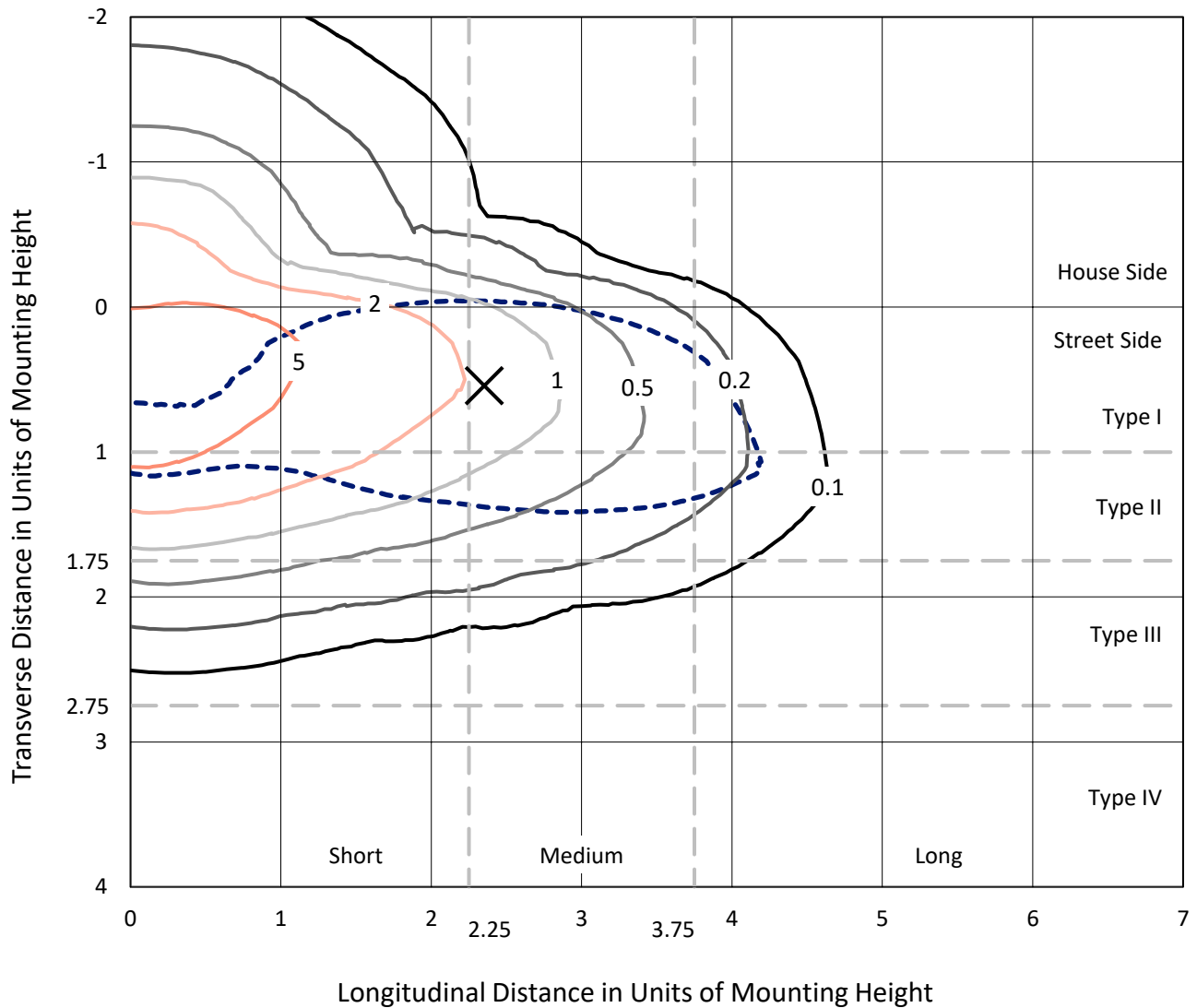
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

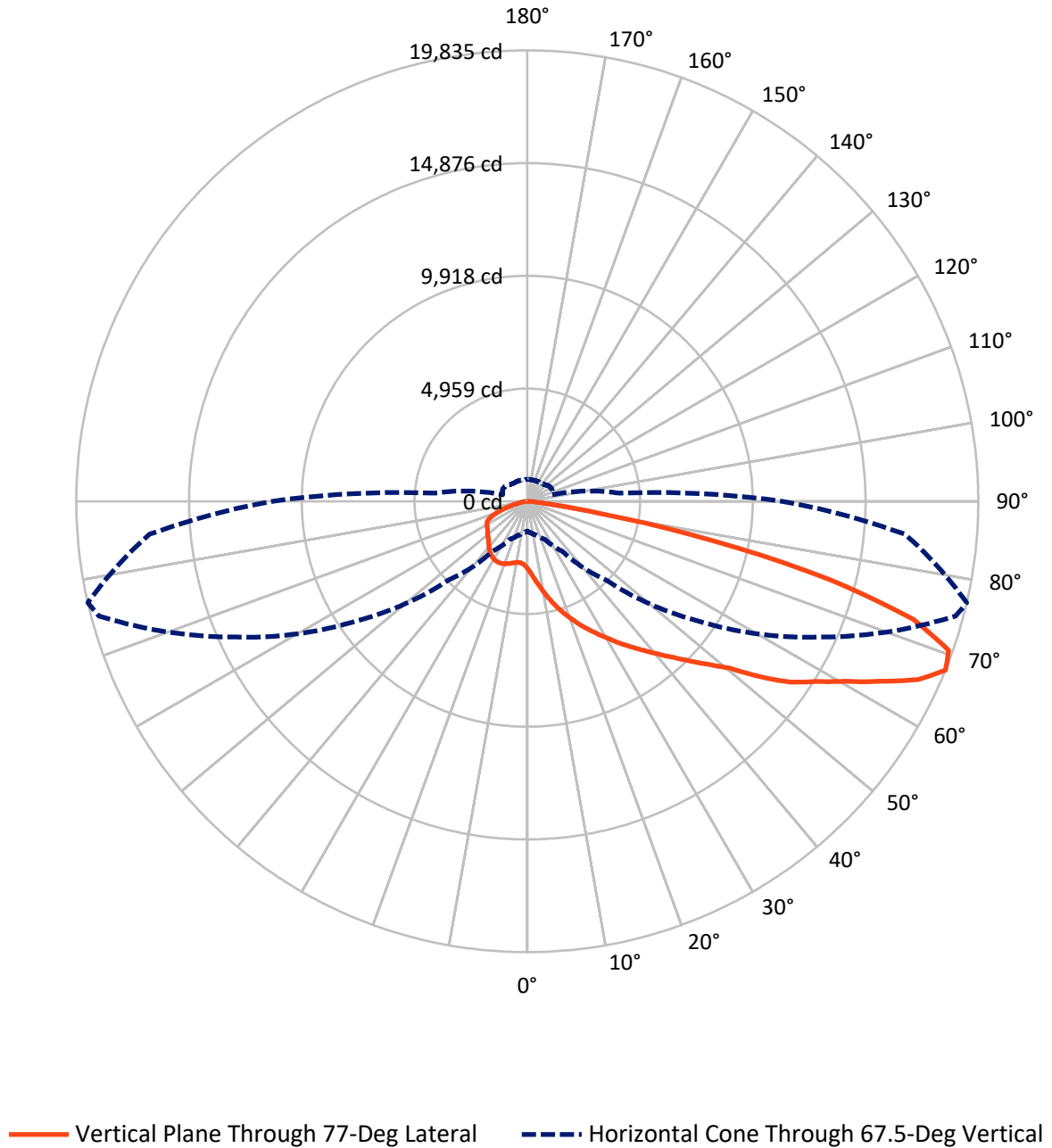
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	4782.9	0.0	4782.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	20502.1	0.0	20502.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	25285.0	0.0	25285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.0	1.3
10°-20°	1142.4	4.5
20°-30°	2157.0	8.5
30°-40°	3474.9	13.7
40°-50°	4753.0	18.8
50°-60°	5361.4	21.2
60°-70°	5004.2	19.8
70°-80°	2743.2	10.8
80°-90°	330.9	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°	25285.0	100.0
0°-180°	25285.0	100.0

Coefficient of Utilization



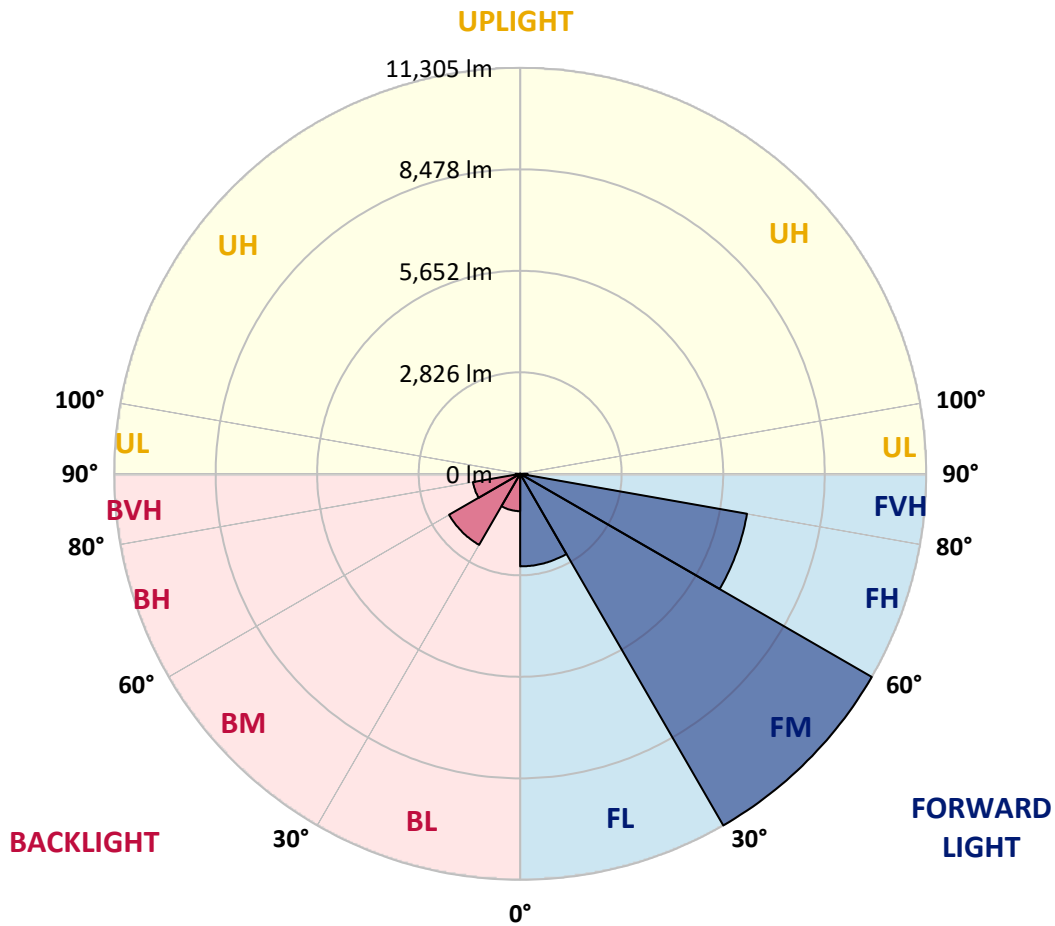
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2577.5	10.2			
FM (30°-60°)	11304.6	44.7			
FH (60°-80°)	6413.0	25.4			G3/7500
FVH (80°-90°)	206.9	0.8			G2/225
BL (0°-30°)	1039.9	4.1	B3/2500		
BM (30°-60°)	2284.7	9.0	B2/2500		
BH (60°-80°)	1334.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	124.0	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°	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7
2.5°	3714.6	3740.7	3708.1	3708.1	3598.4	3541.0	3431.4	3347.8	3197.7	3171.6
5°	4390.7	4423.3	4377.6	4358.1	4228.8	4110.1	3926.0	3744.6	3477.0	3449.6
7.5°	4914.1	4955.8	4915.4	4894.5	4779.6	4646.5	4431.1	4177.9	3800.7	3747.2
10°	5340.9	5347.4	5334.3	5342.2	5252.1	5142.5	4921.9	4626.9	4155.8	4082.7
12.5°	5582.3	5612.4	5638.5	5685.4	5669.8	5601.9	5403.5	5051.1	4531.6	4437.7
15°	5695.9	5748.1	5806.8	5915.2	6002.6	6019.6	5868.2	5506.6	4914.1	4800.5
17.5°	5736.3	5785.9	5878.6	6035.2	6223.2	6349.8	6281.9	5949.1	5292.6	5162.1
20°	5941.3	5955.6	6011.7	6160.5	6364.1	6574.3	6625.2	6374.6	5667.2	5519.7
22.5°	6379.8	6351.1	6366.8	6434.6	6580.8	6784.4	6900.6	6750.5	6052.2	5882.5
25°	7104.2	7020.7	6937.1	6858.8	6933.2	7048.1	7179.9	7126.4	6455.5	6240.2
27.5°	8019.1	7917.3	7733.3	7476.2	7386.1	7426.6	7485.3	7474.9	6828.8	6610.8
30°	8919.7	8801.0	8581.7	8209.7	7972.2	7865.1	7820.7	7790.7	7234.7	7002.4
32.5°	9638.9	9544.9	9329.6	8913.2	8568.6	8385.9	8238.4	8131.4	7658.9	7426.6
35°	10268.0	10180.5	9933.9	9479.7	9105.1	8910.6	8717.4	8489.0	8100.1	7865.1
37.5°	10842.3	10754.8	10416.8	9944.3	9567.1	9432.7	9260.4	8872.7	8542.5	8320.6
40°	11205.1	11185.6	10869.7	10334.6	9943.0	9876.4	9819.0	9317.8	9033.3	8827.1
42.5°	11297.8	11340.9	11090.3	10650.4	10277.1	10223.6	10358.1	9821.6	9584.1	9387.0
45°	11074.6	11198.6	11034.1	10735.3	10514.7	10486.0	10835.8	10372.4	10193.6	10013.5
47.5°	10509.5	10719.6	10651.7	10610.0	10578.6	10702.6	11256.0	10957.1	10884.0	10727.4
50°	9368.7	9766.8	9885.6	10149.2	10452.0	10871.0	11638.5	11595.4	11690.7	11532.7
52.5°	7396.6	7944.7	8633.9	9294.3	10063.1	10814.9	12058.7	12511.6	12913.6	12827.5
55°	6105.7	6352.4	6882.3	8093.5	9308.7	10578.6	12248.0	13251.7	14127.5	14050.5
57.5°	5113.8	5334.3	5660.6	6672.2	8167.9	10042.2	12365.4	13703.3	14958.9	14951.0
60°	4050.0	4283.7	4617.8	5334.3	6835.3	9115.5	12339.3	14217.5	16020.0	16085.3
62.5°	2849.2	3106.4	3477.0	4145.3	5474.0	7914.7	11806.8	14589.5	17269.1	17446.6
65°	1873.0	2042.6	2321.9	2898.8	4078.7	6370.7	10790.1	14637.8	18605.6	18905.8
67.5°	1313.0	1378.3	1542.7	1856.0	2688.7	4885.4	9170.3	14137.9	19497.1	19835.1
70°	1024.6	1057.2	1140.7	1266.0	1688.9	3285.2	7027.2	12837.9	19306.5	19658.9
72.5°	884.9	916.2	947.6	963.2	1132.9	2028.3	4760.1	10734.0	17511.8	17750.7
75°	802.7	810.5	836.6	831.4	864.0	1315.6	2747.4	7820.7	13816.8	13734.6
77.5°	674.8	685.2	728.3	721.8	767.5	899.3	1426.6	5047.2	8957.6	8399.0
80°	571.7	576.9	623.9	616.1	667.0	651.3	728.3	2572.5	3799.4	3218.6
82.5°	198.4	245.4	476.4	490.8	509.0	394.2	420.3	1049.4	1160.3	888.8
85°	96.6	103.1	242.8	344.6	343.3	198.4	204.9	374.6	365.5	287.1
87.5°	15.7	19.6	28.7	134.4	107.0	52.2	70.5	73.1	75.7	65.3
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°
2966.7	0°	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7
3072.4	2.5°	2999.3	2934.1	2797.0	2670.4	2571.2	2476.0	2422.4	2376.8	2350.7	2345.4
3216.0	5°	3080.3	2945.8	2696.5	2486.4	2349.4	2247.6	2194.0	2160.1	2143.1	2132.7
3409.2	7.5°	3196.4	2999.3	2644.3	2405.5	2261.9	2188.8	2161.4	2156.2	2154.9	2156.2
3642.8	10°	3357.0	3086.8	2639.1	2385.9	2265.8	2225.4	2224.1	2225.4	2230.6	2231.9
3897.3	12.5°	3530.6	3176.9	2660.0	2402.9	2315.4	2293.2	2289.3	2288.0	2291.9	2294.5
4154.4	15°	3719.8	3295.6	2695.2	2439.4	2370.2	2346.7	2342.8	2335.0	2333.7	2332.4
4424.6	17.5°	3914.3	3413.1	2734.4	2478.6	2405.5	2372.9	2358.5	2340.2	2325.9	2321.9
4703.9	20°	4111.4	3529.3	2761.8	2498.1	2408.1	2362.4	2333.7	2302.4	2277.6	2263.2
4985.9	22.5°	4321.5	3650.6	2778.8	2492.9	2384.6	2321.9	2269.7	2233.2	2195.3	2170.5
5270.4	25°	4526.4	3756.4	2777.5	2465.5	2338.9	2259.3	2192.7	2145.7	2093.5	2067.4
5564.1	27.5°	4723.5	3851.6	2744.8	2417.2	2273.7	2184.9	2105.3	2049.2	1998.3	1973.5
5860.3	30°	4927.1	3931.3	2693.9	2346.7	2196.6	2098.8	2011.3	1963.0	1917.3	1893.8
6173.6	32.5°	5129.4	4004.3	2622.1	2259.3	2107.9	2013.9	1927.8	1883.4	1856.0	1856.0
6510.3	35°	5343.5	4055.3	2526.9	2157.5	2013.9	1923.9	1856.0	1829.9	1827.3	1811.6
6866.6	37.5°	5569.3	4087.9	2410.7	2053.1	1921.3	1836.4	1815.5	1784.2	1758.1	1724.2
7258.2	40°	5806.8	4120.5	2271.0	1944.7	1823.4	1776.4	1767.2	1725.5	1651.1	1567.5
7702.0	42.5°	6095.3	4142.7	2126.2	1836.4	1720.3	1704.6	1717.6	1645.9	1527.1	1464.4
8237.1	45°	6429.4	4179.2	1993.0	1729.4	1614.5	1614.5	1669.3	1575.4	1477.5	1438.3
8847.9	47.5°	6862.7	4264.1	1869.0	1611.9	1516.6	1542.7	1562.3	1490.5	1435.7	1387.4
9591.9	50°	7489.2	4467.7	1741.1	1493.1	1442.2	1494.5	1467.0	1425.3	1361.3	1322.2
10774.4	52.5°	8267.1	4587.8	1627.6	1386.1	1378.3	1430.5	1391.3	1352.2	1303.9	1251.7
11671.1	55°	8797.0	4610.0	1532.3	1307.8	1335.2	1330.0	1315.6	1280.4	1254.3	1185.1
12556.0	57.5°	9389.6	4654.3	1454.0	1260.8	1307.8	1250.4	1245.2	1215.1	1181.2	1134.2
13635.4	60°	10098.3	4723.5	1386.1	1242.5	1284.3	1198.2	1172.1	1160.3	1126.4	1102.9
14934.1	62.5°	10871.0	4786.2	1316.9	1245.2	1256.9	1147.3	1108.1	1104.2	1083.3	1075.5
16153.1	65°	11398.3	4615.2	1230.8	1242.5	1213.8	1095.1	1045.5	1044.2	1027.2	1024.6
16681.7	67.5°	11214.3	4073.5	1114.6	1206.0	1169.5	1042.9	988.0	982.8	960.6	961.9
16129.6	70°	10292.8	3300.8	954.1	1115.9	1114.6	995.9	928.0	911.0	881.0	886.2
14024.4	72.5°	8564.7	2445.9	738.7	965.8	1027.2	952.8	858.8	831.4	793.6	798.8
10352.8	75°	6185.3	1662.8	537.7	734.8	894.1	901.9	791.0	744.0	698.3	706.1
5762.5	77.5°	3165.1	942.4	395.5	506.4	702.2	819.7	729.6	667.0	656.5	729.6
1661.5	80°	1032.4	472.5	274.1	355.0	460.7	670.9	639.5	567.8	565.2	582.1
348.5	82.5°	308.0	199.7	176.2	233.6	254.5	514.2	552.1	429.4	369.4	388.9
116.2	85°	105.7	96.6	100.5	116.2	121.4	301.5	386.3	284.5	268.9	296.3
26.1	87.5°	24.8	33.9	28.7	26.1	26.1	73.1	150.1	118.8	164.5	109.6
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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180°
2966.7
2345.4
2131.4
2160.1
2233.2
2295.8
2331.1
2325.9
2268.4
2171.9
2067.4
1972.2
1892.5
1857.3
1807.7
1718.9
1555.8
1465.7
1444.9
1386.1
1318.3
1241.2
1186.4
1118.6
1109.4
1075.5
1023.3
961.9
891.5
797.5
708.7
719.2
499.9
402.0
292.4
105.7
0.0

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