

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: P956520

Luminaire Tested: **GALN-SB9A-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956520
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-SB9A-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25331 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

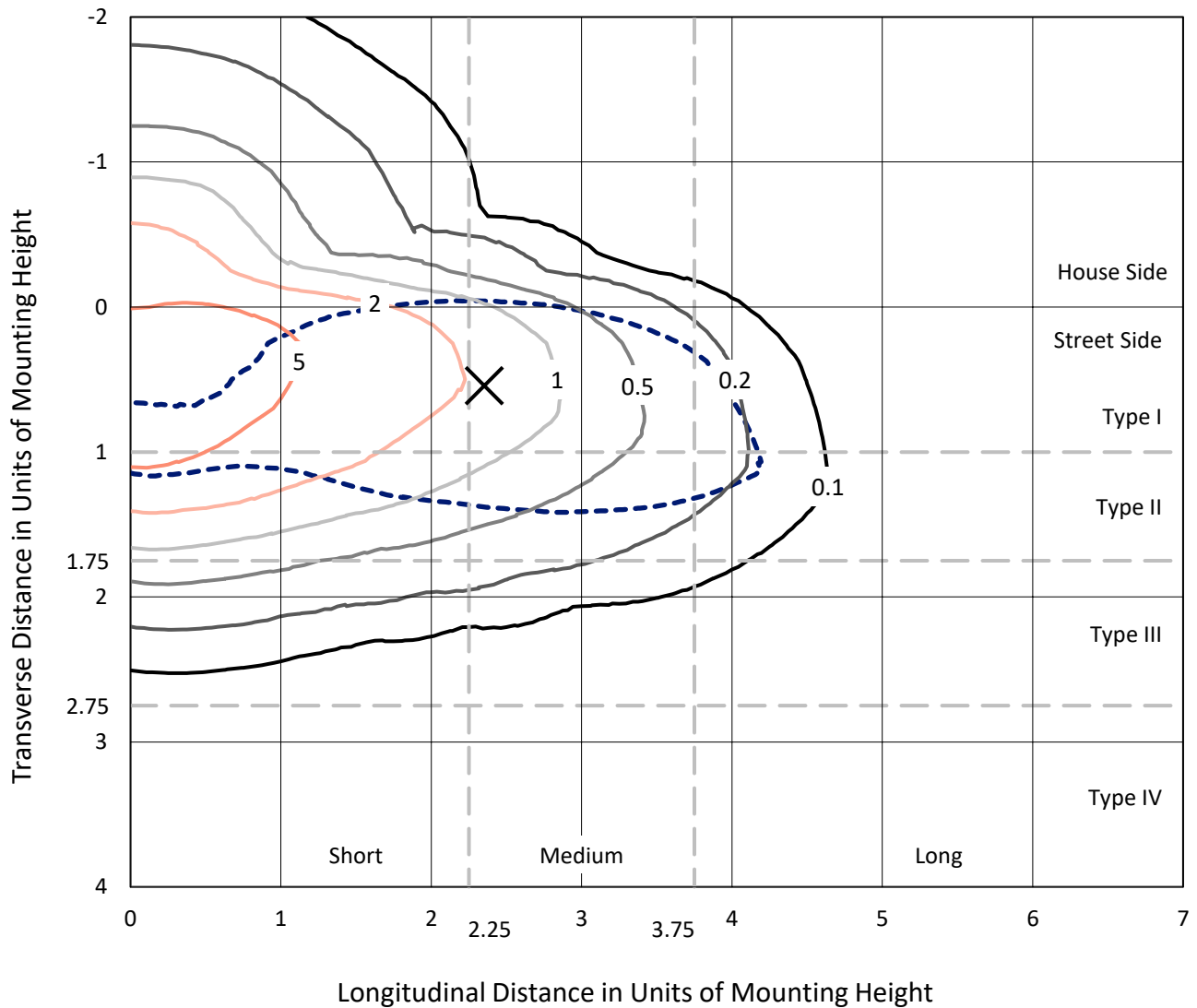
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

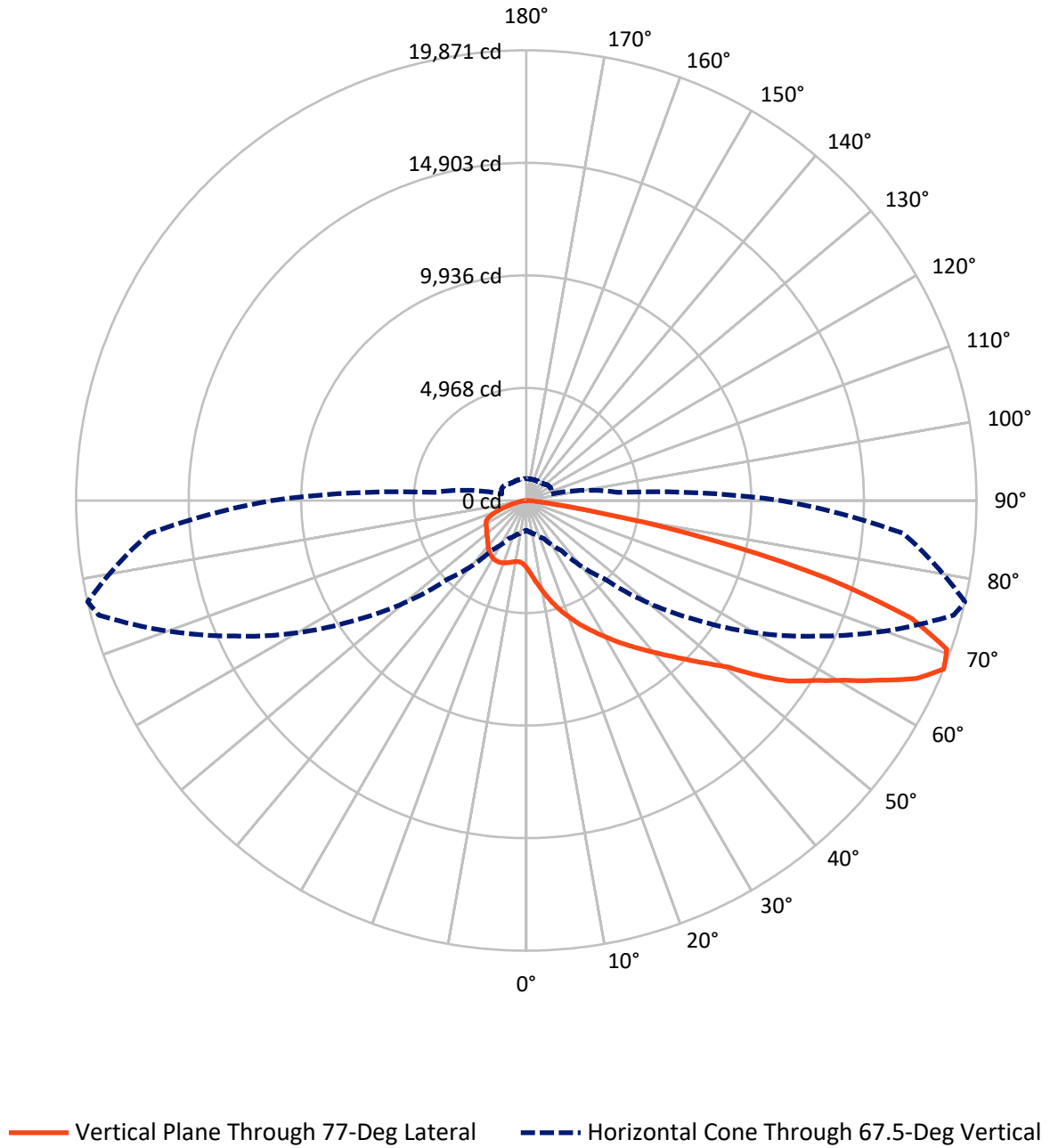
✕ Max cd
 - - - 1/2 Max cd



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	4791.6	0.0	4791.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	20539.4	0.0	20539.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	25331.0	0.0	25331.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.6	1.3
10°-20°	1144.5	4.5
20°-30°	2160.9	8.5
30°-40°	3481.2	13.7
40°-50°	4761.7	18.8
50°-60°	5371.2	21.2
60°-70°	5013.3	19.8
70°-80°	2748.2	10.8
80°-90°	331.5	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°	25331.0	100.0
0°-180°	25331.0	100.0



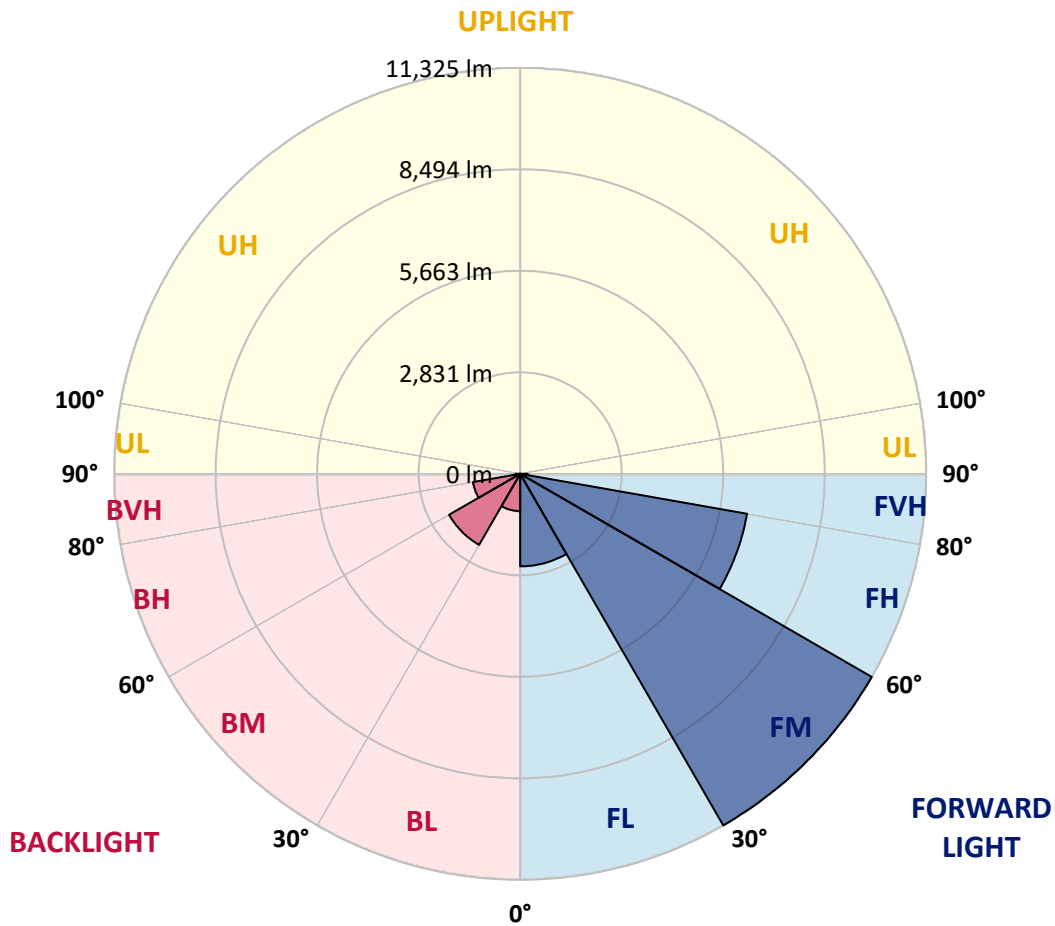
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2582.2	10.2			
FM (30°-60°)	11325.2	44.7			
FH (60°-80°)	6424.7	25.4			G3/7500
FVH (80°-90°)	207.3	0.8			G2/225
BL (0°-30°)	1041.8	4.1	B3/2500		
BM (30°-60°)	2288.8	9.0	B2/2500		
BH (60°-80°)	1336.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	124.2	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°	2972.1	2972.1	2972.1	2972.1	2972.1	2972.1	2972.1	2972.1	2972.1	2972.1
2.5°	3721.4	3747.5	3714.8	3714.8	3605.0	3547.4	3437.6	3353.9	3203.6	3177.4
5°	4398.7	4431.4	4385.6	4366.0	4236.5	4117.5	3933.2	3751.4	3483.4	3455.9
7.5°	4923.0	4964.9	4924.3	4903.4	4788.3	4655.0	4439.2	4185.5	3807.7	3754.0
10°	5350.6	5357.1	5344.1	5351.9	5261.7	5151.8	4930.9	4635.3	4163.3	4090.1
12.5°	5592.5	5622.6	5648.7	5695.8	5680.1	5612.1	5413.4	5060.3	4539.9	4445.7
15°	5706.2	5758.6	5817.4	5925.9	6013.5	6030.5	5878.8	5516.7	4923.0	4809.3
17.5°	5746.8	5796.5	5889.3	6046.2	6234.5	6361.3	6293.3	5959.9	5302.2	5171.5
20°	5952.1	5966.5	6022.7	6171.7	6375.7	6586.2	6637.2	6386.2	5677.5	5529.7
22.5°	6391.4	6362.6	6378.3	6446.3	6592.8	6796.8	6913.1	6762.8	6063.2	5893.2
25°	7117.1	7033.4	6949.8	6871.3	6945.8	7060.9	7193.0	7139.3	6467.3	6251.5
27.5°	8033.7	7931.7	7747.4	7489.8	7399.6	7440.1	7498.9	7488.5	6841.2	6622.9
30°	8936.0	8817.0	8597.3	8224.6	7986.7	7879.4	7835.0	7804.9	7247.9	7015.1
32.5°	9656.4	9562.3	9346.5	8929.4	8584.2	8401.2	8253.4	8146.2	7672.8	7440.1
35°	10286.7	10199.1	9951.9	9496.9	9121.6	8926.8	8733.3	8504.5	8114.8	7879.4
37.5°	10862.0	10774.4	10435.7	9962.4	9584.5	9449.8	9277.2	8888.9	8558.1	8335.8
40°	11225.5	11205.9	10889.5	10353.4	9961.1	9894.4	9836.9	9334.8	9049.7	8843.1
42.5°	11318.4	11361.5	11110.4	10669.8	10295.8	10242.2	10376.9	9839.5	9601.5	9404.1
45°	11094.8	11219.0	11054.2	10754.8	10533.8	10505.0	10855.5	10391.3	10212.1	10031.7
47.5°	10528.6	10739.1	10671.1	10629.3	10597.9	10722.1	11276.5	10977.1	10903.9	10746.9
50°	9385.8	9784.6	9903.6	10167.7	10471.0	10890.8	11659.6	11616.5	11711.9	11553.7
52.5°	7410.0	7959.2	8649.6	9311.2	10081.4	10834.5	12080.7	12534.4	12937.1	12850.8
55°	6116.8	6364.0	6894.8	8108.3	9325.6	10597.9	12270.3	13275.8	14153.2	14076.0
57.5°	5123.1	5344.1	5670.9	6684.3	8182.8	10060.5	12387.9	13728.2	14986.1	14978.2
60°	4057.4	4291.5	4626.2	5344.1	6847.8	9132.1	12361.8	14243.4	16049.2	16114.5
62.5°	2854.4	3112.0	3483.4	4152.9	5484.0	7929.1	11828.3	14616.1	17300.5	17478.3
65°	1876.4	2046.4	2326.2	2904.1	4086.2	6382.3	10809.7	14664.4	18639.5	18940.2
67.5°	1315.4	1380.8	1545.6	1859.4	2693.6	4894.2	9187.0	14163.6	19532.5	19871.2
70°	1026.4	1059.1	1142.8	1268.3	1692.0	3291.2	7040.0	12861.3	19341.6	19694.7
72.5°	886.5	917.9	949.3	965.0	1135.0	2032.0	4768.7	10753.5	17543.7	17783.0
75°	804.2	812.0	838.2	832.9	865.6	1318.0	2752.4	7835.0	13842.0	13759.6
77.5°	676.0	686.5	729.6	723.1	768.9	900.9	1429.2	5056.4	8973.9	8414.2
80°	572.7	577.9	625.0	617.2	668.2	652.5	729.6	2577.2	3806.3	3224.5
82.5°	198.8	245.8	477.3	491.6	510.0	394.9	421.0	1051.3	1162.4	890.5
85°	96.8	103.3	243.2	345.2	343.9	198.8	205.3	375.3	366.1	287.7
87.5°	15.7	19.6	28.8	134.7	107.2	52.3	70.6	73.2	75.8	65.4
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°
2972.1	0°	2972.1	2972.1	2972.1	2972.1	2972.1	2972.1	2972.1	2972.1	2972.1	2972.1
3078.0	2.5°	3004.8	2939.4	2802.1	2675.3	2575.9	2480.5	2426.9	2381.1	2354.9	2349.7
3221.9	5°	3085.9	2951.2	2701.4	2490.9	2353.6	2251.6	2198.0	2164.0	2147.0	2136.6
3415.4	7.5°	3202.2	3004.8	2649.1	2409.9	2266.0	2192.8	2165.3	2160.1	2158.8	2160.1
3649.4	10°	3363.1	3092.4	2643.9	2390.2	2269.9	2229.4	2228.1	2229.4	2234.6	2235.9
3904.4	12.5°	3537.0	3182.6	2664.8	2407.2	2319.6	2297.4	2293.5	2292.2	2296.1	2298.7
4162.0	15°	3726.6	3301.6	2700.1	2443.9	2374.6	2351.0	2347.1	2339.2	2337.9	2336.6
4432.7	17.5°	3921.4	3419.3	2739.4	2483.1	2409.9	2377.2	2362.8	2344.5	2330.1	2326.2
4712.5	20°	4118.9	3535.7	2766.8	2502.7	2412.5	2366.7	2337.9	2306.6	2281.7	2267.3
4994.9	22.5°	4329.4	3657.3	2783.8	2497.5	2388.9	2326.2	2273.9	2237.3	2199.3	2174.5
5280.0	25°	4534.7	3763.2	2782.5	2470.0	2343.2	2263.4	2196.7	2149.6	2097.3	2071.2
5574.2	27.5°	4732.1	3858.6	2749.8	2421.6	2277.8	2188.9	2109.1	2052.9	2001.9	1977.1
5871.0	30°	4936.1	3938.4	2698.8	2351.0	2200.6	2102.6	2015.0	1966.6	1920.8	1897.3
6184.8	32.5°	5138.8	4011.6	2626.9	2263.4	2111.7	2017.6	1931.3	1886.8	1859.4	1859.4
6522.2	35°	5353.2	4062.6	2531.5	2161.4	2017.6	1927.4	1859.4	1833.2	1830.6	1814.9
6879.1	37.5°	5579.4	4095.3	2415.1	2056.8	1924.7	1839.8	1818.8	1787.5	1761.3	1727.3
7271.4	40°	5817.4	4128.0	2275.2	1948.3	1826.7	1779.6	1770.5	1728.6	1654.1	1570.4
7716.0	42.5°	6106.4	4150.2	2130.0	1839.8	1723.4	1707.7	1720.8	1648.8	1529.9	1467.1
8252.1	45°	6441.1	4186.8	1996.7	1732.5	1617.5	1617.5	1672.4	1578.2	1480.2	1440.9
8864.0	47.5°	6875.2	4271.8	1872.4	1614.9	1519.4	1545.6	1565.2	1493.2	1438.3	1390.0
9609.4	50°	7502.9	4475.8	1744.3	1495.9	1444.9	1497.2	1469.7	1427.9	1363.8	1324.6
10794.0	52.5°	8282.2	4596.1	1630.5	1388.6	1380.8	1433.1	1393.9	1354.6	1306.3	1254.0
11692.3	55°	8813.0	4618.3	1535.1	1310.2	1337.6	1332.4	1318.0	1282.7	1256.6	1187.3
12578.9	57.5°	9406.7	4662.8	1456.6	1263.1	1310.2	1252.7	1247.4	1217.4	1183.4	1136.3
13660.2	60°	10116.7	4732.1	1388.6	1244.8	1286.7	1200.4	1174.2	1162.4	1128.4	1104.9
14961.2	62.5°	10890.8	4794.9	1319.3	1247.4	1259.2	1149.4	1110.1	1106.2	1085.3	1077.4
16182.5	65°	11419.0	4623.6	1233.0	1244.8	1216.0	1097.1	1047.4	1046.1	1029.1	1026.4
16712.1	67.5°	11234.7	4080.9	1116.7	1208.2	1171.6	1044.8	989.8	984.6	962.4	963.7
16159.0	70°	10311.5	3306.9	955.8	1118.0	1116.7	997.7	929.7	912.7	882.6	887.8
14049.9	72.5°	8580.3	2450.4	740.1	967.6	1029.1	954.5	860.4	832.9	795.0	800.2
10371.7	75°	6196.6	1665.8	538.7	736.2	895.7	903.5	792.4	745.3	699.6	707.4
5772.9	77.5°	3170.9	944.1	396.2	507.3	703.5	821.2	730.9	668.2	657.7	730.9
1664.5	80°	1034.3	473.3	274.6	355.7	461.6	672.1	640.7	568.8	566.2	583.2
349.1	82.5°	308.6	200.1	176.5	234.1	255.0	515.2	553.1	430.2	370.0	389.7
116.4	85°	105.9	96.8	100.7	116.4	121.6	302.0	387.0	285.1	269.4	296.8
26.2	87.5°	24.8	34.0	28.8	26.2	26.2	73.2	150.4	119.0	164.8	109.8
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>
2972.1
2349.7
2135.3
2164.0
2237.3
2300.0
2335.3
2330.1
2272.6
2175.8
2071.2
1975.7
1896.0
1860.7
1811.0
1722.1
1558.6
1468.4
1447.5
1388.6
1320.6
1243.5
1188.6
1120.6
1111.4
1077.4
1025.1
963.7
893.1
798.9
710.0
720.5
500.8
402.7
292.9
105.9
0.0

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