

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: P948918

Luminaire Tested: **GALN-SB3D-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948918
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-SB3D-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 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: 27042 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

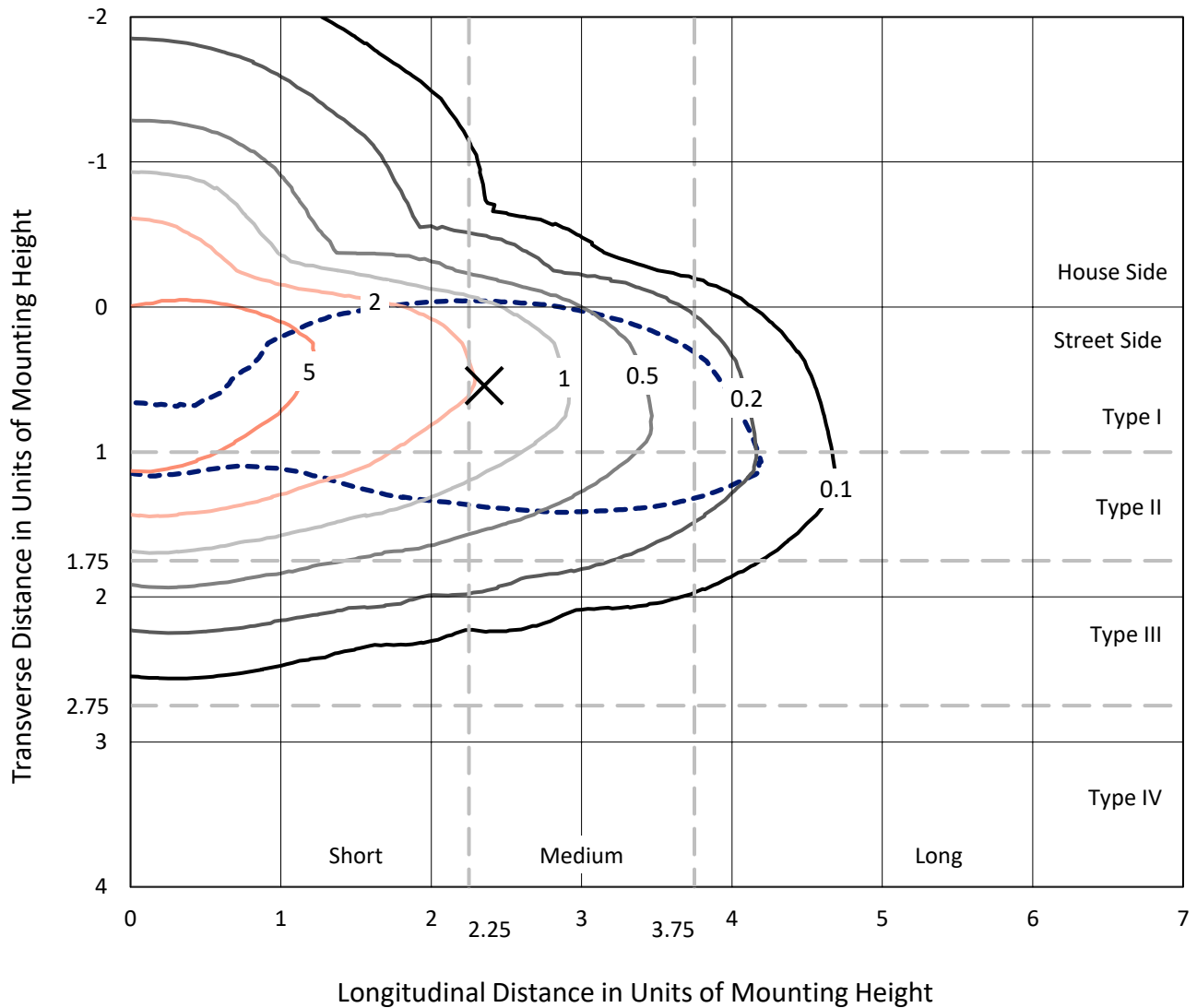
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

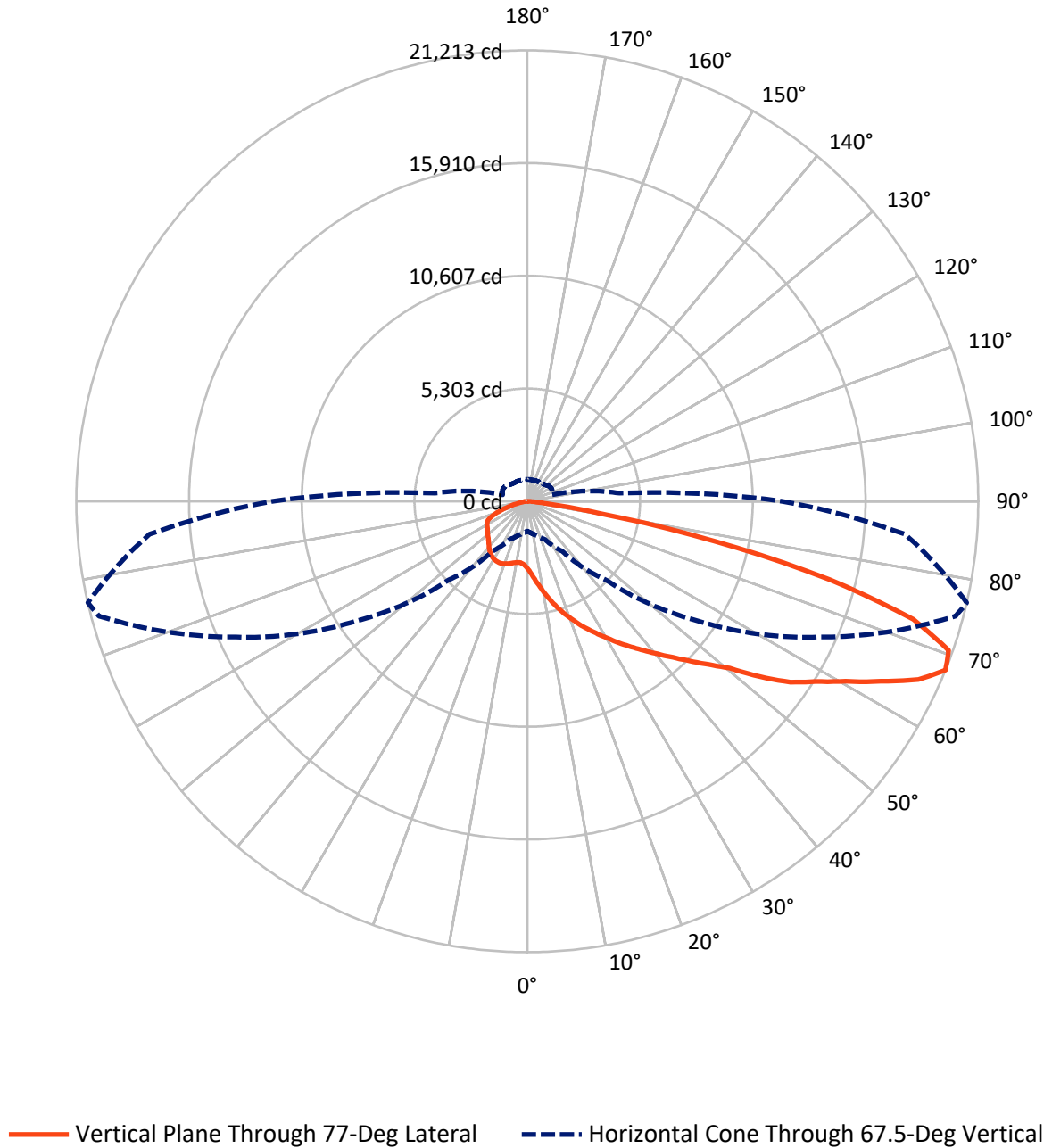
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	5115.3	0.0	5115.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	21926.7	0.0	21926.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	27042.0	0.0	27042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.1	1.3
10°-20°	1221.8	4.5
20°-30°	2306.9	8.5
30°-40°	3716.3	13.7
40°-50°	5083.3	18.8
50°-60°	5734.0	21.2
60°-70°	5352.0	19.8
70°-80°	2933.8	10.8
80°-90°	353.9	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°	27042.0	100.0
0°-180°	27042.0	100.0

Coefficient of Utilization



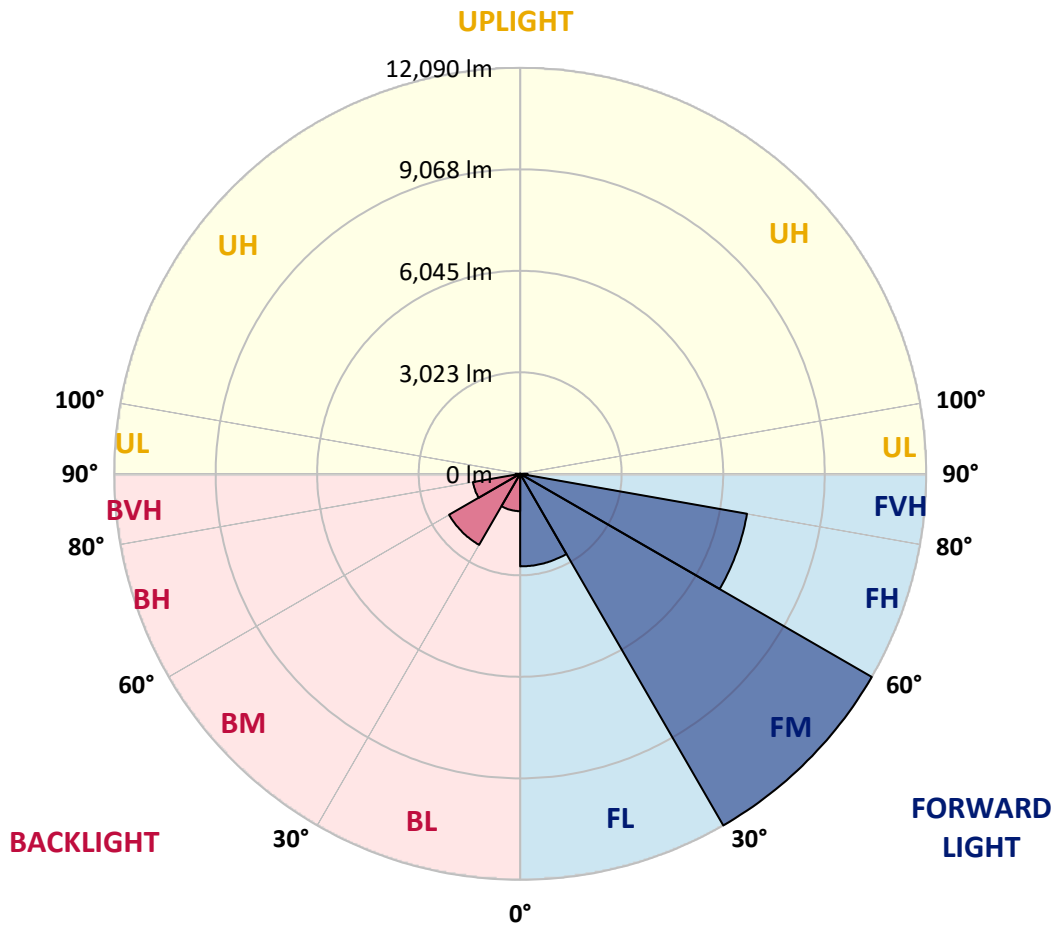
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2756.6	10.2			
FM (30°-60°)	12090.2	44.7			
FH (60°-80°)	6858.7	25.4			G3/7500
FVH (80°-90°)	221.3	0.8			G2/225
BL (0°-30°)	1112.2	4.1	B3/2500		
BM (30°-60°)	2443.4	9.0	B2/2500		
BH (60°-80°)	1427.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	132.6	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°	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9
2.5°	3972.7	4000.6	3965.7	3965.7	3848.5	3787.1	3669.8	3580.5	3419.9	3392.0
5°	4695.8	4730.7	4681.8	4660.9	4522.7	4395.7	4198.8	4004.8	3718.7	3689.3
7.5°	5255.5	5300.2	5256.9	5234.6	5111.8	4969.4	4739.1	4468.3	4064.8	4007.6
10°	5712.0	5719.0	5705.0	5713.4	5617.1	5499.8	5263.9	4948.4	4444.5	4366.4
12.5°	5970.2	6002.3	6030.3	6080.5	6063.8	5991.2	5779.0	5402.1	4846.5	4746.0
15°	6091.7	6147.5	6210.3	6326.2	6419.7	6437.9	6275.9	5889.3	5255.5	5134.1
17.5°	6135.0	6188.0	6287.1	6454.6	6655.6	6791.0	6718.4	6362.5	5660.3	5520.8
20°	6354.1	6369.5	6429.5	6588.6	6806.4	7031.1	7085.6	6817.5	6061.0	5903.2
22.5°	6823.1	6792.4	6809.2	6881.8	7038.1	7255.9	7380.1	7219.6	6472.8	6291.3
25°	7597.9	7508.5	7419.2	7335.4	7415.0	7537.8	7678.8	7621.6	6904.1	6673.8
27.5°	8576.4	8467.5	8270.7	7995.7	7899.4	7942.6	8005.5	7994.3	7303.3	7070.2
30°	9539.5	9412.5	9178.0	8780.2	8526.1	8411.7	8364.2	8332.1	7737.4	7489.0
32.5°	10308.7	10208.2	9977.8	9532.6	9164.0	8968.6	8810.9	8696.4	8191.1	7942.6
35°	10981.5	10888.0	10624.1	10138.4	9737.8	9529.8	9323.2	9078.9	8662.9	8411.7
37.5°	11595.7	11502.2	11140.6	10635.3	10231.9	10088.1	9903.9	9489.3	9136.1	8898.8
40°	11983.7	11962.8	11625.0	11052.7	10633.9	10562.7	10501.3	9965.3	9661.0	9440.4
42.5°	12082.9	12128.9	11860.9	11390.5	10991.3	10934.0	11077.8	10504.1	10250.0	10039.3
45°	11844.2	11976.8	11800.9	11481.2	11245.3	11214.6	11588.7	11093.2	10901.9	10709.3
47.5°	11239.7	11464.5	11391.9	11347.2	11313.7	11446.3	12038.2	11718.5	11640.4	11472.9
50°	10019.7	10445.5	10572.5	10854.5	11178.3	11626.4	12447.2	12401.1	12503.0	12334.1
52.5°	7910.5	8496.8	9233.8	9940.2	10762.3	11566.4	12896.7	13381.0	13811.0	13718.8
55°	6530.0	6793.8	7360.5	8655.9	9955.5	11313.7	13099.1	14172.5	15109.2	15026.8
57.5°	5469.1	5705.0	6054.0	7135.8	8735.5	10740.0	13224.7	14655.5	15998.3	15990.0
60°	4331.5	4581.3	4938.7	5705.0	7310.3	9748.9	13196.8	15205.5	17133.2	17203.0
62.5°	3047.2	3322.2	3718.7	4433.4	5854.4	8464.7	12627.3	15603.3	18469.1	18658.9
65°	2003.1	2184.6	2483.3	3100.3	4362.2	6813.4	11539.9	15654.9	19898.5	20219.5
67.5°	1404.3	1474.1	1649.9	1985.0	2875.5	5224.8	9807.6	15120.3	20851.9	21213.4
70°	1095.8	1130.7	1220.0	1354.0	1806.3	3513.5	7515.5	13730.0	20648.1	21025.0
72.5°	946.4	979.9	1013.4	1030.2	1211.6	2169.2	5090.8	11479.8	18728.7	18984.2
75°	858.5	866.9	894.8	889.2	924.1	1407.1	2938.4	8364.2	14776.9	14689.0
77.5°	721.7	732.8	778.9	771.9	820.8	961.8	1525.7	5397.9	9580.0	8982.6
80°	611.4	617.0	667.2	658.9	713.3	696.6	778.9	2751.3	4063.4	3442.3
82.5°	212.2	262.4	509.5	524.9	544.4	421.6	449.5	1122.3	1240.9	950.6
85°	103.3	110.3	259.6	368.5	367.1	212.2	219.2	400.6	390.9	307.1
87.5°	16.8	20.9	30.7	143.8	114.5	55.8	75.4	78.2	81.0	69.8
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°
3172.9	0°	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9
3285.9	2.5°	3207.8	3138.0	2991.4	2856.0	2749.9	2648.0	2590.8	2541.9	2514.0	2508.4
3439.5	5°	3294.3	3150.5	2883.9	2659.2	2512.6	2403.7	2346.5	2310.2	2292.1	2280.9
3646.1	7.5°	3418.5	3207.8	2828.1	2572.6	2419.1	2340.9	2311.6	2306.0	2304.6	2306.0
3895.9	10°	3590.2	3301.3	2822.5	2551.7	2423.3	2380.0	2378.6	2380.0	2385.6	2387.0
4168.1	12.5°	3775.9	3397.6	2844.8	2569.8	2476.3	2452.6	2448.4	2447.0	2451.2	2454.0
4443.1	15°	3978.3	3524.6	2882.5	2608.9	2534.9	2509.8	2505.6	2497.3	2495.9	2494.5
4732.1	17.5°	4186.3	3650.3	2924.4	2650.8	2572.6	2537.7	2522.4	2502.8	2487.5	2483.3
5030.8	20°	4397.1	3774.5	2953.7	2671.7	2575.4	2526.6	2495.9	2462.4	2435.8	2420.5
5332.3	22.5°	4621.8	3904.3	2971.9	2666.2	2550.3	2483.3	2427.5	2388.4	2347.9	2321.4
5636.6	25°	4841.0	4017.4	2970.5	2636.8	2501.4	2416.3	2345.1	2294.8	2239.0	2211.1
5950.7	27.5°	5051.7	4119.3	2935.6	2585.2	2431.6	2336.7	2251.6	2191.6	2137.1	2110.6
6267.6	30°	5269.5	4204.4	2881.1	2509.8	2349.3	2244.6	2151.1	2099.4	2050.6	2025.4
6602.6	32.5°	5485.9	4282.6	2804.4	2416.3	2254.4	2153.9	2061.7	2014.3	1985.0	1985.0
6962.7	35°	5714.8	4337.0	2702.5	2307.4	2153.9	2057.5	1985.0	1957.0	1954.3	1937.5
7343.8	37.5°	5956.3	4371.9	2578.2	2195.7	2054.8	1964.0	1941.7	1908.2	1880.3	1844.0
7762.6	40°	6210.3	4406.8	2428.9	2079.9	1950.1	1899.8	1890.0	1845.4	1765.8	1676.5
8237.2	42.5°	6518.8	4430.6	2273.9	1964.0	1839.8	1823.0	1837.0	1760.2	1633.2	1566.2
8809.5	45°	6876.2	4469.7	2131.5	1849.6	1726.7	1726.7	1785.3	1684.8	1580.2	1538.3
9462.8	47.5°	7339.6	4560.4	1998.9	1723.9	1622.0	1649.9	1670.9	1594.1	1535.5	1483.8
10258.4	50°	8009.6	4778.1	1862.1	1596.9	1542.5	1598.3	1569.0	1524.3	1455.9	1414.0
11523.1	52.5°	8841.6	4906.6	1740.7	1482.4	1474.1	1529.9	1488.0	1446.1	1394.5	1338.7
12482.1	55°	9408.3	4930.3	1638.8	1398.7	1428.0	1422.4	1407.1	1369.4	1341.5	1267.5
13428.5	57.5°	10042.1	4977.8	1555.0	1348.4	1398.7	1337.3	1331.7	1299.6	1263.3	1213.0
14582.9	60°	10800.0	5051.7	1482.4	1328.9	1373.6	1281.4	1253.5	1240.9	1204.7	1179.5
15971.8	62.5°	11626.4	5118.7	1408.5	1331.7	1344.2	1227.0	1185.1	1180.9	1158.6	1150.2
17275.6	65°	12190.3	4935.9	1316.3	1328.9	1298.2	1171.2	1118.1	1116.7	1098.6	1095.8
17840.9	67.5°	11993.5	4356.6	1192.1	1289.8	1250.7	1115.3	1056.7	1051.1	1027.4	1028.8
17250.5	70°	11008.0	3530.2	1020.4	1193.5	1192.1	1065.1	992.5	974.3	942.2	947.8
14998.9	72.5°	9159.9	2615.9	790.1	1033.0	1098.6	1019.0	918.5	889.2	848.7	854.3
11072.2	75°	6615.1	1778.4	575.1	785.9	956.2	964.6	845.9	795.7	746.8	755.2
6162.9	77.5°	3385.0	1007.8	423.0	541.6	751.0	876.6	780.3	713.3	702.1	780.3
1777.0	80°	1104.2	505.3	293.1	379.7	492.8	717.5	684.0	607.2	604.4	622.6
372.7	82.5°	329.4	213.6	188.4	249.9	272.2	550.0	590.5	459.2	395.0	416.0
124.2	85°	113.1	103.3	107.5	124.2	129.8	322.5	413.2	304.3	287.6	316.9
27.9	87.5°	26.5	36.3	30.7	27.9	27.9	78.2	160.5	127.0	175.9	117.3
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>
3172.9
2508.4
2279.5
2310.2
2388.4
2455.4
2493.1
2487.5
2426.1
2322.8
2211.1
2109.2
2024.0
1986.4
1933.3
1838.4
1663.9
1567.6
1545.3
1482.4
1409.9
1327.5
1268.9
1196.3
1186.5
1150.2
1094.4
1028.8
953.4
852.9
758.0
769.1
534.6
429.9
312.7
113.1
0.0

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