

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: P949989

Luminaire Tested: **GALN-SB4C-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949989
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-SB4C-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26584 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

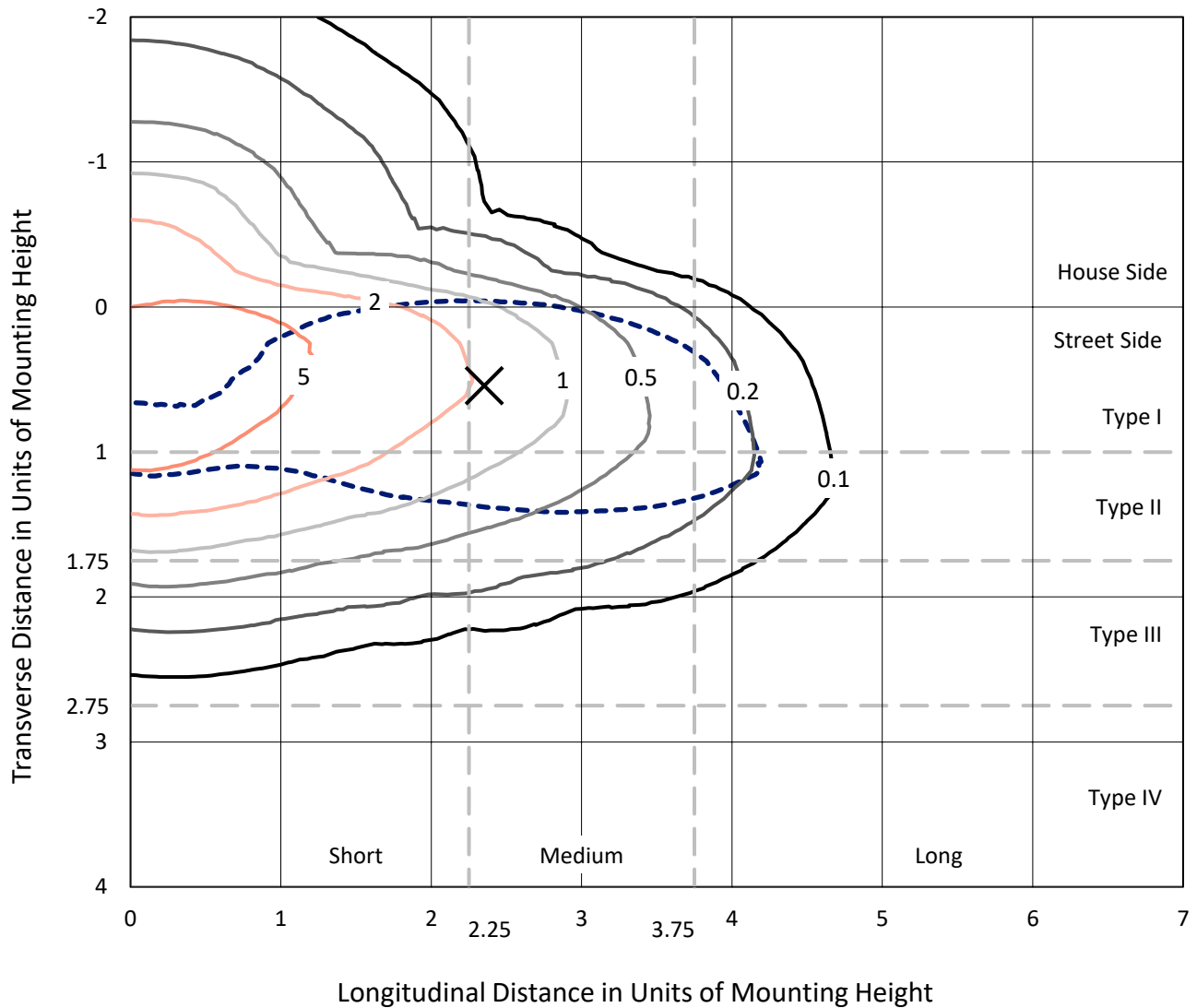
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

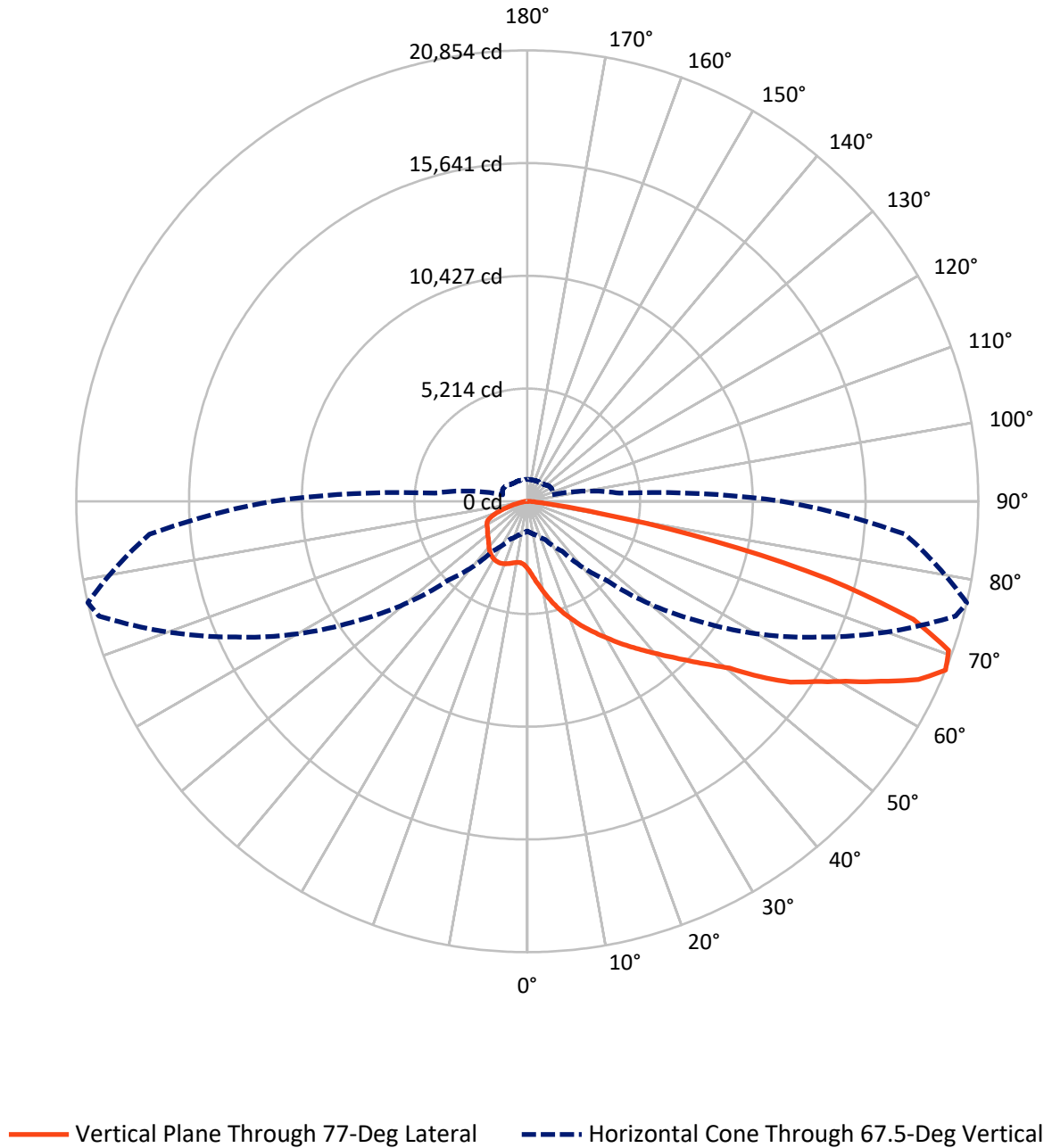
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	5028.6	0.0	5028.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	21555.4	0.0	21555.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	26584.0	0.0	26584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.3	1.3
10°-20°	1201.1	4.5
20°-30°	2267.8	8.5
30°-40°	3653.4	13.7
40°-50°	4997.2	18.8
50°-60°	5636.9	21.2
60°-70°	5261.3	19.8
70°-80°	2884.1	10.8
80°-90°	347.9	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°	26584.0	100.0
0°-180°	26584.0	100.0

Coefficient of Utilization



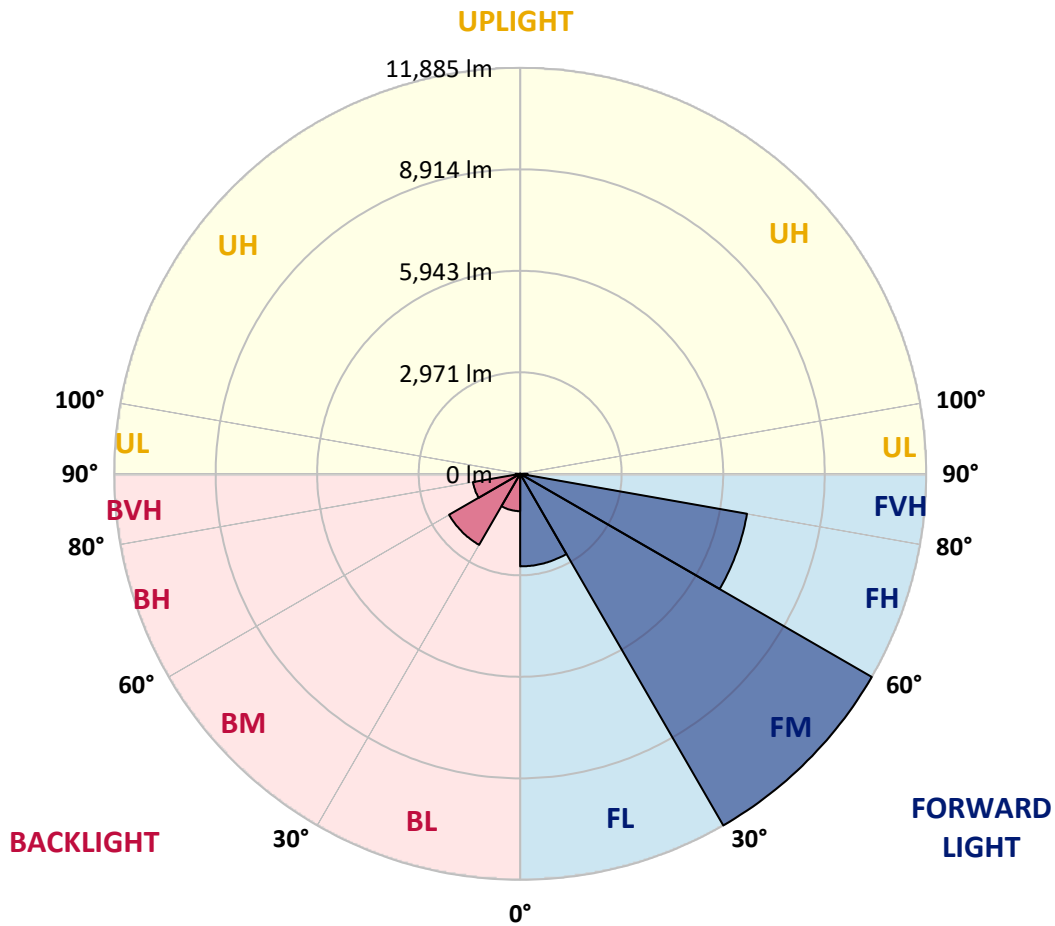
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2709.9	10.2			
FM (30°-60°)	11885.4	44.7			
FH (60°-80°)	6742.5	25.4			G3/7500
FVH (80°-90°)	217.6	0.8			G2/225
BL (0°-30°)	1093.3	4.1	B3/2500		
BM (30°-60°)	2402.1	9.0	B2/2500		
BH (60°-80°)	1402.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	130.3	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°	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1
2.5°	3905.4	3932.9	3898.6	3898.6	3783.3	3722.9	3607.7	3519.8	3362.0	3334.6
5°	4616.3	4650.6	4602.5	4581.9	4446.1	4321.2	4127.7	3937.0	3655.7	3626.9
7.5°	5166.5	5210.4	5167.9	5145.9	5025.2	4885.2	4658.8	4392.6	3996.0	3939.7
10°	5615.3	5622.1	5608.4	5616.6	5521.9	5406.7	5174.8	4864.6	4369.3	4292.4
12.5°	5869.1	5900.7	5928.1	5977.5	5961.1	5889.7	5681.1	5310.6	4764.5	4665.7
15°	5988.5	6043.4	6105.1	6219.0	6311.0	6328.8	6169.6	5789.5	5166.5	5047.1
17.5°	6031.0	6083.2	6180.6	6345.3	6542.9	6676.0	6604.6	6254.7	5564.5	5427.3
20°	6246.5	6261.6	6320.6	6477.0	6691.1	6912.0	6965.6	6702.1	5958.3	5803.3
22.5°	6707.6	6677.4	6693.8	6765.2	6918.9	7133.0	7255.1	7097.3	6363.1	6184.7
25°	7469.2	7381.3	7293.5	7211.2	7289.4	7410.2	7548.8	7492.5	6787.2	6560.7
27.5°	8431.1	8324.1	8130.6	7860.3	7765.6	7808.1	7869.9	7858.9	7179.6	6950.5
30°	9378.0	9253.1	9022.6	8631.5	8381.7	8269.2	8222.5	8191.0	7606.4	7362.1
32.5°	10134.1	10035.3	9808.9	9371.1	9008.8	8816.7	8661.7	8549.1	8052.4	7808.1
35°	10795.5	10703.6	10444.2	9966.7	9572.8	9368.4	9165.3	8925.1	8516.2	8269.2
37.5°	11399.3	11307.4	10951.9	10455.2	10058.6	9917.3	9736.1	9328.6	8981.4	8748.1
40°	11780.8	11760.2	11428.1	10865.5	10453.8	10383.8	10323.5	9796.5	9497.4	9280.5
42.5°	11878.2	11923.5	11660.0	11197.6	10805.1	10748.9	10890.2	10326.2	10076.4	9869.2
45°	11643.6	11773.9	11601.0	11286.8	11054.9	11024.7	11392.4	10905.3	10717.3	10527.9
47.5°	11049.4	11270.3	11198.9	11155.0	11122.1	11252.5	11834.3	11520.1	11443.2	11278.5
50°	9850.0	10268.6	10393.4	10670.6	10989.0	11429.5	12236.4	12191.1	12291.3	12125.2
52.5°	7776.6	8352.9	9077.4	9771.8	10580.1	11370.5	12678.2	13154.4	13577.1	13486.5
55°	6419.4	6678.8	7235.9	8509.3	9786.9	11122.1	12877.2	13932.5	14853.3	14772.3
57.5°	5376.5	5608.4	5951.5	7015.0	8587.6	10558.1	13000.7	14407.3	15727.4	15719.1
60°	4258.1	4503.7	4855.0	5608.4	7186.5	9583.8	12973.3	14947.9	16843.0	16911.6
62.5°	2995.6	3266.0	3655.7	4358.3	5755.2	8321.3	12413.4	15339.0	18156.3	18342.9
65°	1969.2	2147.6	2441.2	3047.8	4288.3	6698.0	11344.4	15389.8	19561.5	19877.1
67.5°	1380.5	1449.1	1622.0	1951.3	2826.8	5136.3	9641.4	14864.2	20498.7	20854.1
70°	1077.2	1111.5	1199.3	1331.1	1775.7	3454.0	7388.2	13497.5	20298.4	20668.9
72.5°	930.4	963.3	996.3	1012.7	1191.1	2132.5	5004.6	11285.4	18411.5	18662.6
75°	843.9	852.2	879.6	874.1	908.4	1383.2	2888.6	8222.5	14526.7	14440.2
77.5°	709.5	720.4	765.7	758.9	806.9	945.5	1499.9	5306.5	9417.8	8830.4
80°	601.0	606.5	655.9	647.7	701.2	684.8	765.7	2704.7	3994.6	3384.0
82.5°	208.6	258.0	500.9	516.0	535.2	414.4	441.9	1103.3	1219.9	934.5
85°	101.5	108.4	255.2	362.3	360.9	208.6	215.4	393.8	384.2	301.9
87.5°	16.5	20.6	30.2	141.3	112.5	54.9	74.1	76.8	79.6	68.6
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°
3119.1	0°	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1
3230.3	2.5°	3153.4	3084.8	2940.7	2807.6	2703.3	2603.2	2546.9	2498.9	2471.4	2465.9
3381.2	5°	3238.5	3097.2	2835.1	2614.1	2470.1	2363.0	2306.8	2271.1	2253.2	2242.3
3584.3	7.5°	3360.6	3153.4	2780.2	2529.1	2378.1	2301.3	2272.4	2267.0	2265.6	2267.0
3830.0	10°	3529.4	3245.4	2774.7	2508.5	2382.2	2339.7	2338.3	2339.7	2345.2	2346.6
4097.5	12.5°	3711.9	3340.1	2796.6	2526.3	2434.4	2411.0	2406.9	2405.6	2409.7	2412.4
4367.9	15°	3910.9	3464.9	2833.7	2564.7	2492.0	2467.3	2463.2	2455.0	2453.6	2452.2
4651.9	17.5°	4115.4	3588.4	2874.9	2605.9	2529.1	2494.8	2479.7	2460.4	2445.4	2441.2
4945.6	20°	4322.6	3710.6	2903.7	2626.5	2531.8	2483.8	2453.6	2420.7	2394.6	2379.5
5242.0	22.5°	4543.5	3838.2	2921.5	2621.0	2507.1	2441.2	2386.3	2347.9	2308.1	2282.1
5541.2	25°	4759.0	3949.3	2920.2	2592.2	2459.1	2375.4	2305.4	2256.0	2201.1	2173.6
5849.9	27.5°	4966.2	4049.5	2885.8	2541.4	2390.5	2297.2	2213.4	2154.4	2100.9	2074.8
6161.4	30°	5180.3	4133.2	2832.3	2467.3	2309.5	2206.6	2114.6	2063.9	2015.8	1991.1
6490.8	32.5°	5393.0	4210.1	2756.9	2375.4	2216.2	2117.4	2026.8	1980.2	1951.3	1951.3
6844.8	35°	5618.0	4263.6	2656.7	2268.3	2117.4	2022.7	1951.3	1923.9	1921.2	1904.7
7219.4	37.5°	5855.4	4297.9	2534.5	2158.6	2020.0	1930.8	1908.8	1875.9	1848.4	1812.7
7631.1	40°	6105.1	4332.2	2387.7	2044.7	1917.0	1867.6	1858.0	1814.1	1735.9	1648.1
8097.7	42.5°	6408.4	4355.5	2235.4	1930.8	1808.6	1792.2	1805.9	1730.4	1605.5	1539.7
8660.3	45°	6759.7	4394.0	2095.4	1818.2	1697.5	1697.5	1755.1	1656.3	1553.4	1512.2
9302.5	47.5°	7215.3	4483.1	1965.1	1694.7	1594.6	1622.0	1642.6	1567.1	1509.5	1458.7
10084.7	50°	7874.0	4697.2	1830.6	1569.9	1516.3	1571.2	1542.4	1498.5	1431.3	1390.1
11327.9	52.5°	8691.8	4823.5	1711.2	1457.3	1449.1	1504.0	1462.8	1421.7	1370.9	1316.0
12270.7	55°	9249.0	4846.8	1611.0	1375.0	1403.8	1398.3	1383.2	1346.2	1318.7	1246.0
13201.1	57.5°	9872.0	4893.5	1528.7	1325.6	1375.0	1314.6	1309.1	1277.6	1241.9	1192.5
14335.9	60°	10617.1	4966.2	1457.3	1306.4	1350.3	1259.7	1232.3	1219.9	1184.3	1159.6
15701.3	62.5°	11429.5	5032.0	1384.6	1309.1	1321.5	1206.2	1165.0	1160.9	1139.0	1130.7
16983.0	65°	11983.9	4852.3	1294.0	1306.4	1276.2	1151.3	1099.2	1097.8	1080.0	1077.2
17538.8	67.5°	11790.4	4282.8	1171.9	1268.0	1229.5	1096.4	1038.8	1033.3	1010.0	1011.3
16958.3	70°	10821.6	3470.4	1003.1	1173.3	1171.9	1047.0	975.7	957.8	926.3	931.8
14744.8	72.5°	9004.7	2571.6	776.7	1015.5	1080.0	1001.7	902.9	874.1	834.3	839.8
10884.7	75°	6503.1	1748.2	565.4	772.6	940.0	948.2	831.6	782.2	734.2	742.4
6058.5	77.5°	3327.7	990.8	415.8	532.4	738.3	861.8	767.1	701.2	690.2	767.1
1746.9	80°	1085.5	496.8	288.2	373.3	484.4	705.3	672.4	596.9	594.2	612.0
366.4	82.5°	323.9	210.0	185.3	245.6	267.6	540.7	580.5	451.5	388.3	408.9
122.1	85°	111.2	101.5	105.7	122.1	127.6	317.0	406.2	299.2	282.7	311.5
27.4	87.5°	26.1	35.7	30.2	27.4	27.4	76.8	157.8	124.9	172.9	115.3
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>
3119.1
2465.9
2240.9
2271.1
2347.9
2413.8
2450.8
2445.4
2385.0
2283.4
2173.6
2073.5
1989.8
1952.7
1900.6
1807.3
1635.7
1541.0
1519.1
1457.3
1386.0
1305.0
1247.4
1176.0
1166.4
1130.7
1075.8
1011.3
937.2
838.4
745.1
756.1
525.6
422.7
307.4
111.2
0.0

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