

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: P951778

Luminaire Tested: **GALN-SB5D-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45888 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

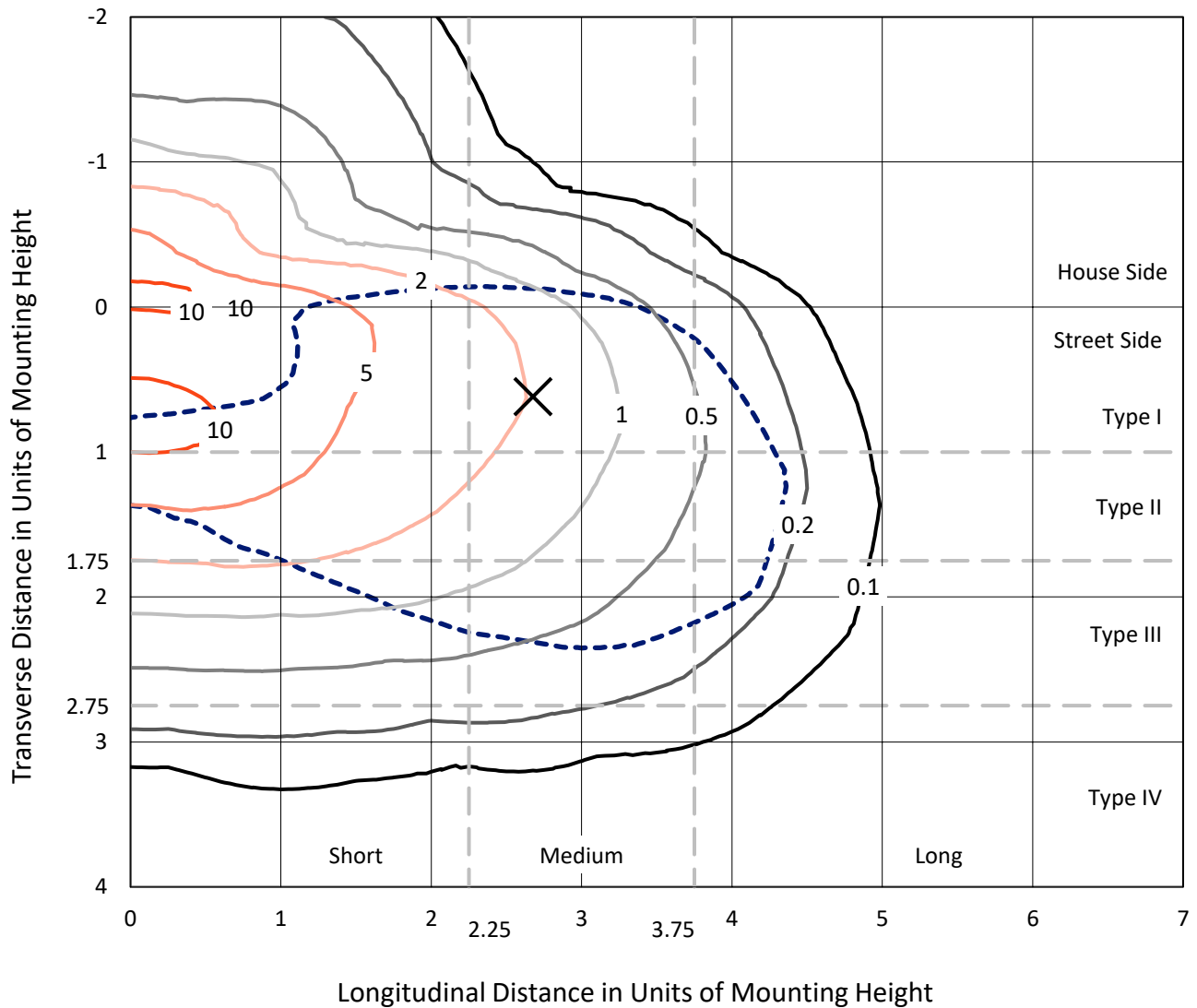
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

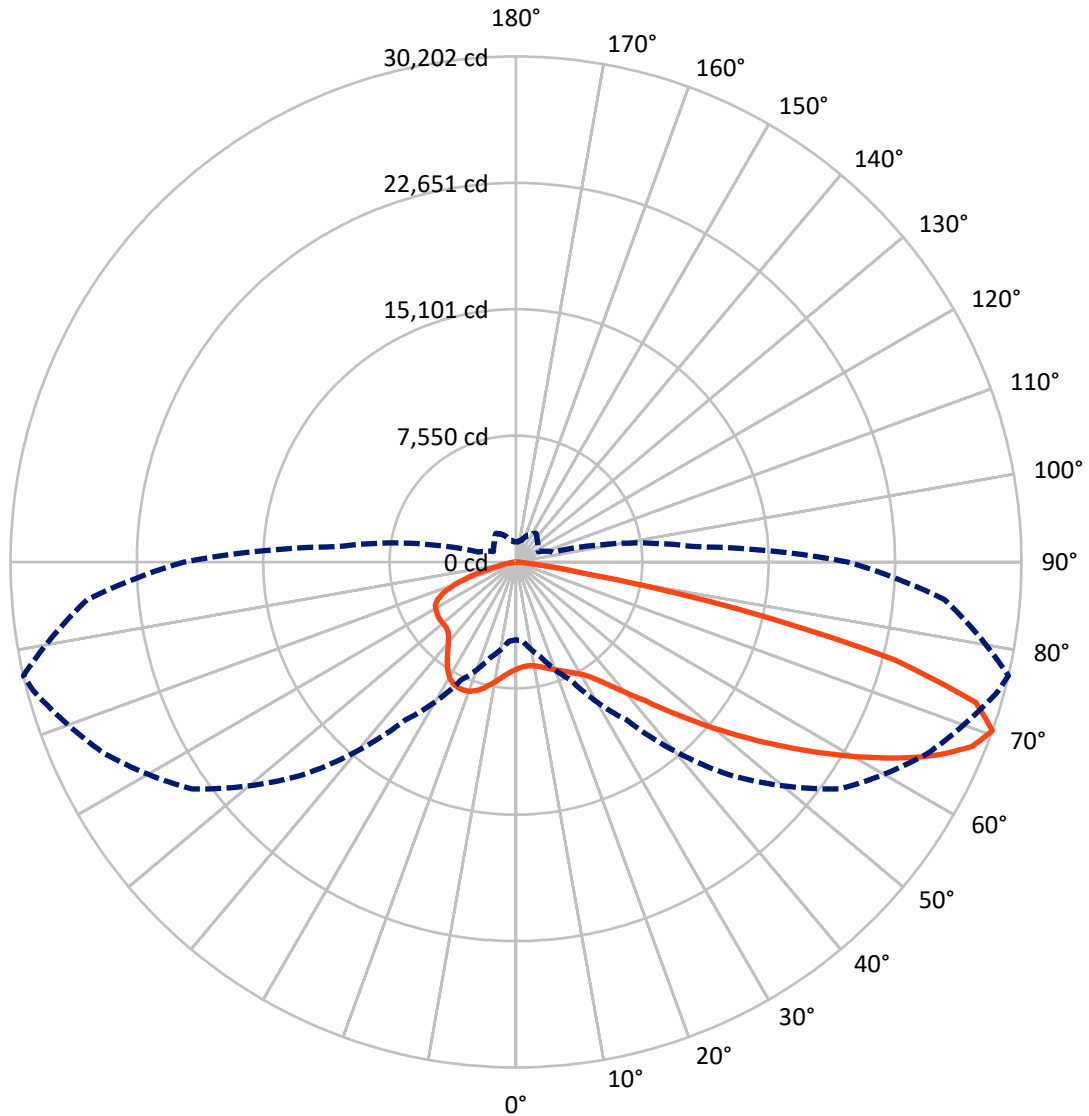
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10048.8	0.0	10048.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	35839.2	0.0	35839.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	45888.0	0.0	45888.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.6	1.3
10°-20°	1762.1	3.8
20°-30°	3013.5	6.6
30°-40°	4846.0	10.6
40°-50°	7565.9	16.5
50°-60°	10106.2	22.0
60°-70°	10771.7	23.5
70°-80°	6631.0	14.5
80°-90°	581.1	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°	45888.0	100.0
0°-180°	45888.0	100.0



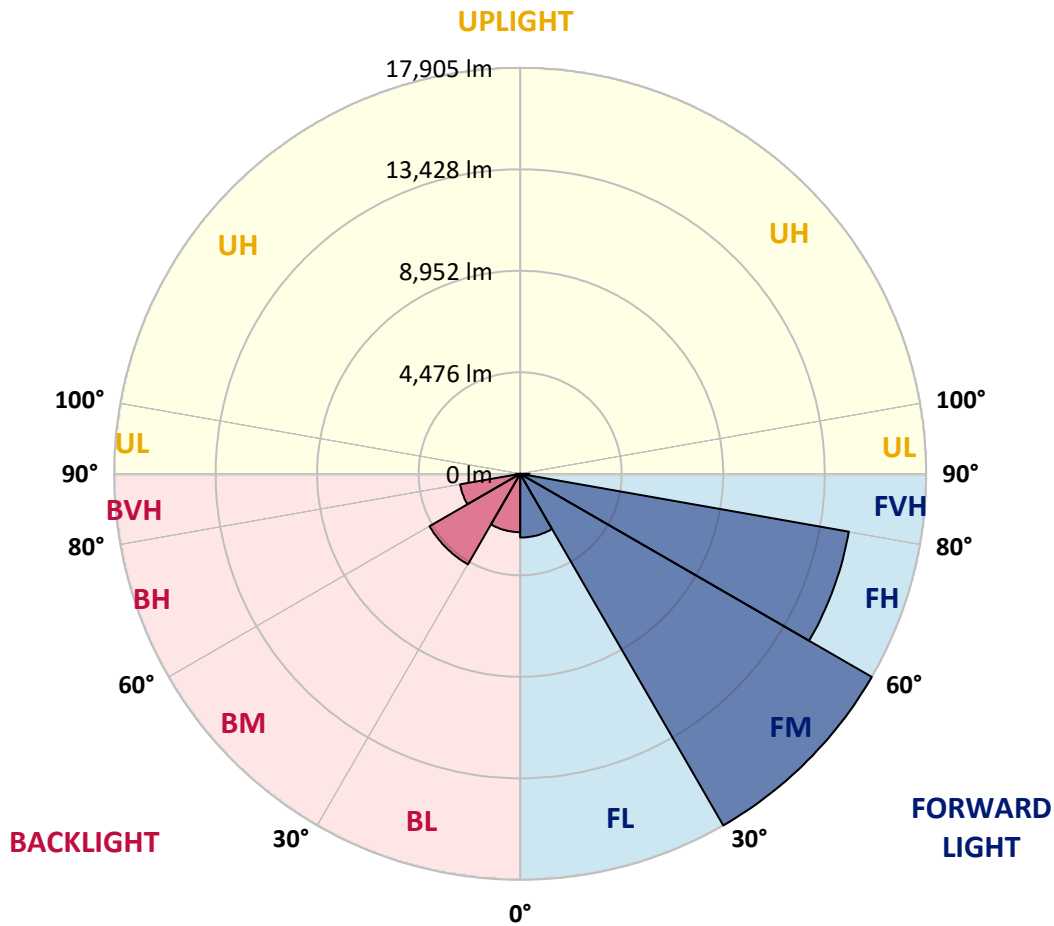
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2811.4	6.1			
FM (30°-60°)	17904.5	39.0			
FH (60°-80°)	14717.0	32.1			G5
FVH (80°-90°)	406.3	0.9			G3/500
BL (0°-30°)	2574.8	5.6	B4/5000		
BM (30°-60°)	4613.6	10.1	B3/5000		
BH (60°-80°)	2685.6	5.9	B4/5000		G4/5000
BVH (80°-90°)	174.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6401.8	6401.8	6401.8	6401.8	6401.8	6401.8	6401.8	6401.8	6401.8	6401.8
2.5°	5901.2	5898.9	5929.4	5938.8	5995.2	6035.2	6110.4	6190.3	6293.7	6305.4
5°	5560.4	5560.4	5595.7	5633.3	5706.2	5786.1	5901.2	6039.9	6218.5	6246.7
7.5°	5271.4	5290.2	5320.7	5393.6	5478.2	5593.3	5769.6	5967.0	6202.0	6246.7
10°	5038.7	5059.9	5097.5	5156.2	5283.1	5442.9	5673.2	5927.1	6242.0	6312.5
12.5°	4965.9	4987.0	5008.2	5052.8	5170.3	5358.3	5633.3	5945.9	6338.3	6408.8
15°	5135.1	5160.9	5144.5	5132.7	5193.8	5365.4	5652.1	6014.0	6458.2	6559.3
17.5°	5525.2	5534.6	5497.0	5386.5	5377.1	5468.8	5741.4	6108.0	6608.6	6719.1
20°	6155.0	6138.6	6061.0	5842.5	5717.9	5699.1	5894.2	6249.0	6763.7	6881.2
22.5°	7010.5	6991.7	6836.6	6491.1	6213.8	6030.5	6115.1	6432.3	6937.6	7069.2
25°	8077.4	8051.6	7823.6	7353.6	6923.5	6469.9	6415.9	6674.4	7151.5	7273.7
27.5°	9323.0	9301.9	9055.1	8434.7	7814.2	7071.6	6789.6	6958.8	7374.8	7513.4
30°	10662.6	10723.7	10286.6	9619.1	8834.2	7856.5	7292.5	7309.0	7663.8	7788.4
32.5°	12237.2	12343.0	11816.5	10970.5	9898.8	8709.6	7927.0	7797.8	8084.5	8187.9
35°	13797.7	13917.6	13480.4	12545.1	11311.2	9715.5	8589.8	8359.5	8643.8	8756.6
37.5°	15146.7	15306.5	15080.9	14267.7	12822.4	10928.2	9454.6	9019.9	9332.4	9473.4
40°	16211.3	16455.7	16439.3	15931.6	14603.8	12399.4	10552.2	9835.4	10187.9	10340.6
42.5°	17076.2	17287.7	17471.0	17445.1	16462.8	14070.3	11842.4	10895.3	11163.2	11339.4
45°	17673.1	17898.7	18293.5	18718.9	18251.2	15858.8	13320.6	12152.6	12397.0	12662.6
47.5°	18206.6	18462.7	18975.1	19649.6	19769.4	17654.3	14939.9	13616.7	13840.0	14115.0
50°	18253.6	18474.5	19268.8	20225.3	20848.1	19379.3	16679.0	15259.5	15468.7	15762.4
52.5°	17118.5	17466.3	18852.9	20208.9	21344.0	20822.3	18406.3	16968.0	17203.1	17555.6
55°	13287.7	13797.7	17633.1	19579.1	21167.8	21755.3	20049.1	18784.7	19085.5	19454.5
57.5°	11445.2	11668.5	13997.5	18432.2	20364.0	21997.4	21435.7	20620.2	21104.3	21508.5
60°	10286.6	10472.2	11849.4	16648.4	19306.4	21614.3	22507.3	22331.1	23167.7	23649.5
62.5°	9045.7	9222.0	10474.6	13901.1	17952.8	20977.4	23184.2	23910.4	25282.9	25809.3
65°	7814.2	7964.6	9165.6	11680.2	16232.5	20340.5	23534.4	25275.8	27240.5	27785.8
67.5°	6441.7	6566.3	7701.4	9854.2	14140.8	19468.6	23708.3	26349.8	28944.4	29412.1
70°	4648.6	4744.9	5917.7	7793.1	11515.7	17969.2	23637.8	27111.3	29828.0	30201.7
72.5°	2197.4	2284.3	3661.5	5059.9	8133.9	15050.3	22211.2	26507.3	28930.3	28744.6
75°	1172.7	1247.9	2103.4	2775.5	4296.1	10317.1	18176.0	22834.0	24293.4	23391.0
77.5°	794.3	853.1	1302.0	1666.3	1962.4	4897.7	11682.6	15809.4	15210.1	13720.1
80°	629.8	690.9	1067.0	1128.1	949.5	1769.7	4827.2	7318.4	5257.3	4204.4
82.5°	484.1	552.3	897.8	817.9	517.0	726.2	1405.4	2314.9	1346.6	1024.7
85°	296.1	369.0	705.0	521.7	291.4	331.4	477.1	643.9	411.3	343.1
87.5°	150.4	211.5	357.2	190.4	131.6	77.6	126.9	126.9	108.1	94.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6401.8	0°	6401.8	6401.8	6401.8	6401.8	6401.8	6401.8	6401.8	6401.8	6401.8	6401.8
6368.9	2.5°	6425.3	6472.3	6552.2	6627.4	6686.2	6742.6	6799.0	6829.5	6838.9	6876.5
6404.1	5°	6500.5	6587.5	6742.6	6888.3	6979.9	7036.3	7076.3	7099.8	7104.5	7116.2
6500.5	7.5°	6639.2	6777.8	6994.0	7139.7	7207.9	7203.2	7186.7	7128.0	7104.5	7083.3
6641.5	10°	6834.2	7017.5	7283.1	7384.2	7341.9	7229.0	7083.3	6911.8	6831.9	6754.3
6834.2	12.5°	7076.3	7309.0	7569.8	7565.1	7356.0	7066.9	6728.5	6465.2	6298.4	6178.5
7071.6	15°	7370.1	7638.0	7837.7	7677.9	7219.6	6700.3	6204.4	5861.3	5710.9	5579.2
7311.3	17.5°	7673.2	7959.9	8051.6	7642.7	6876.5	6157.4	5595.7	5325.4	5177.4	5106.9
7569.8	20°	7969.3	8253.7	8178.5	7440.6	6354.8	5541.6	5041.1	4893.0	4862.4	4878.9
7821.3	22.5°	8281.9	8535.7	8204.4	7050.4	5689.7	4911.8	4636.8	4641.5	4709.7	4759.0
8084.5	25°	8601.5	8773.1	8136.2	6486.4	4975.3	4448.8	4380.7	4455.9	4589.8	4686.2
8380.6	27.5°	8909.4	8984.6	7988.1	5788.4	4361.9	4117.5	4129.2	4284.3	4486.4	4620.4
8740.2	30°	9257.2	9172.6	7703.8	5003.5	3936.5	3833.1	3931.8	4112.8	4314.9	4434.7
9193.8	32.5°	9649.7	9334.8	7252.5	4277.3	3635.7	3605.1	3767.3	3884.8	3974.1	4009.3
9795.4	35°	10138.5	9562.7	6674.4	3767.3	3365.4	3438.3	3593.4	3534.6	3499.4	3480.6
10603.9	37.5°	10773.1	9870.6	5997.6	3435.9	3146.8	3318.4	3381.9	3198.5	3059.9	2991.7
11583.9	40°	11536.9	10321.8	5346.6	3179.7	3008.2	3215.0	3104.5	2883.6	2707.4	2611.0
12686.1	42.5°	12385.3	10794.2	4799.0	2987.0	2930.6	3130.4	2900.1	2636.9	2352.5	2321.9
13999.8	45°	13276.0	11280.7	4425.3	2839.0	2893.0	3057.5	2782.6	2357.2	2155.1	2279.6
15318.2	47.5°	14166.7	11727.2	4199.7	2728.5	2874.2	2975.3	2679.2	2202.1	2058.7	2239.7
16730.7	50°	15158.4	12126.7	4098.7	2648.6	2853.1	2942.4	2524.1	2162.1	1957.7	2077.5
18192.5	52.5°	16143.1	12437.0	4023.4	2568.7	2822.5	2916.5	2448.9	2115.1	1835.5	1842.5
19663.7	55°	17125.5	12639.1	3941.2	2463.0	2754.4	2860.1	2441.8	2063.4	1743.8	1710.9
21219.5	57.5°	18173.7	12754.2	3840.1	2345.4	2636.9	2716.8	2434.8	2023.5	1715.6	1661.6
22810.5	60°	19240.6	12923.4	3708.5	2202.1	2479.4	2545.2	2418.3	2009.4	1699.2	1607.5
24309.9	62.5°	20197.1	12982.2	3551.1	2065.8	2277.3	2376.0	2383.0	1997.6	1654.5	1497.0
25555.5	65°	20824.6	12728.4	3276.1	1910.7	2058.7	2202.1	2314.9	1957.7	1574.6	1417.1
26171.2	67.5°	20798.8	12004.5	2846.0	1710.9	1847.2	2009.4	2216.2	1889.5	1478.2	1318.4
25705.9	70°	19830.5	10575.7	2300.8	1478.2	1614.5	1802.6	2089.3	1788.5	1363.1	1210.3
22857.5	72.5°	17008.0	8277.2	1671.0	1205.6	1344.3	1588.7	1924.8	1666.3	1245.6	1114.0
16892.8	75°	12150.2	5238.5	1132.8	926.0	1045.8	1346.6	1720.3	1522.9	1137.5	1118.7
8460.5	77.5°	6206.7	2502.9	749.7	676.8	728.5	1062.3	1445.3	1360.7	1153.9	923.6
2406.5	80°	2018.8	923.6	472.4	460.6	484.1	707.4	1118.7	1116.3	874.3	627.5
582.8	82.5°	643.9	397.2	307.9	296.1	284.4	444.2	780.2	883.7	589.9	397.2
209.2	85°	256.2	237.4	181.0	166.9	119.9	209.2	408.9	587.5	439.5	286.7
54.1	87.5°	94.0	94.0	49.4	35.3	25.9	70.5	110.5	176.3	251.5	148.1
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>
6401.8
6897.7
7135.0
7088.0
6730.8
6150.3
5565.1
5128.0
4871.9
4770.8
4712.0
4653.3
4462.9
4028.1
3499.4
3008.2
2618.1
2352.5
2345.4
2324.3
2166.8
1891.9
1734.4
1668.6
1614.5
1497.0
1417.1
1325.5
1224.4
1106.9
1055.2
822.6
554.6
394.8
293.8
145.7
0.0

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