

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: P943384

Luminaire Tested: **GALN-SB7D-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47484 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

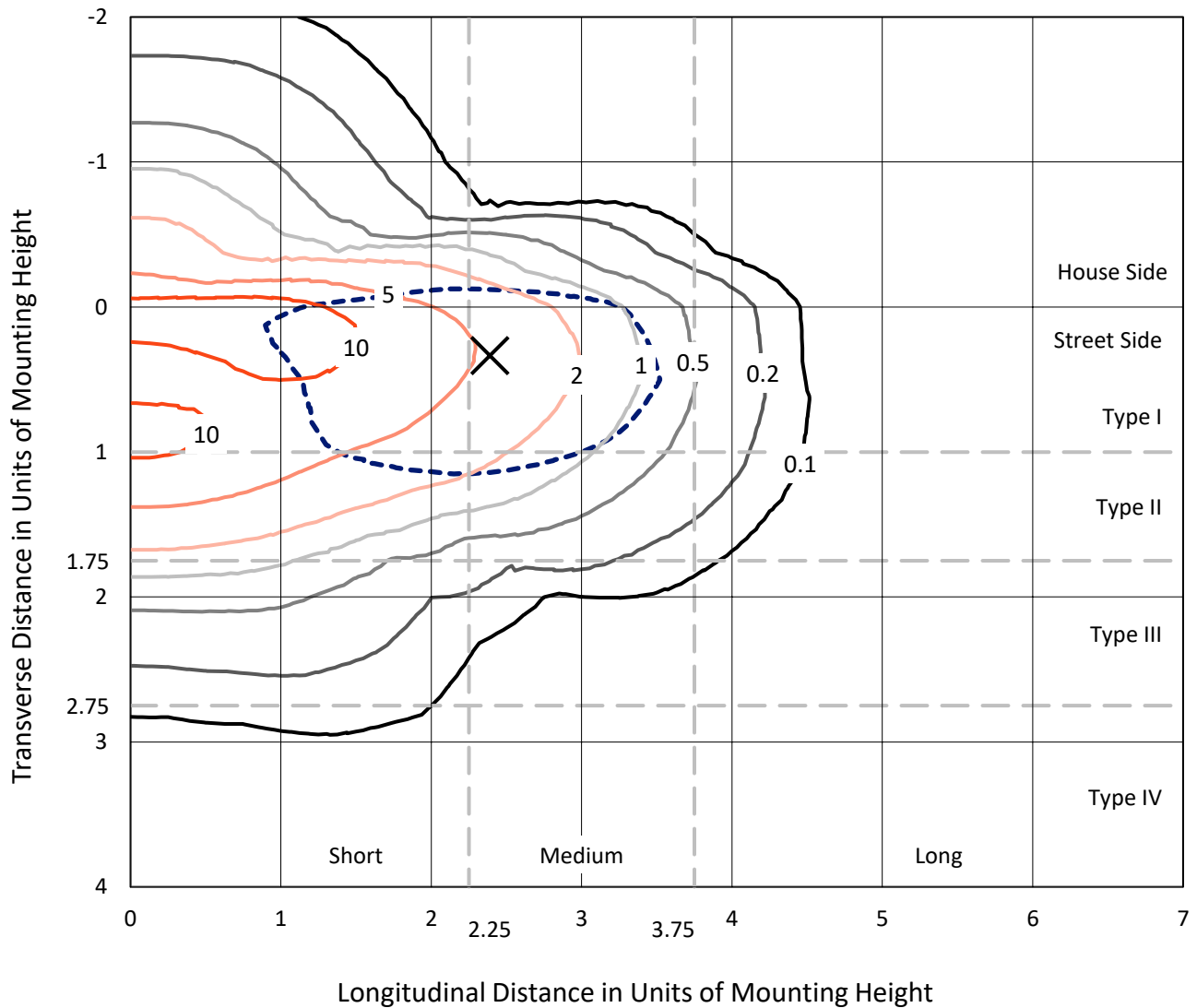
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943384
 CATALOG NUMBER: GALN-SB7D-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

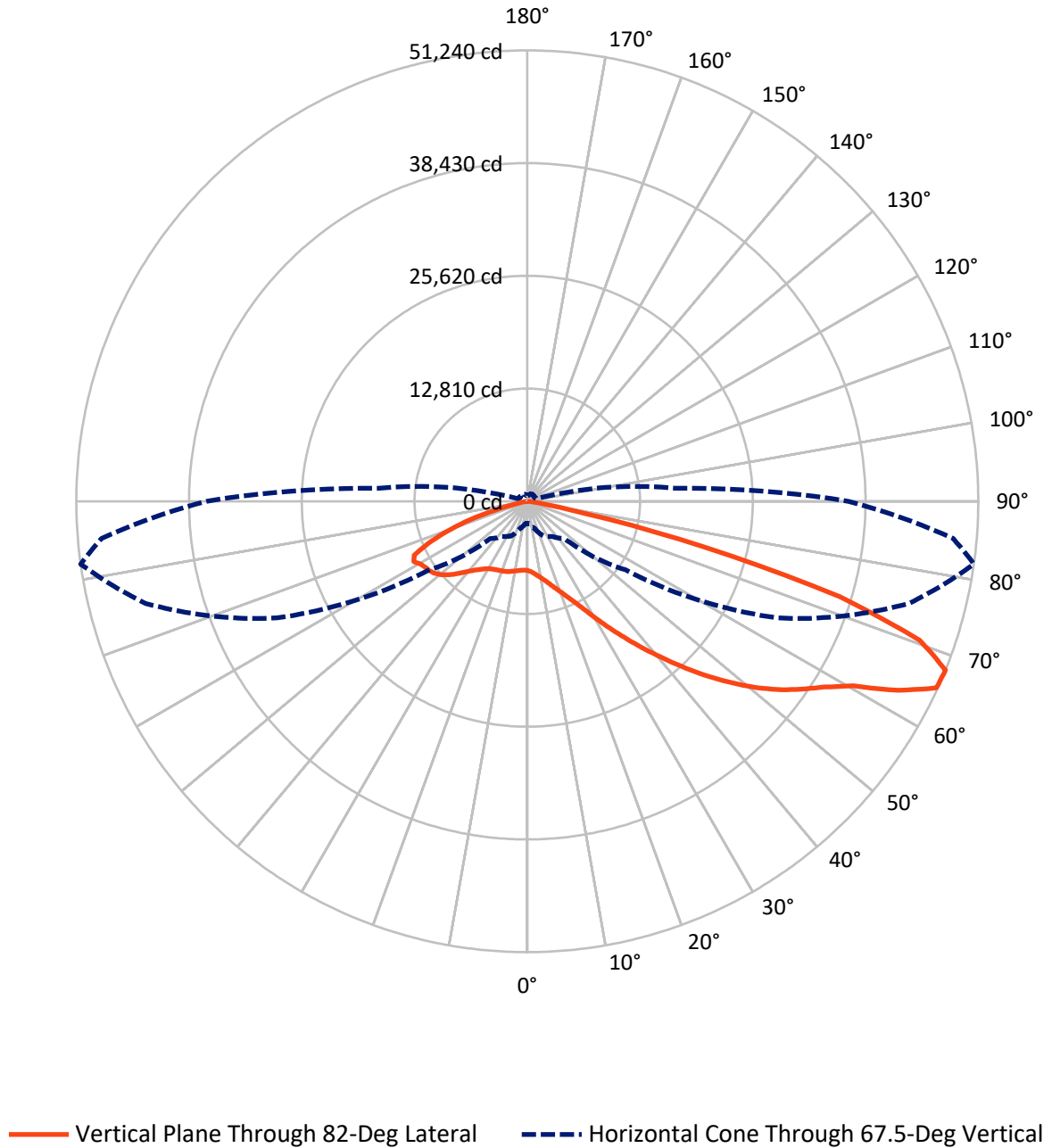
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P943384
CATALOG NUMBER: GALN-SB7D-830-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P943384

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8601.3	0.0	8601.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	38882.7	0.0	38882.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	47484.0	0.0	47484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.8	1.5
10°-20°	1821.2	3.8
20°-30°	2917.0	6.1
30°-40°	5158.2	10.9
40°-50°	9037.6	19.0
50°-60°	12053.6	25.4
60°-70°	11221.3	23.6
70°-80°	4306.7	9.1
80°-90°	267.5	0.6
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°	47484.0	100.0
0°-180°	47484.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943384

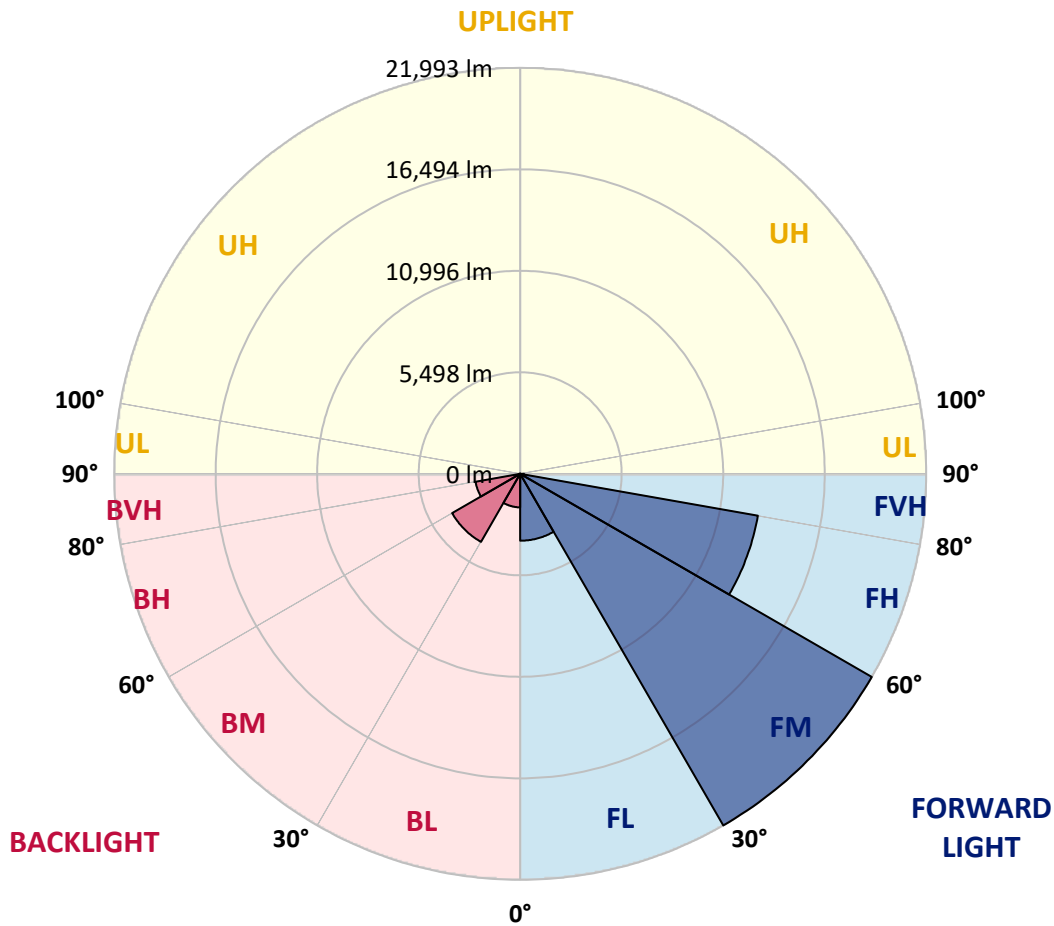
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3622.5	7.6			
FM (30°-60°)	21992.6	46.3			
FH (60°-80°)	13073.1	27.5			G5
FVH (80°-90°)	194.5	0.4			G2/225
BL (0°-30°)	1816.6	3.8	B3/2500		
BM (30°-60°)	4256.7	9.0	B3/5000		
BH (60°-80°)	2455.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	73.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium



REPORT NUMBER: P943384

CATALOG NUMBER: GALN-SB7D-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7866.5	7866.5	7866.5	7866.5	7866.5	7866.5	7866.5	7866.5	7866.5	7866.5
2.5°	8314.3	8362.2	8334.9	8321.2	8297.3	8263.1	8235.7	8150.2	8061.4	8003.2
5°	8481.9	8529.7	8526.3	8540.0	8557.1	8567.3	8560.5	8464.8	8338.3	8239.1
7.5°	8338.3	8393.0	8437.4	8505.8	8625.4	8751.9	8813.5	8793.0	8663.1	8526.3
10°	7931.4	7989.6	8095.5	8256.2	8509.2	8782.7	9011.8	9117.7	9035.7	8885.3
12.5°	7186.2	7244.3	7452.8	7801.5	8225.5	8700.7	9138.3	9422.0	9442.5	9292.1
15°	6348.6	6406.7	6628.9	7066.5	7712.6	8475.0	9206.6	9743.4	9924.6	9794.7
17.5°	5828.9	5880.2	6047.7	6399.9	7073.3	8023.8	9182.7	10085.2	10498.9	10396.4
20°	5671.7	5716.1	5794.7	6040.9	6601.6	7555.4	9025.4	10406.6	11117.7	11059.6
22.5°	5839.2	5880.2	5904.1	6013.5	6365.7	7247.7	8827.2	10734.8	11835.6	11842.5
25°	6225.5	6266.5	6239.2	6307.6	6461.4	7152.0	8751.9	11121.1	12738.2	12813.4
27.5°	6861.4	6864.8	6799.8	6796.4	6820.4	7295.6	8830.6	11534.8	13876.6	14016.8
30°	8136.6	8085.3	7835.7	7565.6	7442.6	7726.3	9049.4	12023.7	15220.2	15469.7
32.5°	10102.3	10027.1	9569.0	8922.9	8273.3	8420.3	9442.5	12580.9	16683.4	17134.7
35°	12235.6	12215.1	11736.5	10775.8	9640.8	9408.3	10081.8	13312.5	18279.9	18997.9
37.5°	14218.5	14208.2	13934.7	12803.1	11422.0	10786.1	11107.4	14269.8	19989.3	21028.6
40°	16030.4	16061.2	15787.7	14775.7	13384.3	12553.6	12502.3	15452.6	21890.1	23240.5
42.5°	17596.2	17630.4	17353.5	16604.8	15322.7	14509.1	14215.1	16902.2	23746.5	25616.5
45°	18659.4	18871.4	18830.4	18232.1	17312.4	16468.0	16273.1	18721.0	25862.7	28136.1
47.5°	18960.3	19155.1	19462.8	19544.9	18984.2	18153.4	18385.9	20912.4	28002.8	30659.1
50°	18218.4	18399.6	19038.9	19890.2	20279.9	20023.5	20440.6	23261.0	30194.2	33175.3
52.5°	16755.2	16939.8	17746.6	19093.6	20683.3	21490.1	22502.1	25575.5	32317.2	35558.2
55°	14639.0	14833.9	15869.7	17394.5	19914.1	22095.2	24221.7	27886.6	34262.5	37701.7
57.5°	11760.4	11904.0	12980.9	15114.2	17979.1	21493.5	25490.0	30409.6	36094.9	39807.7
60°	7664.8	7791.3	9042.5	11422.0	14772.3	19483.3	25743.0	33223.2	38529.1	42546.1
62.5°	5097.3	5182.8	5924.7	7671.6	10403.2	15623.6	24262.7	35469.3	42098.2	47311.8
65°	3497.4	3582.8	4324.7	5541.8	6721.2	10334.8	20006.4	35171.9	45332.3	51096.3
67.5°	2495.7	2567.5	3196.5	4345.2	4864.8	6003.3	13562.1	31370.2	44867.4	51239.9
70°	1788.0	1829.0	2348.7	3384.5	3866.6	3606.8	7541.7	23992.6	39284.6	47315.2
72.5°	1251.3	1264.9	1630.7	2577.7	3114.5	2632.4	3589.7	15996.2	29712.2	37137.6
75°	847.8	864.9	1097.4	1890.6	2499.1	2010.2	1900.8	8577.6	17442.3	20556.8
77.5°	519.6	526.5	707.7	1292.3	1870.0	1531.6	1223.9	3634.1	6748.6	6625.5
80°	294.0	294.0	451.3	803.4	1275.2	988.0	858.1	1545.3	2136.7	1876.9
82.5°	164.1	167.5	328.2	499.1	844.4	584.6	471.8	714.5	923.1	817.1
85°	68.4	75.2	201.7	235.9	403.4	290.6	191.4	300.8	341.9	304.3
87.5°	6.8	10.3	61.5	44.4	47.9	58.1	27.3	58.1	47.9	47.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943384
 CATALOG NUMBER: GALN-SB7D-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7866.5	0°	7866.5	7866.5	7866.5	7866.5	7866.5	7866.5	7866.5	7866.5	7866.5	7866.5
7982.7	2.5°	7917.8	7866.5	7736.6	7586.2	7387.9	7292.1	7162.2	7073.3	6998.1	7005.0
8181.0	5°	8071.6	7941.7	7651.1	7288.7	6837.5	6516.1	6174.2	5938.3	5746.9	5705.9
8454.5	7.5°	8283.6	8078.5	7569.1	6916.1	6153.7	5575.9	5059.7	4728.1	4492.2	4417.0
8786.1	10°	8557.1	8259.6	7463.1	6447.7	5350.3	4615.3	4061.4	3801.6	3640.9	3586.2
9175.9	12.5°	8875.0	8468.2	7322.9	5876.8	4523.0	3815.3	3463.2	3333.3	3282.0	3264.9
9654.5	15°	9275.0	8728.0	7111.0	5199.9	3822.1	3326.4	3176.0	3158.9	3165.7	3158.9
10228.8	17.5°	9750.2	9011.8	6765.7	4502.5	3350.4	3076.9	3022.2	3035.8	3052.9	3049.5
10871.6	20°	10269.9	9292.1	6324.6	3883.7	3029.0	2899.1	2868.3	2882.0	2895.7	2888.8
11613.4	22.5°	10861.3	9592.9	5835.8	3401.6	2813.6	2735.0	2700.8	2704.2	2704.2	2690.5
12553.6	25°	11569.0	9924.6	5323.0	3059.8	2649.5	2588.0	2547.0	2533.3	2512.8	2471.7
13695.4	27.5°	12413.4	10276.7	4830.7	2820.5	2519.6	2461.5	2413.6	2379.4	2328.2	2259.8
15066.3	30°	13363.8	10704.0	4413.6	2670.0	2417.0	2358.9	2304.2	2252.9	2177.7	2092.3
16642.4	32.5°	14481.7	11162.1	4109.3	2570.9	2324.7	2263.2	2198.2	2136.7	2054.7	1969.2
18413.3	35°	15815.0	11716.0	3931.5	2502.5	2252.9	2170.9	2099.1	2030.7	1969.2	1894.0
20338.0	37.5°	17261.2	12304.0	3876.8	2468.3	2205.1	2078.6	1996.5	1948.7	1941.8	1897.4
22420.0	40°	18844.0	13001.4	3917.9	2447.8	2153.8	1989.7	1900.8	1890.6	1907.6	1829.0
24645.6	42.5°	20519.2	13828.8	3986.2	2423.9	2082.0	1900.8	1815.3	1815.3	1801.7	1692.3
26997.7	45°	22331.1	14782.6	4054.6	2365.8	1996.5	1811.9	1747.0	1723.0	1664.9	1558.9
29363.5	47.5°	24156.7	15753.5	4105.9	2259.8	1894.0	1736.7	1678.6	1623.9	1538.4	1442.7
31684.8	50°	25890.0	16625.3	4051.2	2102.5	1777.7	1664.9	1603.4	1528.2	1435.9	1370.9
33883.0	52.5°	27438.7	17380.8	3818.7	1917.9	1654.7	1589.7	1535.0	1456.4	1381.2	1312.8
35865.9	55°	28785.7	17992.8	3408.5	1743.6	1545.3	1524.8	1470.1	1370.9	1268.3	1210.2
37831.6	57.5°	30078.0	18457.7	2895.7	1600.0	1446.1	1453.0	1370.9	1282.0	1186.3	1124.8
40481.2	60°	31797.6	19079.9	2376.0	1466.6	1340.1	1360.7	1271.8	1206.8	1087.2	1008.5
45024.6	62.5°	34546.2	20047.4	1887.1	1302.5	1217.1	1223.9	1186.3	1107.7	964.1	871.8
48392.1	65°	36727.4	19691.9	1487.1	1124.8	1076.9	1087.2	1087.2	1001.7	847.8	741.9
48573.3	67.5°	36481.2	16861.2	1186.3	950.4	943.6	950.4	974.3	902.5	752.1	666.7
44874.2	70°	33606.1	13411.7	950.4	789.7	820.5	803.4	871.8	823.9	676.9	591.4
34789.0	72.5°	27421.6	9661.3	724.8	653.0	629.0	656.4	786.3	741.9	564.1	468.4
18426.9	75°	16023.6	5155.4	540.2	516.2	454.7	547.0	697.4	632.5	430.8	345.3
5647.7	77.5°	5217.0	1798.3	396.6	379.5	338.5	441.0	594.9	533.3	352.1	273.5
1654.7	80°	1398.3	543.6	270.1	249.6	218.8	328.2	471.8	423.9	253.0	177.8
711.1	82.5°	560.7	229.1	157.3	140.2	119.7	225.6	372.6	341.9	188.0	112.8
222.2	85°	181.2	75.2	58.1	44.4	54.7	140.2	222.2	232.5	133.3	58.1
34.2	87.5°	23.9	10.3	10.3	13.7	10.3	23.9	68.4	65.0	37.6	6.8
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>
7866.5
6936.6
5613.6
4341.8
3545.2
3254.6
3155.5
3042.7
2885.4
2683.7
2464.9
2252.9
2085.4
1972.6
1887.1
1894.0
1832.4
1692.3
1555.5
1439.3
1360.7
1306.0
1203.4
1117.9
998.3
864.9
731.6
653.0
581.2
458.1
335.0
263.2
174.4
112.8
44.4
0.0
0.0

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