

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: P954656

Luminaire Tested: **GALN-SB7D-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50089 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

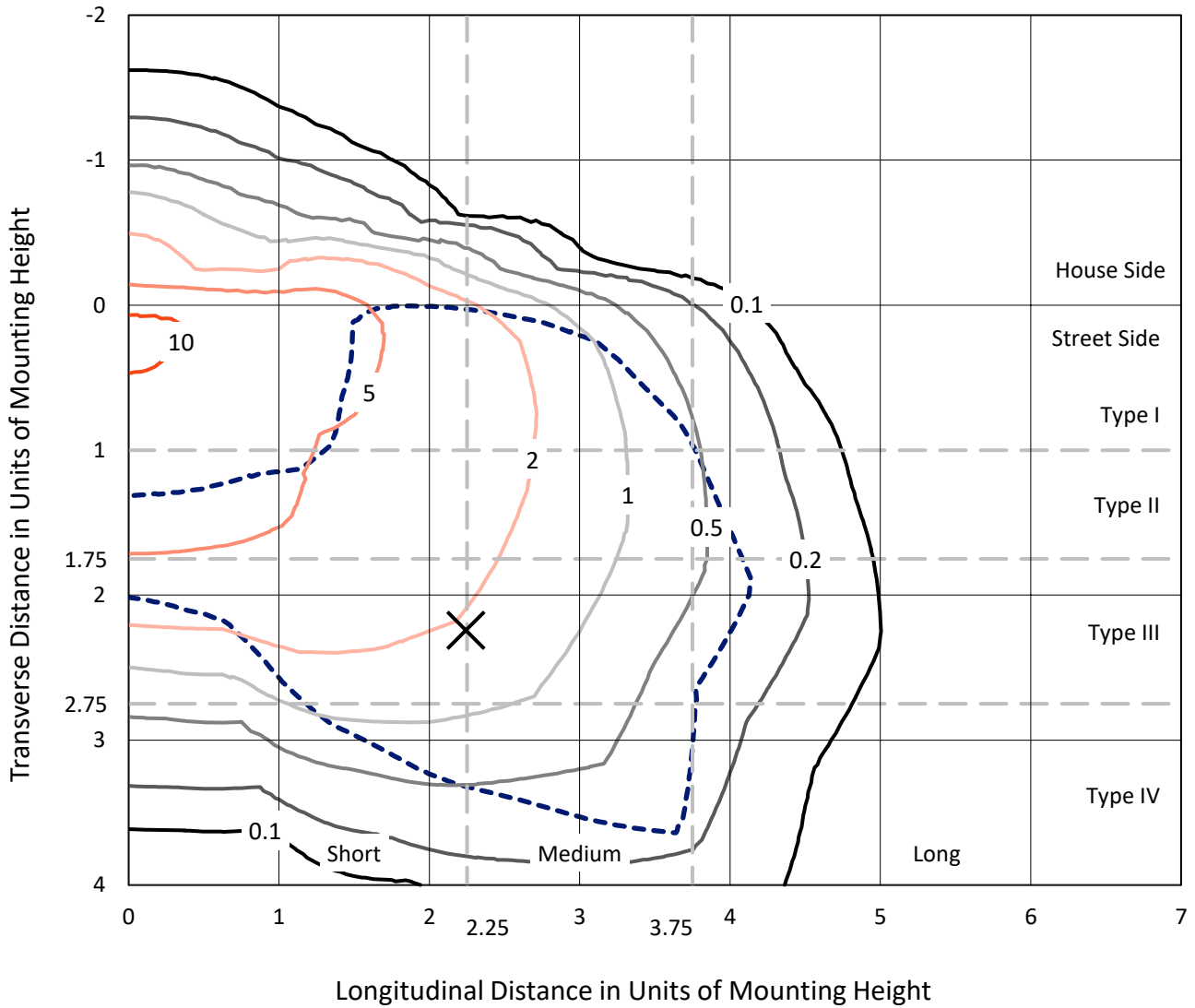
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

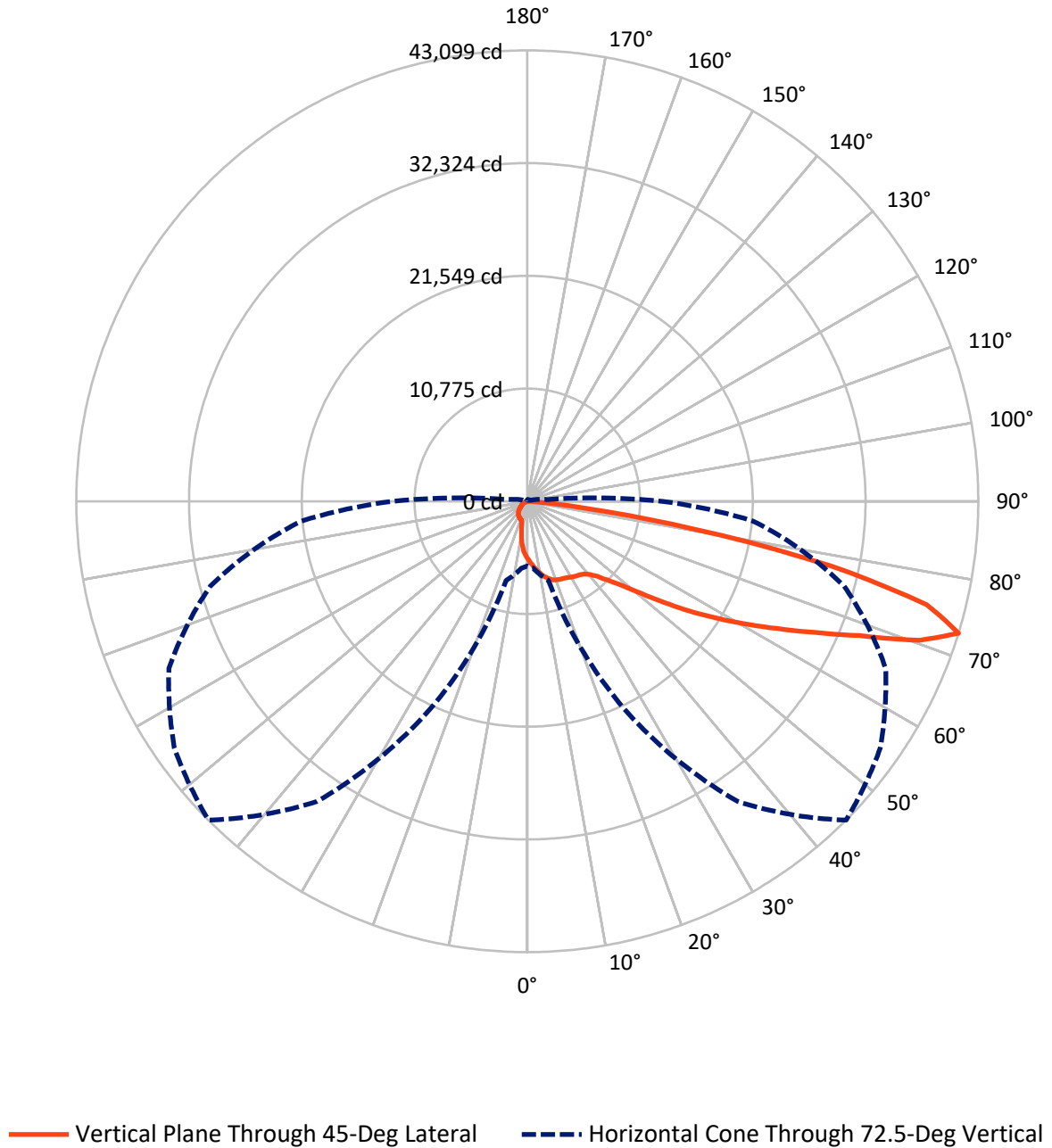
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5263.0	0.0	5263.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	44826.0	0.0	44826.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	50089.0	0.0	50089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.0	1.0
10°-20°	1511.0	3.0
20°-30°	2481.4	5.0
30°-40°	3519.1	7.0
40°-50°	5816.8	11.6
50°-60°	10449.1	20.9
60°-70°	14509.2	29.0
70°-80°	10524.5	21.0
80°-90°	760.9	1.5
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°	50089.0	100.0
0°-180°	50089.0	100.0

Coefficient of Utilization



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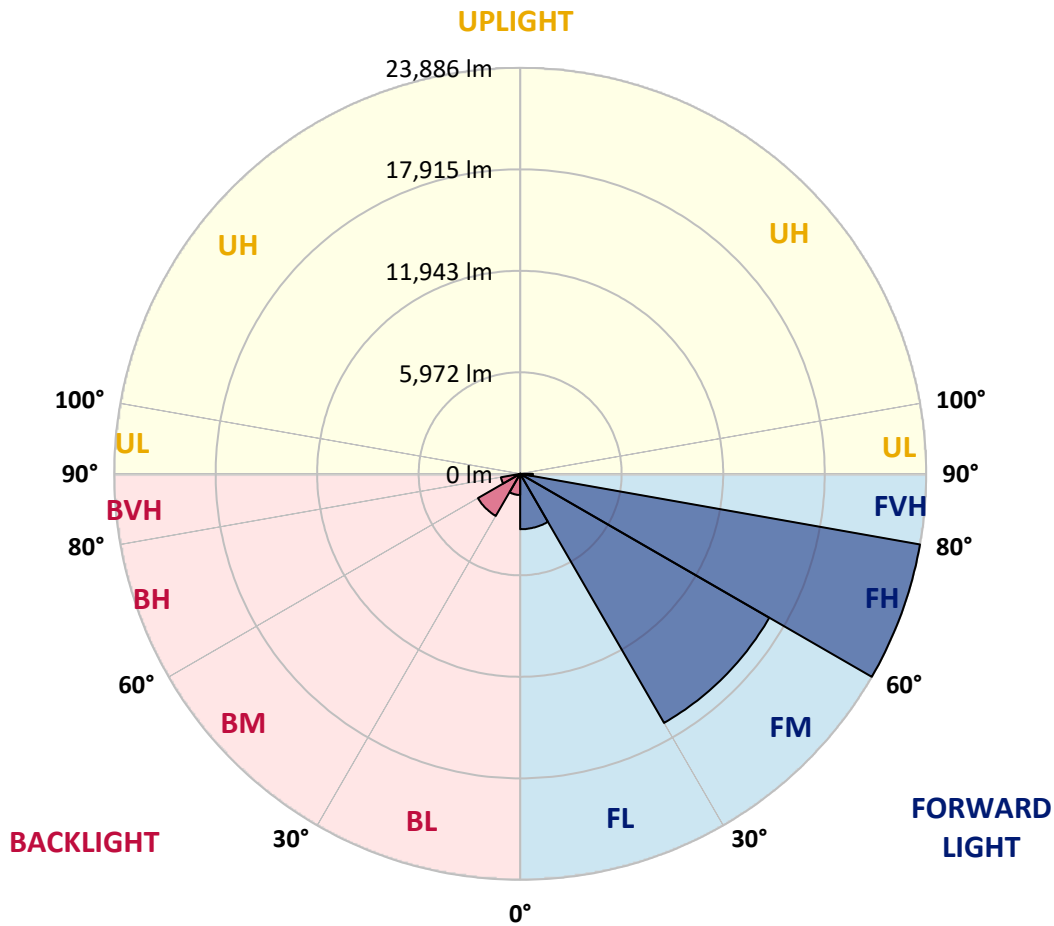
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3262.8	6.5			
FM (30°-60°)	16922.7	33.8			
FH (60°-80°)	23886.0	47.7			G5
FVH (80°-90°)	754.5	1.5			G5
BL (0°-30°)	1246.6	2.5	B3/2500		
BM (30°-60°)	2862.3	5.7	B3/5000		
BH (60°-80°)	1147.7	2.3	B3/2500		G3/2500
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5487.4	5487.4	5487.4	5487.4	5487.4	5487.4	5487.4	5487.4	5487.4	5487.4
2.5°	5993.4	6003.6	5996.8	5955.7	5887.4	5849.8	5829.2	5760.9	5716.4	5637.8
5°	6543.8	6584.8	6560.9	6478.8	6348.9	6256.6	6229.3	6089.1	5962.6	5815.6
7.5°	7128.4	7148.9	7104.5	6998.5	6824.2	6666.9	6642.9	6448.1	6246.4	6020.7
10°	7634.4	7658.4	7590.0	7436.1	7237.8	7043.0	7008.8	6793.4	6554.1	6277.1
12.5°	8058.4	8082.3	7993.4	7808.8	7590.0	7388.3	7354.1	7128.4	6865.2	6557.5
15°	8379.8	8424.2	8304.5	8106.2	7870.3	7668.6	7651.5	7429.3	7172.9	6831.0
17.5°	8567.8	8612.2	8499.4	8260.1	8058.4	7887.4	7866.9	7682.3	7443.0	7114.8
20°	8598.6	8639.6	8519.9	8311.4	8143.9	8007.1	7996.8	7863.5	7689.1	7374.6
22.5°	8506.3	8557.5	8448.1	8280.6	8164.4	8092.6	8078.9	8003.7	7904.5	7637.9
25°	8410.5	8451.6	8369.5	8222.5	8160.9	8154.1	8164.4	8150.7	8130.2	7904.5
27.5°	8403.7	8448.1	8355.8	8215.6	8181.5	8253.3	8263.5	8328.5	8345.6	8147.3
30°	8461.8	8492.6	8403.7	8256.7	8239.6	8403.7	8407.1	8523.4	8550.7	8352.4
32.5°	8588.3	8622.5	8533.6	8318.2	8294.3	8523.4	8533.6	8687.5	8731.9	8571.2
35°	8885.8	8926.8	8824.2	8489.2	8403.7	8636.2	8666.9	8848.1	8937.0	8803.7
37.5°	9627.7	9508.0	9367.8	8834.5	8653.3	8814.0	8865.2	9077.2	9234.5	9080.6
40°	11470.5	11094.4	10656.8	9422.5	9090.9	9193.5	9234.5	9446.5	9661.9	9511.4
42.5°	14236.4	13791.9	13087.6	10776.4	9750.7	9802.0	9832.8	10017.4	10321.7	10202.0
45°	16701.4	16540.7	15822.7	13087.6	10985.0	10732.0	10769.6	10865.3	11313.2	11268.7
47.5°	18595.5	18503.2	17949.3	15740.7	13070.5	11870.5	11976.5	12020.9	12667.1	12824.3
50°	20051.9	20017.7	19522.0	18099.7	15795.4	13549.2	13586.8	13491.0	14458.6	14848.3
52.5°	21426.3	21542.6	21176.8	20291.3	18704.9	15747.5	15740.7	15289.4	16595.4	17183.5
55°	22667.4	22708.4	22746.0	22527.2	21631.5	18250.2	18185.2	17446.7	19074.1	19682.7
57.5°	23833.2	23850.3	24185.4	24633.3	24677.7	20937.4	20817.8	19932.3	21781.9	22216.1
60°	24616.2	24694.8	25402.5	26647.0	27190.6	23710.2	23645.2	22742.6	24537.5	24739.3
62.5°	23487.9	23966.6	25751.3	28219.7	29563.3	26783.8	26753.0	25905.1	27436.8	27272.7
65°	19012.6	19822.9	22961.4	29283.0	31891.6	30216.4	30260.8	29358.2	30414.7	29881.3
67.5°	13299.6	14154.3	17867.2	29368.5	34493.4	34247.3	34503.7	33088.2	33577.2	32380.5
70°	9196.9	9637.9	12055.1	27529.1	36520.8	39799.6	39792.7	37669.6	36722.6	33519.0
72.5°	6184.8	6413.9	7829.3	21840.0	35030.2	43098.8	42900.5	41170.6	37782.4	31348.0
75°	2608.6	2776.2	3624.0	12273.9	27713.7	39430.3	38893.6	36384.1	33570.3	24684.6
77.5°	827.4	899.2	1429.1	4393.3	15265.4	29638.6	29071.0	22722.1	22499.9	12383.3
80°	393.2	458.1	803.4	1764.2	6007.0	16120.2	16041.5	10308.0	9678.9	3343.7
82.5°	170.9	201.7	444.5	943.6	2687.3	5750.6	5866.9	3507.8	2902.7	1268.4
85°	54.7	71.8	205.1	434.2	1135.1	1429.1	1412.0	834.2	1169.3	690.6
87.5°	0.0	0.0	68.4	99.1	116.2	82.1	92.3	71.8	324.8	191.5
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°
5487.4	0°	5487.4	5487.4	5487.4	5487.4	5487.4	5487.4	5487.4	5487.4	5487.4	5487.4
5555.7	2.5°	5514.7	5460.0	5364.3	5275.4	5196.7	5118.1	5070.2	5001.9	4995.0	4995.0
5644.6	5°	5552.3	5463.4	5292.5	5111.3	4902.7	4704.4	4506.1	4314.7	4253.1	4208.7
5788.2	7.5°	5661.7	5521.5	5251.5	4906.1	4509.5	4075.3	3771.1	3442.8	3316.3	3248.0
5979.7	10°	5819.0	5627.5	5217.3	4612.1	3969.4	3377.9	2943.7	2588.1	2451.4	2393.2
6188.2	12.5°	5993.4	5757.5	5155.7	4246.3	3377.9	2670.2	2246.2	2082.1	2061.6	2061.6
6437.8	15°	6201.9	5914.7	5049.7	3815.5	2759.1	2112.9	1962.5	1969.3	1989.8	2003.5
6680.6	17.5°	6417.3	6082.2	4882.2	3333.4	2212.0	1900.9	1904.3	1914.6	1931.7	1945.4
6943.8	20°	6649.8	6249.8	4660.0	2820.6	1897.5	1839.4	1849.6	1859.9	1873.6	1880.4
7190.0	22.5°	6899.4	6407.0	4396.7	2318.0	1791.5	1788.1	1791.5	1801.8	1818.9	1818.9
7477.2	25°	7166.0	6581.4	4095.9	1952.2	1736.8	1736.8	1743.6	1750.5	1764.2	1764.2
7754.1	27.5°	7439.6	6742.1	3777.9	1760.7	1688.9	1685.5	1685.5	1695.8	1702.6	1706.0
8027.6	30°	7740.4	6930.1	3459.9	1719.7	1651.3	1634.2	1624.0	1630.8	1637.7	1641.1
8314.8	32.5°	8048.1	7111.3	3176.2	1736.8	1613.7	1583.0	1548.8	1541.9	1541.9	1555.6
8612.2	35°	8390.0	7309.6	2957.4	1794.9	1593.2	1507.7	1453.0	1422.3	1425.7	1446.2
8967.8	37.5°	8800.3	7549.0	2796.7	1846.2	1579.5	1422.3	1333.4	1295.8	1271.8	1295.8
9456.7	40°	9337.1	7901.1	2680.4	1887.2	1562.4	1323.1	1203.5	1141.9	1097.5	1111.1
10215.7	42.5°	10126.8	8455.0	2636.0	1890.7	1524.8	1206.9	1070.1	988.1	923.1	926.5
11357.6	45°	11234.6	9330.2	2865.0	1846.2	1442.8	1080.4	929.9	820.5	779.5	769.3
13063.7	47.5°	12752.5	10605.5	3395.0	1753.9	1323.1	957.3	793.2	700.9	670.1	653.0
15303.1	50°	14786.8	12243.1	3983.0	1651.3	1203.5	841.1	680.4	622.2	601.7	584.6
17959.6	52.5°	17145.9	13904.7	4465.1	1548.8	1083.8	738.5	608.6	574.4	557.3	543.6
20523.7	55°	19310.0	15050.1	4437.7	1439.4	967.6	656.4	557.3	536.8	516.3	502.6
22732.4	57.5°	20657.1	15210.7	3658.2	1319.7	834.2	591.5	509.4	495.7	471.8	454.7
24643.5	60°	21275.9	14294.5	2564.2	1162.4	700.9	529.9	458.1	451.3	420.5	396.6
26452.1	62.5°	21388.7	12591.9	1709.5	967.6	584.6	471.8	406.9	396.6	355.6	314.5
27922.3	65°	20930.6	10157.6	1182.9	755.6	499.2	410.3	348.7	328.2	283.8	242.7
28271.0	67.5°	19481.0	7131.9	824.0	543.6	423.9	324.8	276.9	270.1	235.9	201.7
26493.2	70°	16824.5	4065.1	550.4	406.9	335.1	222.2	218.8	225.6	191.5	164.1
21645.1	72.5°	12899.6	1859.9	341.9	297.4	229.1	150.4	174.4	177.8	147.0	123.1
13504.7	75°	7593.4	796.6	215.4	191.5	116.2	99.1	126.5	129.9	99.1	78.6
4936.9	77.5°	2584.7	300.9	136.8	112.8	58.1	54.7	82.1	82.1	54.7	30.8
991.5	80°	588.1	112.8	68.4	44.4	27.4	23.9	27.4	23.9	13.7	3.4
304.3	82.5°	167.5	44.4	27.4	17.1	10.3	10.3	3.4	0.0	0.0	0.0
106.0	85°	47.9	20.5	6.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0
37.6	87.5°	20.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
5487.4
5012.1
4229.2
3258.2
2393.2
2061.6
2003.5
1945.4
1883.8
1825.7
1767.6
1709.5
1647.9
1565.9
1456.5
1288.9
1104.3
912.8
755.6
642.8
581.2
540.2
495.7
451.3
389.8
294.0
229.1
191.5
150.4
109.4
68.4
23.9
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