

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: P944524

Luminaire Tested: **GALN-SB9C-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944524
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-SB9C-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 615mA 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: 49811 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

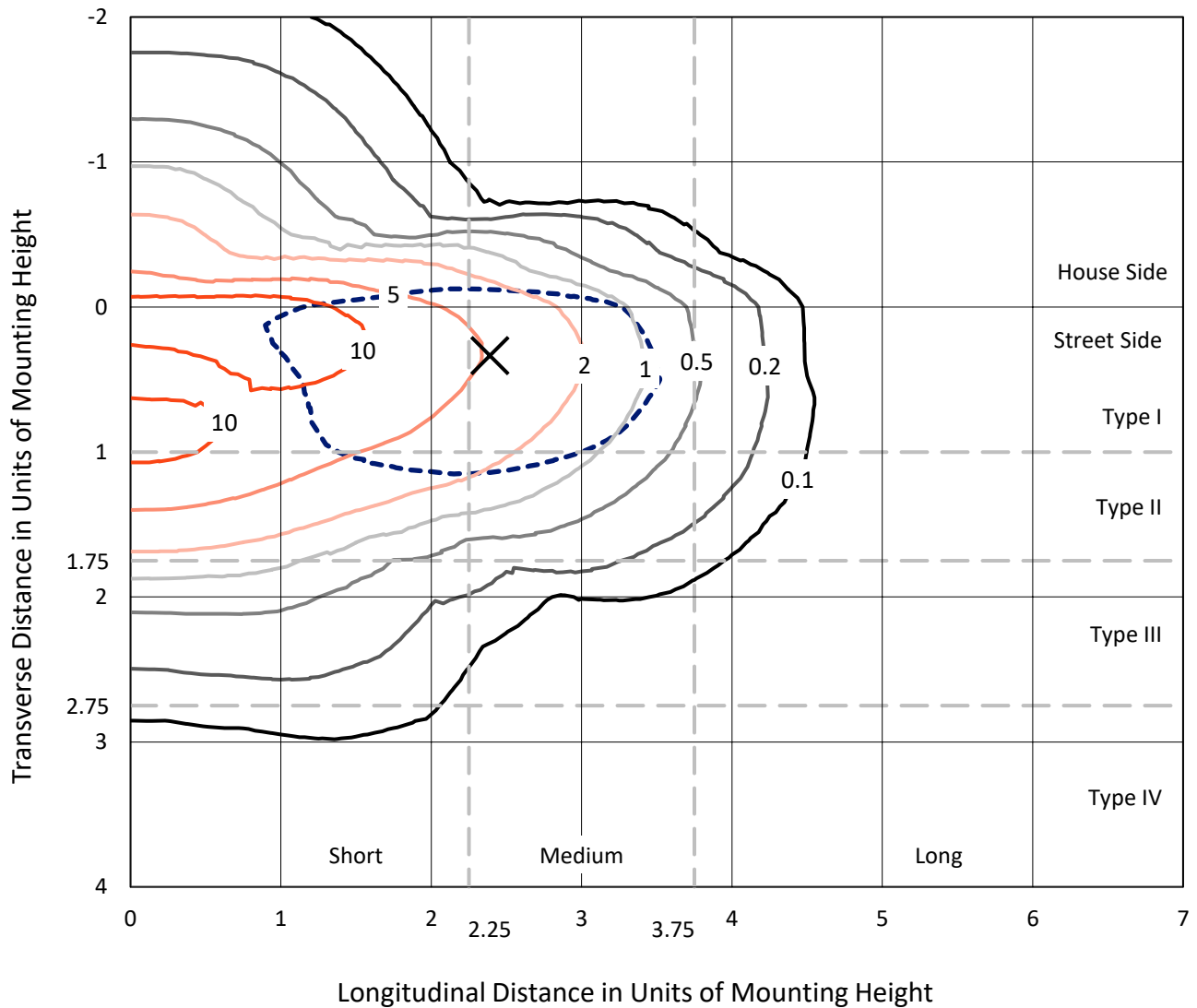
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

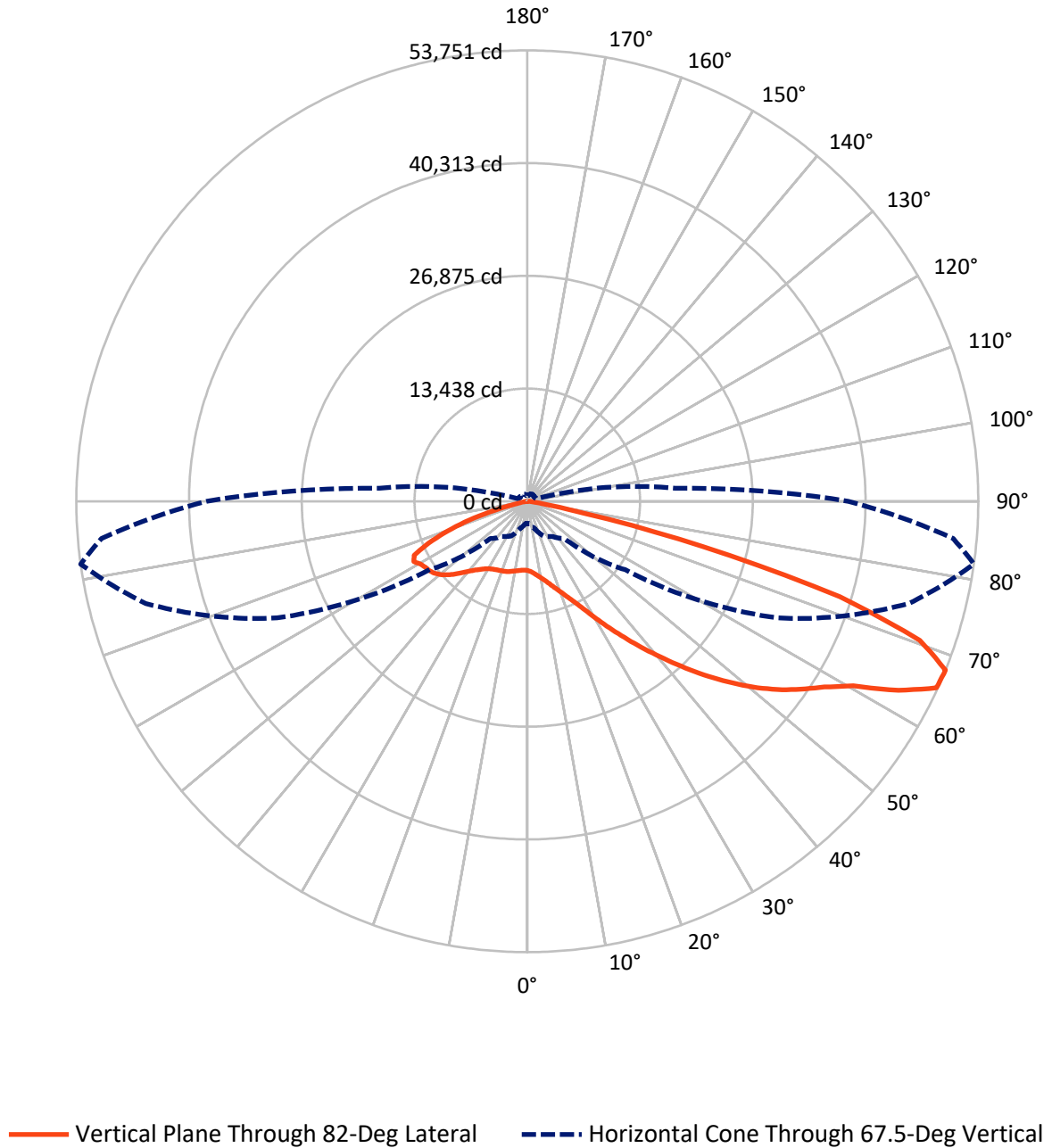
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 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	9022.8	0.0	9022.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	40788.2	0.0	40788.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	49811.0	0.0	49811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.2	1.5
10°-20°	1910.5	3.8
20°-30°	3060.0	6.1
30°-40°	5410.9	10.9
40°-50°	9480.5	19.0
50°-60°	12644.3	25.4
60°-70°	11771.2	23.6
70°-80°	4517.8	9.1
80°-90°	280.6	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°	49811.0	100.0
0°-180°	49811.0	100.0

Coefficient of Utilization



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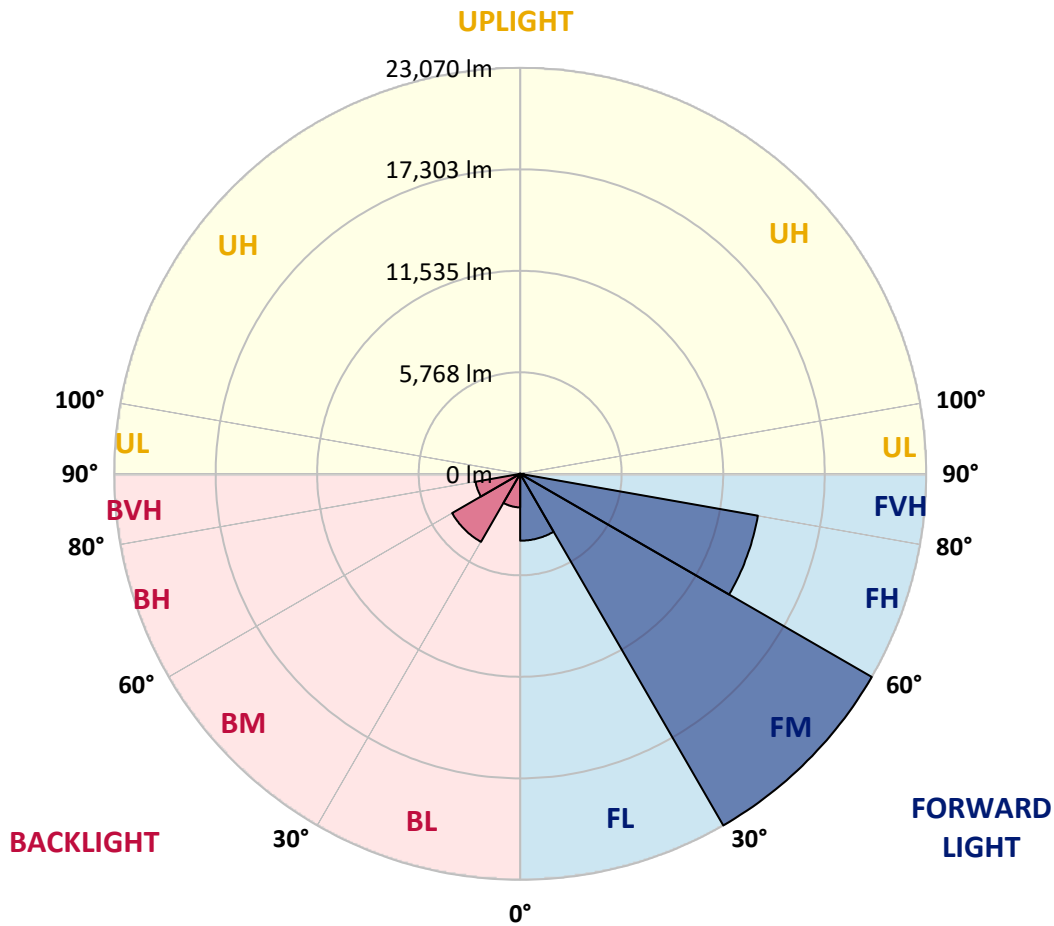
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3800.0	7.6			
FM (30°-60°)	23070.4	46.3			
FH (60°-80°)	13713.7	27.5			G5
FVH (80°-90°)	204.0	0.4			G2/225
BL (0°-30°)	1905.6	3.8	B3/2500		
BM (30°-60°)	4465.4	9.0	B3/5000		
BH (60°-80°)	2575.3	5.2	B4/5000		G4/5000
BVH (80°-90°)	76.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	8252.0	8252.0	8252.0	8252.0	8252.0	8252.0	8252.0	8252.0	8252.0	8252.0
2.5°	8721.8	8772.0	8743.3	8729.0	8703.9	8668.0	8639.3	8549.7	8456.4	8395.4
5°	8897.5	8947.7	8944.1	8958.5	8976.4	8987.2	8980.0	8879.6	8746.9	8642.9
7.5°	8746.9	8804.3	8850.9	8922.6	9048.1	9180.8	9245.4	9223.9	9087.6	8944.1
10°	8320.1	8381.1	8492.3	8660.8	8926.2	9213.1	9453.4	9564.6	9478.5	9320.7
12.5°	7538.3	7599.3	7818.1	8183.9	8628.6	9127.0	9586.1	9883.7	9905.3	9747.5
15°	6659.7	6720.7	6953.8	7412.8	8090.6	8890.4	9657.8	10220.9	10410.9	10274.7
17.5°	6114.6	6168.4	6344.1	6713.5	7420.0	8417.0	9632.7	10579.5	11013.4	10905.8
20°	5949.6	5996.2	6078.7	6336.9	6925.1	7925.6	9467.7	10916.6	11662.5	11601.6
22.5°	6125.3	6168.4	6193.5	6308.2	6677.6	7602.9	9259.7	11260.9	12415.7	12422.8
25°	6530.6	6573.6	6544.9	6616.7	6778.0	7502.5	9180.8	11666.1	13362.4	13441.3
27.5°	7197.6	7201.2	7133.1	7129.5	7154.6	7653.1	9263.3	12100.1	14556.7	14703.7
30°	8535.3	8481.5	8219.7	7936.4	7807.3	8105.0	9492.8	12612.9	15966.1	16227.9
32.5°	10597.4	10518.5	10038.0	9360.2	8678.8	8833.0	9905.3	13197.5	17501.0	17974.4
35°	12835.2	12813.7	12311.6	11303.9	10113.3	9869.4	10575.9	13964.9	19175.8	19928.9
37.5°	14915.3	14904.5	14617.6	13430.6	11981.7	11314.7	11651.8	14969.1	20968.9	22059.1
40°	16816.0	16848.3	16561.4	15499.8	14040.2	13168.8	13115.0	16209.9	22962.9	24379.4
42.5°	18458.5	18494.4	18203.9	17418.5	16073.6	15220.1	14911.7	17730.5	24910.2	26871.9
45°	19573.8	19796.2	19753.2	19125.6	18160.8	17275.0	17070.6	19638.4	27130.1	29515.0
47.5°	19889.4	20093.8	20416.6	20502.7	19914.5	19043.1	19286.9	21937.2	29375.1	32161.6
50°	19111.2	19301.3	19971.9	20864.9	21273.7	21004.8	21442.3	24401.0	31673.9	34801.1
52.5°	17576.3	17769.9	18616.3	20029.3	21696.9	22543.3	23604.8	26828.9	33901.0	37300.7
55°	15356.4	15560.8	16647.4	18246.9	20890.0	23178.0	25408.7	29253.2	35941.6	39549.3
57.5°	12336.8	12487.4	13617.1	15854.9	18860.2	22546.9	26739.2	31899.8	37863.8	41758.5
60°	8040.4	8173.1	9485.7	11981.7	15496.3	20438.1	27004.6	34851.3	40417.2	44631.1
62.5°	5347.1	5436.8	6215.0	8047.6	10913.0	16389.2	25451.7	37207.5	44161.3	49630.3
65°	3668.7	3758.4	4536.6	5813.3	7050.6	10841.3	20986.8	36895.5	47553.9	53600.3
67.5°	2618.0	2693.3	3353.2	4558.1	5103.3	6297.5	14226.7	32907.6	47066.1	53750.9
70°	1875.6	1918.7	2463.8	3550.4	4056.1	3783.5	7911.3	25168.4	41209.8	49633.9
72.5°	1312.6	1326.9	1710.6	2704.0	3267.1	2761.4	3765.6	16780.1	31168.2	38957.6
75°	889.4	907.3	1151.2	1983.2	2621.6	2108.7	1994.0	8997.9	18297.1	21564.2
77.5°	545.1	552.3	742.4	1355.6	1961.7	1606.6	1283.9	3812.2	7079.3	6950.2
80°	308.4	308.4	473.4	842.8	1337.7	1036.4	900.2	1621.0	2241.4	1968.9
82.5°	172.1	175.7	344.3	523.6	885.8	613.3	494.9	749.5	968.3	857.1
85°	71.7	78.9	211.6	247.5	423.2	304.8	200.8	315.6	358.6	319.2
87.5°	7.2	10.8	64.6	46.6	50.2	61.0	28.7	61.0	50.2	50.2
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°
8252.0	0°	8252.0	8252.0	8252.0	8252.0	8252.0	8252.0	8252.0	8252.0	8252.0	8252.0
8373.9	2.5°	8305.8	8252.0	8115.7	7957.9	7749.9	7649.5	7513.2	7420.0	7341.1	7348.3
8581.9	5°	8467.2	8330.9	8026.1	7645.9	7172.5	6835.4	6476.8	6229.3	6028.5	5985.5
8868.8	7.5°	8689.5	8474.3	7940.0	7255.0	6455.3	5849.2	5307.7	4959.8	4712.4	4633.5
9216.7	10°	8976.4	8664.4	7828.8	6763.7	5612.5	4841.5	4260.5	3987.9	3819.4	3762.0
9625.5	12.5°	9309.9	8883.2	7681.8	6164.8	4744.6	4002.3	3632.9	3496.6	3442.8	3424.9
10127.6	15°	9729.5	9155.7	7459.4	5454.7	4009.4	3489.4	3331.6	3313.7	3320.9	3313.7
10730.1	17.5°	10228.0	9453.4	7097.2	4723.1	3514.5	3227.6	3170.3	3184.6	3202.5	3198.9
11404.3	20°	10773.1	9747.5	6634.6	4074.0	3177.4	3041.2	3008.9	3023.2	3037.6	3030.4
12182.5	22.5°	11393.6	10063.1	6121.8	3568.3	2951.5	2869.0	2833.1	2836.7	2836.7	2822.4
13168.8	25°	12135.9	10410.9	5583.8	3209.7	2779.4	2714.8	2671.8	2657.4	2635.9	2592.9
14366.6	27.5°	13021.7	10780.3	5067.4	2958.7	2643.1	2582.1	2531.9	2496.0	2442.2	2370.5
15804.7	30°	14018.7	11228.6	4629.9	2800.9	2535.5	2474.5	2417.1	2363.3	2284.5	2194.8
17457.9	32.5°	15191.4	11709.2	4310.7	2696.9	2438.7	2374.1	2306.0	2241.4	2155.3	2065.7
19315.6	35°	16590.1	12290.1	4124.2	2625.1	2363.3	2277.3	2202.0	2130.2	2065.7	1986.8
21334.7	37.5°	18107.1	12907.0	4066.8	2589.3	2313.1	2180.4	2094.4	2044.2	2037.0	1990.4
23518.7	40°	19767.5	13638.6	4109.9	2567.8	2259.3	2087.2	1994.0	1983.2	2001.1	1918.7
25853.4	42.5°	21524.8	14506.4	4181.6	2542.7	2184.0	1994.0	1904.3	1904.3	1890.0	1775.2
28320.7	45°	23425.5	15507.0	4253.3	2481.7	2094.4	1900.7	1832.6	1807.5	1746.5	1635.3
30802.4	47.5°	25340.6	16525.5	4307.1	2370.5	1986.8	1821.8	1760.9	1703.5	1613.8	1513.4
33237.5	50°	27158.8	17440.0	4249.7	2205.6	1864.9	1746.5	1682.0	1603.1	1506.2	1438.1
35543.5	52.5°	28783.4	18232.6	4005.9	2011.9	1735.8	1667.6	1610.2	1527.7	1448.9	1377.1
37623.5	55°	30196.4	18874.5	3575.5	1829.0	1621.0	1599.5	1542.1	1438.1	1330.5	1269.5
39685.6	57.5°	31552.0	19362.2	3037.6	1678.4	1517.0	1524.2	1438.1	1344.8	1244.4	1179.9
42465.0	60°	33355.9	20014.9	2492.5	1538.5	1405.8	1427.3	1334.1	1266.0	1140.4	1057.9
47231.1	62.5°	36239.2	21029.9	1979.6	1366.4	1276.7	1283.9	1244.4	1162.0	1011.3	914.5
50763.6	65°	38527.3	20656.9	1560.0	1179.9	1129.7	1140.4	1140.4	1050.8	889.4	778.2
50953.7	67.5°	38269.0	17687.5	1244.4	997.0	989.8	997.0	1022.1	946.8	789.0	699.3
47073.3	70°	35253.0	14068.9	997.0	828.4	860.7	842.8	914.5	864.3	710.1	620.4
36493.8	72.5°	28765.4	10134.8	760.3	685.0	659.9	688.6	824.8	778.2	591.7	491.3
19330.0	75°	16808.8	5408.1	566.6	541.5	477.0	573.8	731.6	663.5	451.9	362.2
5924.5	77.5°	5472.6	1886.4	416.0	398.1	355.0	462.6	624.0	559.5	369.4	286.9
1735.8	80°	1466.8	570.2	283.3	261.8	229.5	344.3	494.9	444.7	265.4	186.5
745.9	82.5°	588.1	240.3	165.0	147.0	125.5	236.7	390.9	358.6	197.2	118.3
233.1	85°	190.1	78.9	61.0	46.6	57.4	147.0	233.1	243.9	139.9	61.0
35.9	87.5°	25.1	10.8	10.8	14.3	10.8	25.1	71.7	68.1	39.4	7.2
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>
8252.0
7276.5
5888.6
4554.6
3719.0
3414.1
3310.1
3191.8
3026.8
2815.2
2585.7
2363.3
2187.6
2069.3
1979.6
1986.8
1922.2
1775.2
1631.8
1509.8
1427.3
1370.0
1262.4
1172.7
1047.2
907.3
767.5
685.0
609.7
480.6
351.5
276.1
182.9
118.3
46.6
0.0
0.0

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