

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: P943727

Luminaire Tested: **GALN-SB8B-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8B-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40942 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

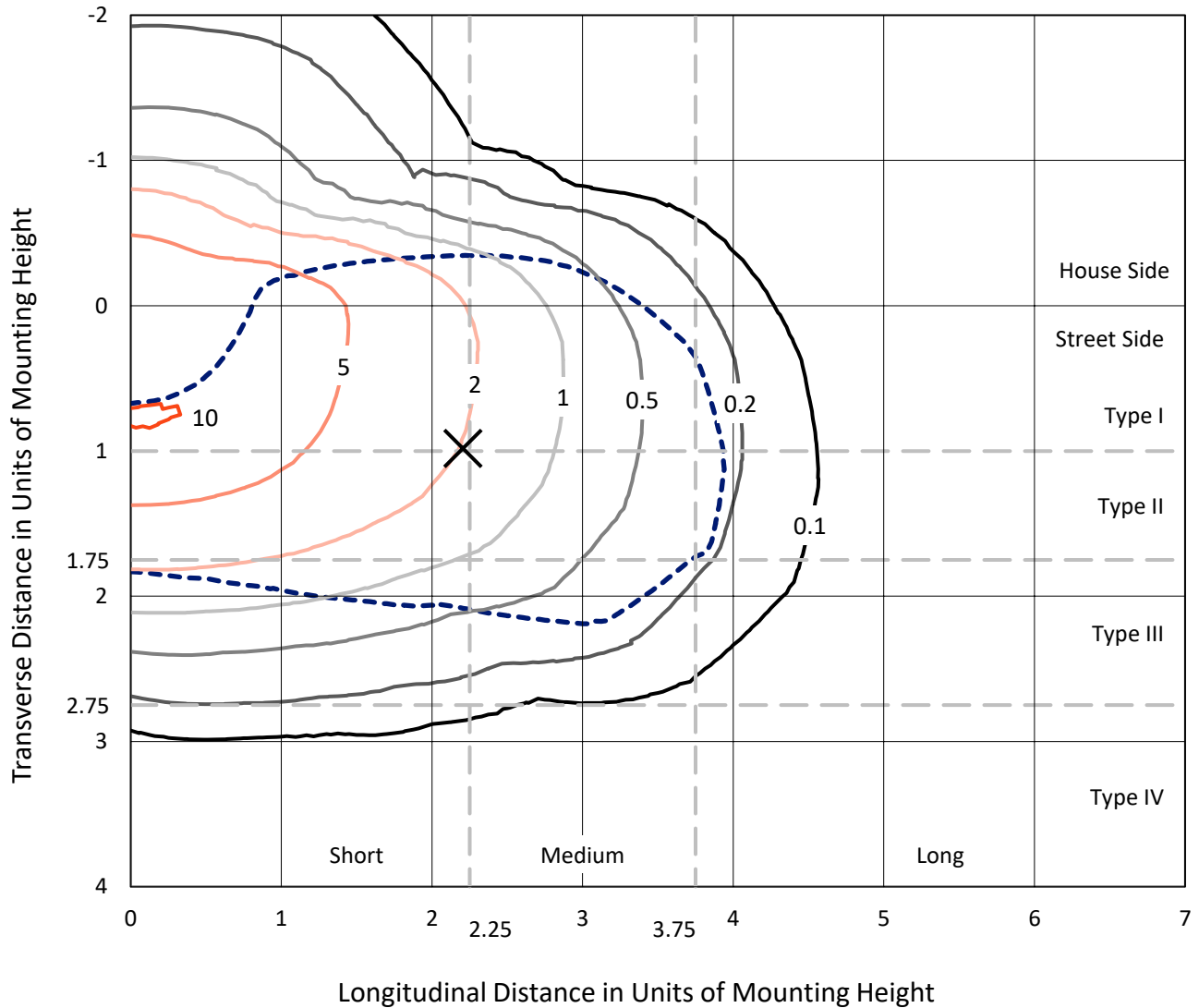
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

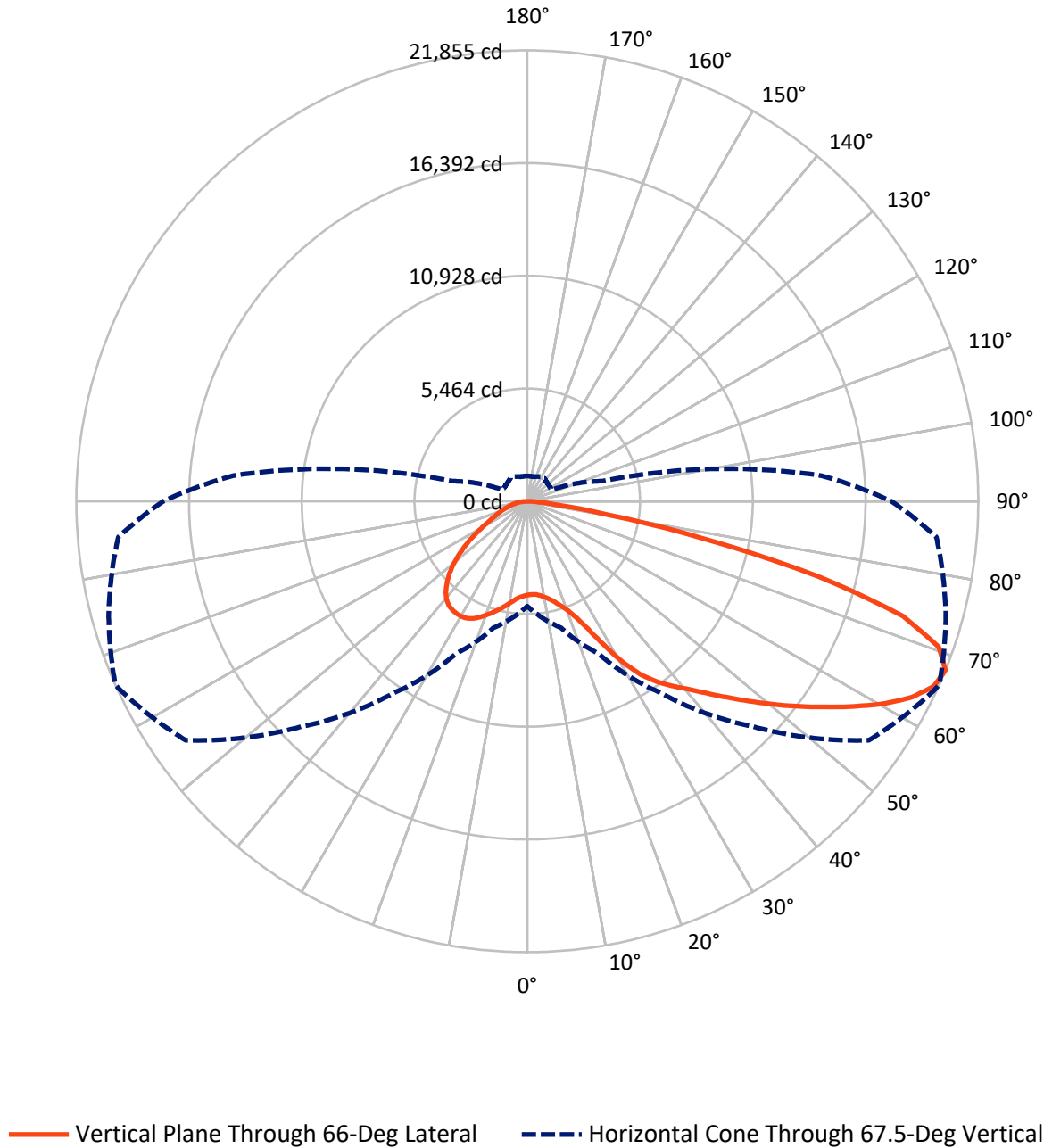
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10180.1	0.0	10180.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	30761.9	0.0	30761.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	40942.0	0.0	40942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.2	1.1
10°-20°	1487.5	3.6
20°-30°	2867.0	7.0
30°-40°	5027.0	12.3
40°-50°	7473.4	18.3
50°-60°	9473.3	23.1
60°-70°	9269.4	22.6
70°-80°	4421.6	10.8
80°-90°	472.5	1.2
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°	40942.0	100.0
0°-180°	40942.0	100.0

Coefficient of Utilization



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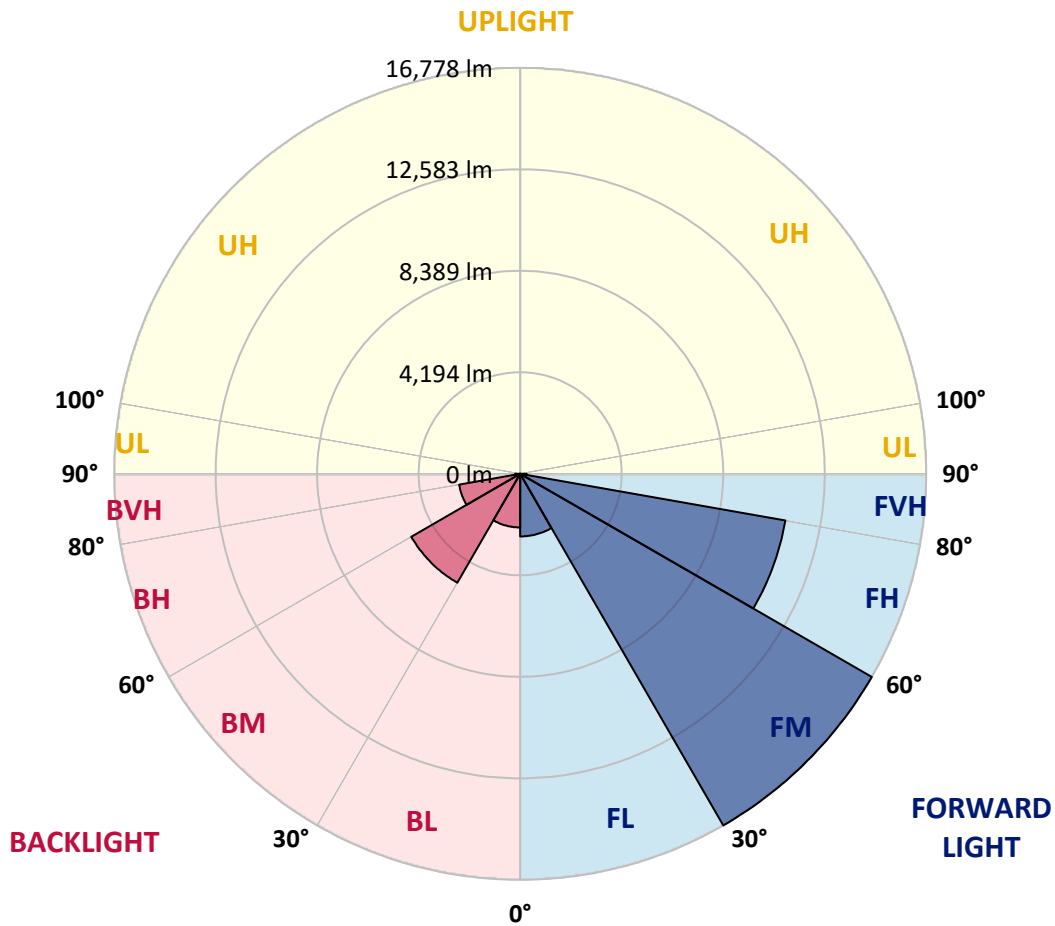
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2587.1	6.3			
FM (30°-60°)	16777.7	41.0			
FH (60°-80°)	11129.2	27.2			G4/12000
FVH (80°-90°)	267.9	0.7			G3/500
BL (0°-30°)	2217.6	5.4	B3/2500		
BM (30°-60°)	5196.0	12.7	B4/8500		
BH (60°-80°)	2561.8	6.3	B4/5000		G4/5000
BVH (80°-90°)	204.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4541.0	4541.0	4541.0	4541.0	4541.0	4541.0	4541.0	4541.0	4541.0	4541.0
2.5°	4493.7	4519.5	4513.0	4502.3	4500.1	4504.4	4510.9	4517.3	4515.2	4526.0
5°	4480.8	4506.6	4504.4	4504.4	4513.0	4530.3	4541.0	4551.8	4541.0	4553.9
7.5°	4489.4	4508.7	4517.3	4526.0	4547.5	4579.7	4605.5	4629.2	4616.3	4631.4
10°	4599.1	4614.1	4622.8	4622.8	4637.8	4674.4	4700.2	4743.2	4732.5	4756.1
12.5°	4799.1	4814.2	4814.2	4805.6	4816.4	4840.0	4848.6	4895.9	4876.6	4915.3
15°	5044.4	5074.5	5050.8	5035.8	5040.1	5063.7	5061.6	5098.1	5078.8	5111.1
17.5°	5315.4	5354.1	5315.4	5313.3	5304.7	5330.5	5332.6	5364.9	5330.5	5354.1
20°	5635.9	5689.7	5657.4	5668.2	5648.8	5659.6	5670.3	5717.7	5663.9	5681.1
22.5°	6087.7	6152.2	6117.8	6158.6	6145.7	6137.1	6135.0	6218.9	6135.0	6141.4
25°	6745.9	6823.3	6763.1	6819.0	6819.0	6847.0	6879.3	6986.8	6847.0	6806.1
27.5°	7718.2	7795.6	7677.3	7711.8	7701.0	7769.8	7735.4	8002.2	7851.6	7784.9
30°	8888.4	9026.1	8802.4	8793.8	8783.0	8892.7	8942.2	9118.6	8965.9	8899.2
32.5°	10153.3	10297.4	10030.7	9953.2	9912.3	9979.0	9938.2	10080.1	9974.7	9871.5
35°	11491.3	11633.2	11379.4	11228.8	11065.3	10925.5	10779.2	10815.8	10716.9	10559.8
37.5°	12756.1	13016.4	12747.5	12586.2	12285.0	12011.8	11603.1	11433.2	11340.7	11196.6
40°	14044.6	14193.1	13988.7	13851.0	13524.1	13096.0	12442.1	12082.8	11958.1	11818.2
42.5°	14993.3	15135.3	15025.6	14930.9	14674.9	14178.0	13332.6	12883.0	12702.3	12545.3
45°	15746.2	15851.6	15782.7	15817.2	15707.5	15225.6	14255.5	13741.3	13554.2	13362.7
47.5°	16049.5	16161.3	16271.1	16475.4	16662.6	16307.6	15247.1	14670.6	14472.7	14277.0
50°	16015.1	16129.1	16447.4	16882.0	17462.8	17344.5	16292.6	15660.1	15477.3	15253.6
52.5°	15739.7	15868.8	16277.5	17000.3	17925.3	18121.0	17357.4	16681.9	16509.8	16243.1
55°	15017.0	15094.4	15707.5	16731.4	18035.0	18663.1	18400.7	17770.4	17598.3	17226.1
57.5°	13676.8	13788.7	14681.4	16006.5	17759.6	19030.9	19317.0	18914.8	18749.1	18213.5
60°	11927.9	12106.5	13128.3	14788.9	17058.4	19028.8	20149.5	20039.8	19902.1	19185.8
62.5°	9948.9	10155.4	11138.5	13068.0	15832.2	18488.9	20670.1	20982.0	20911.0	20082.8
65°	7640.8	7782.7	8761.5	10841.6	13924.2	17329.4	20730.3	21625.2	21638.1	20764.7
67.5°	5087.4	5496.1	6345.8	8135.5	11368.7	15434.3	20201.1	21730.6	21855.4	20999.2
70°	2482.4	3020.2	3852.7	5287.4	8135.5	12528.1	18818.0	20865.8	21143.3	20315.2
72.5°	1030.4	1204.6	1658.5	2609.3	4670.1	8453.9	16038.7	18521.1	19035.2	18000.6
75°	694.8	752.9	948.6	1338.0	2127.5	4168.9	11566.6	13810.2	14638.4	13595.1
77.5°	535.6	572.2	690.5	935.7	1264.9	1576.8	6190.9	8322.7	8750.7	8101.1
80°	421.6	449.6	516.3	681.9	897.0	843.2	2110.2	3770.9	4018.3	3370.8
82.5°	365.7	376.4	370.0	462.5	595.9	492.6	692.7	1391.8	1535.9	1114.3
85°	264.6	294.7	307.6	286.1	316.2	249.5	283.9	492.6	542.1	484.0
87.5°	107.6	159.2	195.8	185.0	116.2	71.0	88.2	144.1	165.6	180.7
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°
4541.0	0°	4541.0	4541.0	4541.0	4541.0	4541.0	4541.0	4541.0	4541.0	4541.0	4541.0
4543.2	2.5°	4545.3	4560.4	4571.1	4584.0	4592.6	4605.5	4631.4	4646.4	4648.6	4659.3
4577.6	5°	4586.2	4607.7	4631.4	4665.8	4704.5	4736.8	4786.2	4820.7	4833.6	4844.3
4661.5	7.5°	4674.4	4704.5	4747.5	4807.7	4863.7	4906.7	4966.9	5007.8	5048.7	5063.7
4794.8	10°	4805.6	4848.6	4911.0	4992.7	5053.0	5108.9	5171.3	5205.7	5246.6	5263.8
4954.0	12.5°	4969.1	5014.3	5096.0	5210.0	5265.9	5304.7	5326.2	5317.6	5326.2	5341.2
5145.5	15°	5156.2	5205.7	5298.2	5420.8	5459.5	5425.1	5377.8	5334.8	5328.3	5332.6
5377.8	17.5°	5377.8	5414.4	5521.9	5625.2	5597.2	5455.2	5352.0	5283.1	5248.7	5238.0
5674.6	20°	5687.6	5687.6	5775.8	5840.3	5653.1	5412.2	5250.9	5139.0	5068.0	5037.9
6079.1	22.5°	6064.0	6029.6	6085.5	6040.3	5642.4	5291.7	5068.0	4874.4	4766.9	4723.9
6644.8	25°	6541.5	6500.7	6485.6	6206.0	5564.9	5100.3	4736.8	4502.3	4407.6	4384.0
7460.1	27.5°	7262.2	7158.9	6963.2	6296.3	5423.0	4799.1	4349.6	4132.3	4078.5	4080.7
8507.7	30°	8221.6	8015.1	7535.4	6311.4	5190.6	4373.2	3953.8	3798.9	3773.1	3783.8
9387.5	32.5°	9110.0	8914.2	8120.5	6242.5	4833.6	3955.9	3598.8	3495.6	3456.8	3469.8
10058.6	35°	9806.9	9753.2	8662.5	6145.7	4394.7	3564.4	3280.5	3192.3	3117.0	3099.8
10691.1	37.5°	10465.2	10443.7	9069.1	6010.2	3960.2	3286.9	3024.5	2908.3	2798.6	2738.4
11390.2	40°	11188.0	11166.5	9335.8	5801.6	3575.2	3046.0	2794.3	2641.6	2506.1	2396.3
12181.8	42.5°	12001.1	11874.2	9462.8	5502.6	3248.2	2841.6	2607.2	2400.6	2222.1	2121.0
13076.6	45°	12889.5	12603.4	9460.6	5121.8	2972.8	2654.5	2407.1	2114.5	1948.9	1854.3
13995.2	47.5°	13831.7	13300.4	9344.5	4700.2	2706.1	2448.0	2097.3	1873.6	1763.9	1705.8
14993.3	50°	14804.0	13952.1	9146.6	4216.2	2432.9	2213.5	1903.7	1751.0	1667.1	1613.3
15982.8	52.5°	15718.2	14543.7	8907.8	3667.7	2155.4	1985.5	1817.7	1699.4	1611.2	1551.0
16942.2	55°	16567.9	15053.5	8570.1	3106.2	1929.6	1832.8	1776.8	1677.9	1576.8	1505.8
17916.7	57.5°	17322.9	15384.8	7987.1	2579.2	1768.2	1727.3	1733.8	1641.3	1525.1	1464.9
18876.1	60°	17951.1	15627.9	7124.5	2090.9	1637.0	1624.1	1667.1	1572.5	1436.9	1368.1
19687.0	62.5°	18327.5	15623.6	6066.2	1712.3	1525.1	1529.4	1578.9	1486.4	1348.8	1284.2
20110.8	65°	18295.3	15240.7	4904.5	1464.9	1417.6	1421.9	1486.4	1391.8	1275.6	1236.9
19897.8	67.5°	17647.8	14307.1	3762.3	1303.6	1299.3	1318.6	1393.9	1327.2	1230.4	1226.1
18628.7	70°	15894.6	12368.9	2710.4	1174.5	1176.7	1204.6	1303.6	1286.4	1206.8	1215.4
15662.3	72.5°	12745.4	9430.5	1819.8	1039.0	1041.1	1086.3	1217.5	1254.1	1183.1	1297.1
11112.7	75°	8488.3	5881.2	1170.2	894.9	897.0	955.1	1142.2	1191.7	1118.6	1292.8
5782.2	77.5°	4078.5	2643.7	847.5	752.9	752.9	806.7	987.4	1067.0	952.9	1004.6
1858.6	80°	1409.0	993.8	666.8	606.6	593.7	630.3	832.5	925.0	821.7	757.2
606.6	82.5°	555.0	516.3	535.6	471.1	428.1	451.7	647.5	763.6	604.5	546.4
342.0	85°	318.4	335.6	378.6	311.9	247.4	277.5	475.4	548.5	456.0	402.3
111.9	87.5°	86.0	118.3	174.2	161.3	111.9	118.3	225.9	303.3	262.4	202.2
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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180°
4541.0
4657.2
4842.2
5065.9
5272.4
5345.5
5347.7
5253.0
5031.5
4717.4
4388.3
4087.1
3820.4
3487.0
3112.7
2740.5
2407.1
2127.5
1850.0
1692.9
1594.0
1525.1
1477.8
1426.2
1338.0
1264.9
1234.7
1232.6
1213.2
1314.3
1303.6
920.7
709.9
544.2
410.9
208.7
0.0

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