

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: P954278

Luminaire Tested: **GALN-SB7C-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954278
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-SB7C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 615mA 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: 35674 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

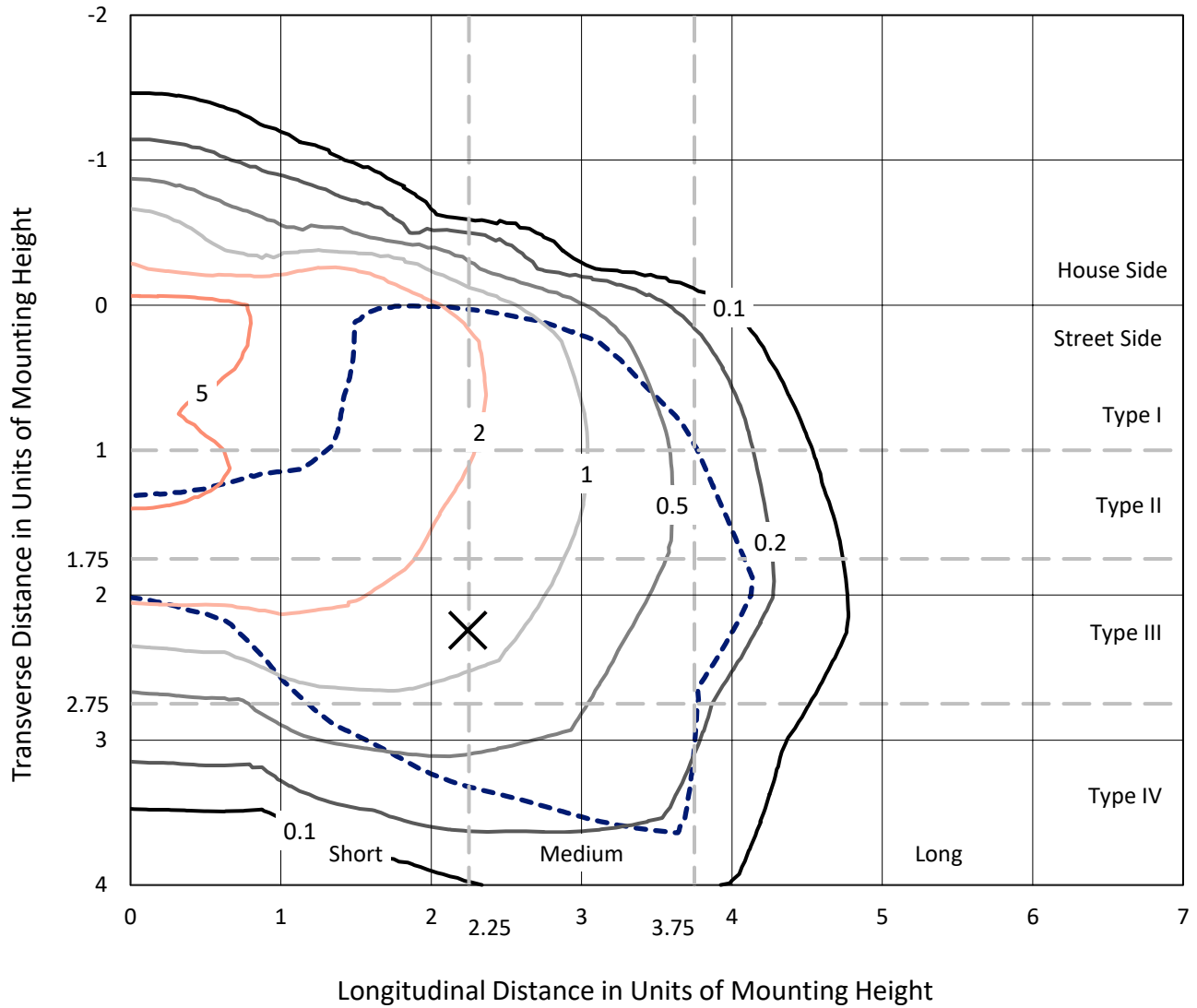
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

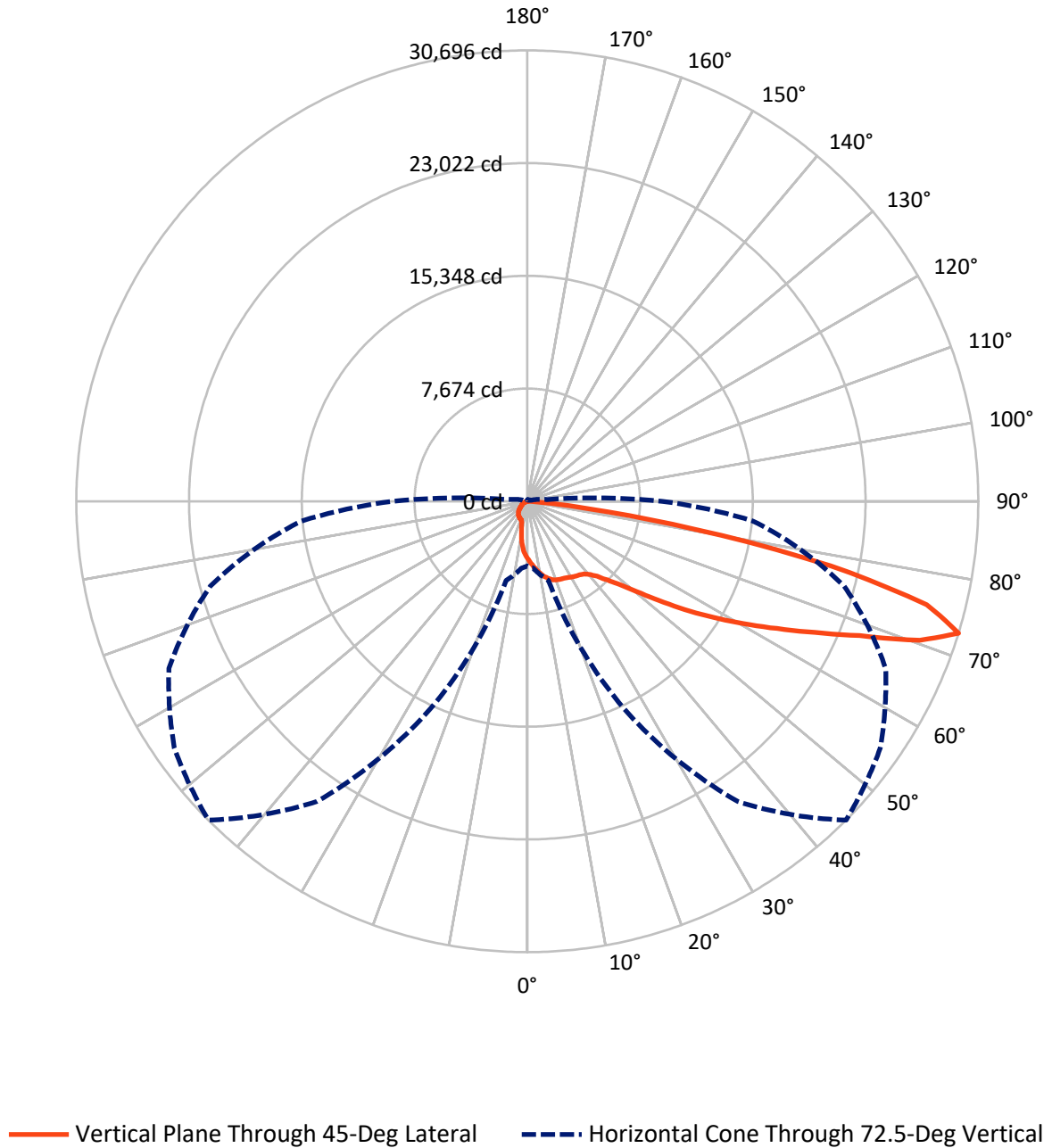
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	3748.4	0.0	3748.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	31925.6	0.0	31925.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	35674.0	0.0	35674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.2	1.0
10°-20°	1076.2	3.0
20°-30°	1767.2	5.0
30°-40°	2506.4	7.0
40°-50°	4142.8	11.6
50°-60°	7442.0	20.9
60°-70°	10333.6	29.0
70°-80°	7495.7	21.0
80°-90°	541.9	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°	35674.0	100.0
0°-180°	35674.0	100.0

Coefficient of Utilization



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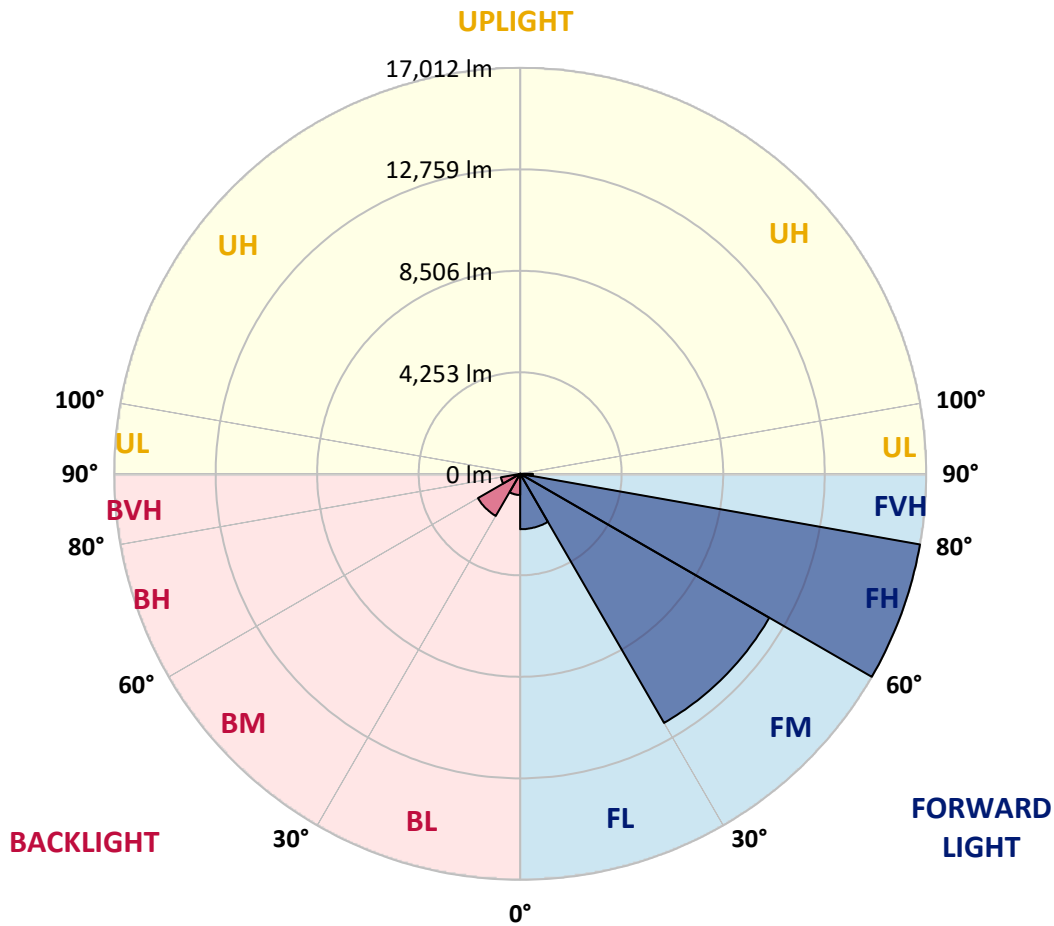
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2323.8	6.5			
FM (30°-60°)	12052.6	33.8			
FH (60°-80°)	17011.9	47.7			G5
FVH (80°-90°)	537.4	1.5			G4/750
BL (0°-30°)	887.8	2.5	B2/1000		
BM (30°-60°)	2038.6	5.7	B2/2500		
BH (60°-80°)	817.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2
2.5°	4268.5	4275.8	4271.0	4241.8	4193.1	4166.3	4151.7	4103.0	4071.3	4015.3
5°	4660.6	4689.8	4672.8	4614.3	4521.8	4456.0	4436.6	4336.7	4246.6	4141.9
7.5°	5077.0	5091.6	5059.9	4984.4	4860.2	4748.2	4731.2	4592.4	4448.7	4288.0
10°	5437.3	5454.4	5405.7	5296.1	5154.9	5016.1	4991.7	4838.3	4667.9	4470.6
12.5°	5739.3	5756.3	5693.0	5561.5	5405.7	5262.0	5237.7	5077.0	4889.5	4670.3
15°	5968.2	5999.8	5914.6	5773.4	5605.4	5461.7	5449.5	5291.2	5108.6	4865.1
17.5°	6102.1	6133.7	6053.4	5882.9	5739.3	5617.5	5602.9	5471.4	5301.0	5067.2
20°	6124.0	6153.2	6068.0	5919.5	5800.2	5702.8	5695.4	5600.5	5476.3	5252.3
22.5°	6058.3	6094.8	6016.9	5897.6	5814.8	5763.6	5753.9	5700.3	5629.7	5439.8
25°	5990.1	6019.3	5960.9	5856.2	5812.3	5807.5	5814.8	5805.0	5790.4	5629.7
27.5°	5985.2	6016.9	5951.1	5851.3	5826.9	5878.1	5885.4	5931.6	5943.8	5802.6
30°	6026.6	6048.5	5985.2	5880.5	5868.3	5985.2	5987.6	6070.4	6089.9	5948.7
32.5°	6116.7	6141.1	6077.7	5924.3	5907.3	6070.4	6077.7	6187.3	6219.0	6104.5
35°	6328.5	6357.8	6284.7	6046.1	5985.2	6150.8	6172.7	6301.8	6365.1	6270.1
37.5°	6856.9	6771.7	6671.9	6292.0	6163.0	6277.4	6313.9	6464.9	6576.9	6467.3
40°	8169.4	7901.5	7589.9	6710.8	6474.6	6547.7	6576.9	6727.9	6881.3	6774.1
42.5°	10139.3	9822.8	9321.2	7675.1	6944.6	6981.1	7003.0	7134.5	7351.2	7266.0
45°	11894.9	11780.5	11269.1	9321.2	7823.6	7643.4	7670.2	7738.4	8057.4	8025.7
47.5°	13243.9	13178.2	12783.7	11210.7	9309.0	8454.3	8529.8	8561.4	9021.6	9133.7
50°	14281.2	14256.9	13903.8	12890.8	11249.7	9649.9	9676.7	9608.5	10297.6	10575.2
52.5°	15260.1	15342.9	15082.3	14451.7	13321.8	11215.6	11210.7	10889.3	11819.5	12238.3
55°	16144.0	16173.2	16200.0	16044.2	15406.2	12998.0	12951.7	12425.8	13584.8	14018.3
57.5°	16974.3	16986.5	17225.1	17544.1	17575.8	14911.9	14826.7	14196.0	15513.3	15822.6
60°	17531.9	17587.9	18092.0	18978.3	19365.5	16886.7	16840.4	16197.6	17475.9	17619.6
62.5°	16728.4	17069.3	18340.4	20098.4	21055.4	19075.7	19053.8	18449.9	19540.8	19423.9
65°	13541.0	14118.1	16353.4	20855.7	22713.6	21520.5	21552.1	20909.3	21661.7	21281.8
67.5°	9472.1	10080.9	12725.3	20916.6	24566.6	24391.3	24573.9	23565.9	23914.1	23061.8
70°	6550.1	6864.2	8585.8	19606.6	26010.6	28345.7	28340.9	26828.7	26154.3	23872.7
72.5°	4404.9	4568.0	5576.1	15554.7	24948.9	30695.5	30554.3	29322.2	26909.1	22326.4
75°	1857.9	1977.2	2581.1	8741.6	19738.0	28082.8	27700.5	25913.2	23909.2	17580.6
77.5°	589.3	640.4	1017.8	3129.0	10872.2	21108.9	20704.7	16183.0	16024.7	8819.5
80°	280.0	326.3	572.2	1256.5	4278.3	11481.0	11425.0	7341.5	6893.5	2381.4
82.5°	121.7	143.7	316.5	672.1	1913.9	4095.7	4178.4	2498.3	2067.3	903.4
85°	39.0	51.1	146.1	309.2	808.4	1017.8	1005.7	594.1	832.8	491.9
87.5°	0.0	0.0	48.7	70.6	82.8	58.4	65.7	51.1	231.3	136.4
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°
3908.2	0°	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2
3956.9	2.5°	3927.6	3888.7	3820.5	3757.2	3701.2	3645.2	3611.1	3562.4	3557.5	3557.5
4020.2	5°	3954.4	3891.1	3769.4	3640.3	3491.8	3350.5	3209.3	3073.0	3029.1	2997.5
4122.4	7.5°	4032.3	3932.5	3740.1	3494.2	3211.8	2902.5	2685.8	2452.0	2361.9	2313.2
4258.8	10°	4144.4	4008.0	3715.8	3284.8	2827.0	2405.8	2096.5	1843.3	1745.9	1704.5
4407.3	12.5°	4268.5	4100.5	3672.0	3024.3	2405.8	1901.7	1599.8	1482.9	1468.3	1468.3
4585.1	15°	4417.1	4212.5	3596.5	2717.5	1965.0	1504.8	1397.7	1402.6	1417.2	1426.9
4758.0	17.5°	4570.5	4331.9	3477.2	2374.1	1575.4	1353.9	1356.3	1363.6	1375.8	1385.5
4945.5	20°	4736.1	4451.2	3318.9	2008.9	1351.4	1310.0	1317.3	1324.6	1334.4	1339.2
5120.8	22.5°	4913.8	4563.2	3131.4	1650.9	1275.9	1273.5	1275.9	1283.2	1295.4	1295.4
5325.3	25°	5103.7	4687.4	2917.1	1390.4	1237.0	1237.0	1241.8	1246.7	1256.5	1256.5
5522.6	27.5°	5298.5	4801.8	2690.7	1254.0	1202.9	1200.5	1200.5	1207.8	1212.6	1215.1
5717.4	30°	5512.8	4935.7	2464.2	1224.8	1176.1	1163.9	1156.6	1161.5	1166.4	1168.8
5921.9	32.5°	5732.0	5064.8	2262.1	1237.0	1149.3	1127.4	1103.1	1098.2	1098.2	1107.9
6133.7	35°	5975.5	5206.0	2106.3	1278.4	1134.7	1073.8	1034.9	1013.0	1015.4	1030.0
6387.0	37.5°	6267.7	5376.5	1991.8	1314.9	1125.0	1013.0	949.6	922.9	905.8	922.9
6735.2	40°	6650.0	5627.3	1909.0	1344.1	1112.8	942.3	857.1	813.3	781.6	791.4
7275.8	42.5°	7212.4	6021.7	1877.4	1346.6	1086.0	859.6	762.2	703.7	657.4	659.9
8089.0	45°	8001.4	6645.1	2040.5	1314.9	1027.6	769.5	662.3	584.4	555.2	547.9
9304.1	47.5°	9082.5	7553.3	2417.9	1249.2	942.3	681.8	564.9	499.2	477.3	465.1
10899.0	50°	10531.3	8719.7	2836.8	1176.1	857.1	599.0	484.6	443.2	428.6	416.4
12791.0	52.5°	12211.5	9903.1	3180.1	1103.1	771.9	526.0	433.4	409.1	396.9	387.2
14617.3	55°	13752.8	10718.8	3160.6	1025.1	689.1	467.5	396.9	382.3	367.7	357.9
16190.3	57.5°	14712.2	10833.3	2605.4	939.9	594.1	421.3	362.8	353.1	336.0	323.9
17551.4	60°	15153.0	10180.7	1826.2	827.9	499.2	377.4	326.3	321.4	299.5	282.5
18839.5	62.5°	15233.3	8968.1	1217.5	689.1	416.4	336.0	289.8	282.5	253.2	224.0
19886.6	65°	14907.0	7234.4	842.5	538.1	355.5	292.2	248.4	233.8	202.1	172.9
20135.0	67.5°	13874.6	5079.4	586.8	387.2	301.9	231.3	197.2	192.4	168.0	143.7
18868.8	70°	11982.6	2895.2	392.0	289.8	238.6	158.3	155.8	160.7	136.4	116.9
15415.9	72.5°	9187.2	1324.6	243.5	211.8	163.1	107.1	124.2	126.6	104.7	87.7
9618.2	75°	5408.1	567.4	153.4	136.4	82.8	70.6	90.1	92.5	70.6	56.0
3516.1	77.5°	1840.9	214.3	97.4	80.4	41.4	39.0	58.4	58.4	39.0	21.9
706.1	80°	418.8	80.4	48.7	31.7	19.5	17.0	19.5	17.0	9.7	2.4
216.7	82.5°	119.3	31.7	19.5	12.2	7.3	7.3	2.4	0.0	0.0	0.0
75.5	85°	34.1	14.6	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
26.8	87.5°	14.6	2.4	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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180°
3908.2
3569.7
3012.1
2320.5
1704.5
1468.3
1426.9
1385.5
1341.7
1300.3
1258.9
1217.5
1173.7
1115.2
1037.3
918.0
786.5
650.1
538.1
457.8
413.9
384.7
353.1
321.4
277.6
209.4
163.1
136.4
107.1
77.9
48.7
17.0
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