

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: P956714

Luminaire Tested: **GALN-SB9B-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956714
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-SB9B-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 450mA 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: 41798 lumens
Efficiency: N/A
Efficacy: 126.9 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

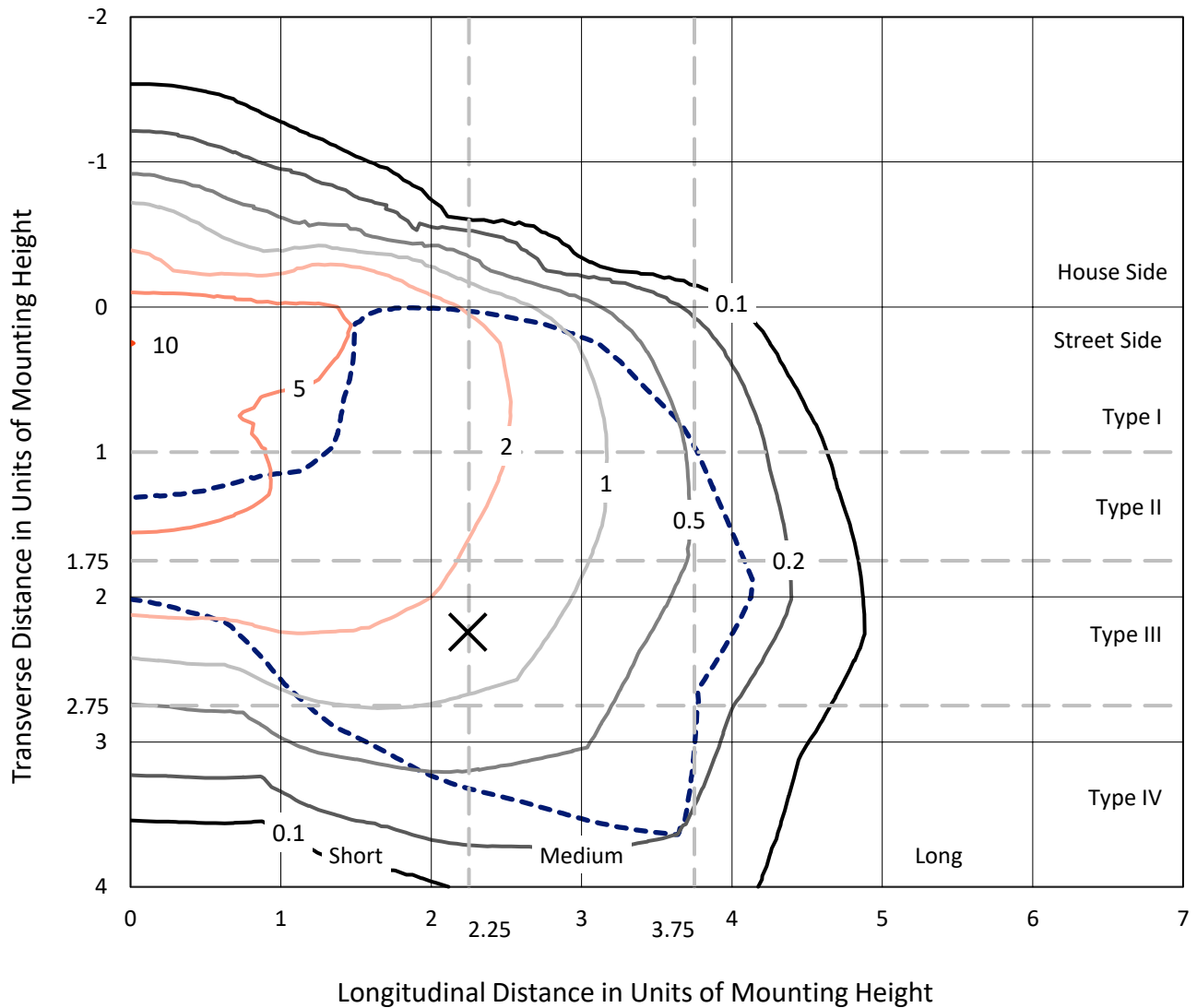
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

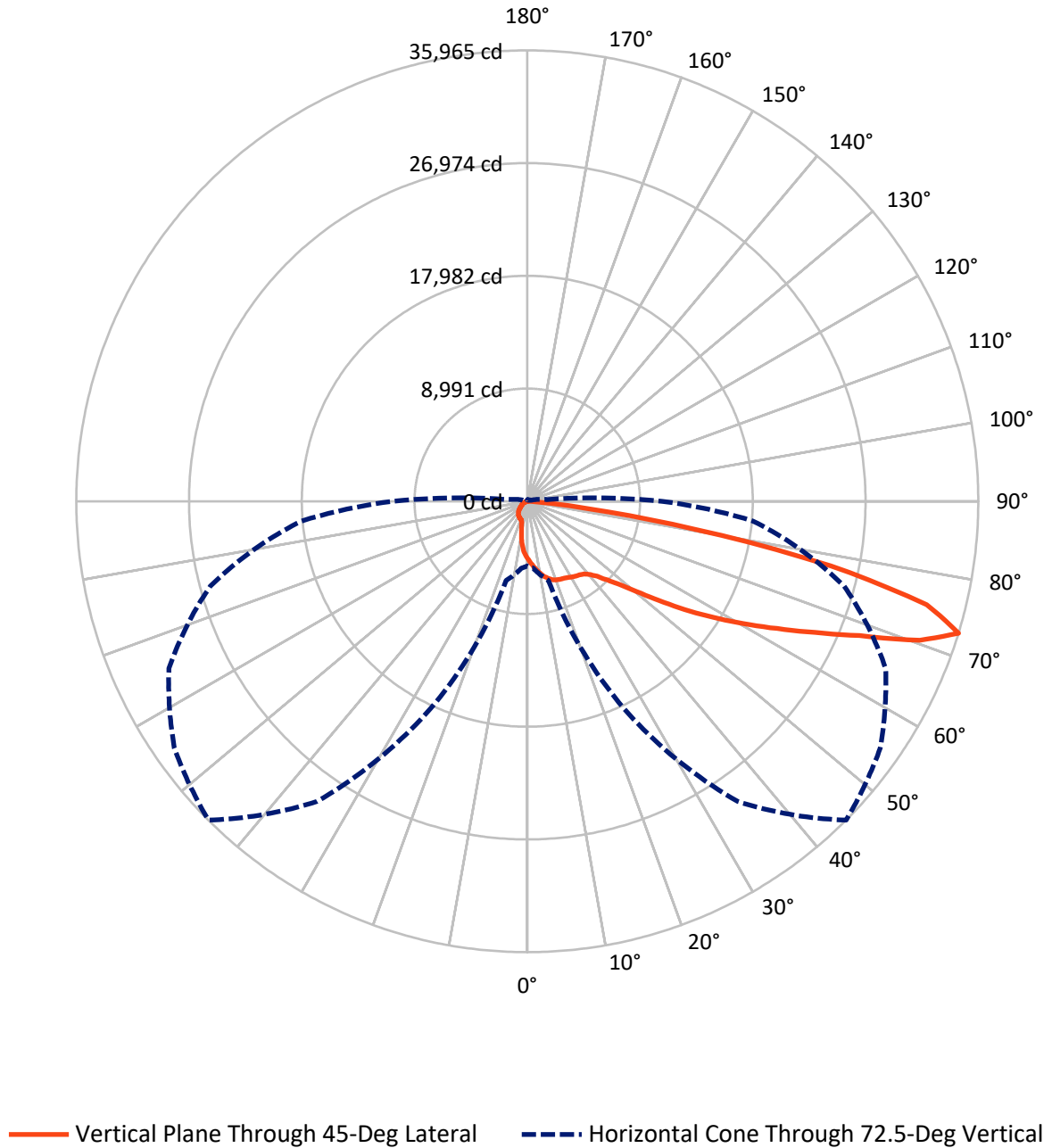
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	4391.8	0.0	4391.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	37406.2	0.0	37406.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	41798.0	0.0	41798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.4	1.0
10°-20°	1260.9	3.0
20°-30°	2070.6	5.0
30°-40°	2936.6	7.0
40°-50°	4853.9	11.6
50°-60°	8719.5	20.9
60°-70°	12107.6	29.0
70°-80°	8782.4	21.0
80°-90°	634.9	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°	41798.0	100.0
0°-180°	41798.0	100.0

Coefficient of Utilization



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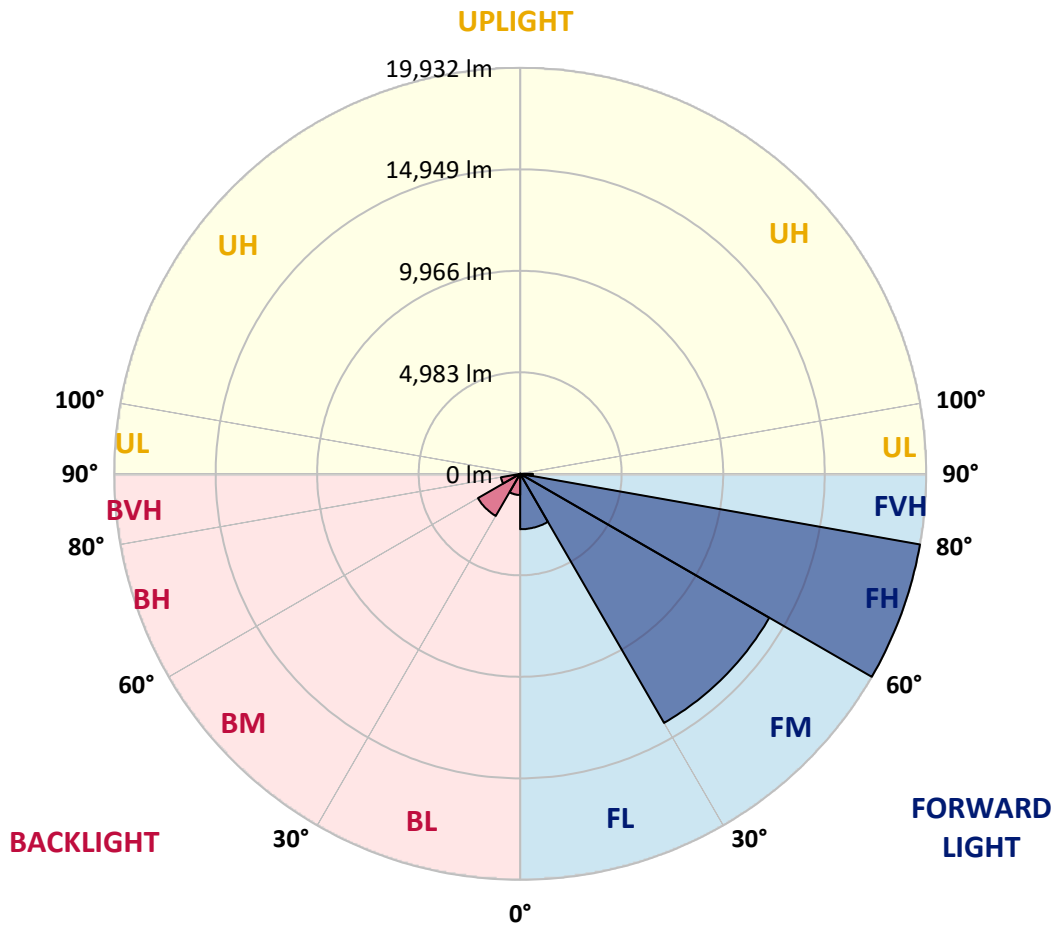
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2722.7	6.5			
FM (30°-60°)	14121.6	33.8			
FH (60°-80°)	19932.3	47.7			G5
FVH (80°-90°)	629.6	1.5			G4/750
BL (0°-30°)	1040.2	2.5	B3/2500		
BM (30°-60°)	2388.5	5.7	B2/2500		
BH (60°-80°)	957.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.3	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°	4579.1	4579.1	4579.1	4579.1	4579.1	4579.1	4579.1	4579.1	4579.1	4579.1
2.5°	5001.3	5009.9	5004.2	4969.9	4912.9	4881.5	4864.4	4807.3	4770.2	4704.6
5°	5460.6	5494.9	5474.9	5406.4	5298.0	5221.0	5198.2	5081.2	4975.6	4852.9
7.5°	5948.5	5965.6	5928.5	5840.1	5694.6	5563.3	5543.4	5380.8	5212.4	5024.1
10°	6370.7	6390.7	6333.7	6205.3	6039.8	5877.2	5848.6	5668.9	5469.2	5238.1
12.5°	6724.5	6744.5	6670.3	6516.2	6333.7	6165.3	6136.8	5948.5	5728.8	5472.0
15°	6992.7	7029.8	6929.9	6764.5	6567.6	6399.3	6385.0	6199.6	5985.6	5700.3
17.5°	7149.6	7186.7	7092.5	6892.8	6724.5	6581.9	6564.7	6410.7	6211.0	5937.1
20°	7175.3	7209.5	7109.7	6935.6	6795.8	6681.7	6673.2	6561.9	6416.4	6153.9
22.5°	7098.3	7141.1	7049.8	6910.0	6813.0	6753.0	6741.6	6678.9	6596.1	6373.6
25°	7018.4	7052.6	6984.1	6861.5	6810.1	6804.4	6813.0	6801.5	6784.4	6596.1
27.5°	7012.7	7049.8	6972.7	6855.8	6827.2	6887.1	6895.7	6949.9	6964.2	6798.7
30°	7061.2	7086.8	7012.7	6890.0	6875.7	7012.7	7015.5	7112.5	7135.3	6969.9
32.5°	7166.7	7195.3	7121.1	6941.3	6921.4	7112.5	7121.1	7249.5	7286.6	7152.5
35°	7414.9	7449.2	7363.6	7084.0	7012.7	7206.7	7232.3	7383.6	7457.7	7346.5
37.5°	8034.0	7934.2	7817.2	7372.1	7220.9	7355.0	7397.8	7574.7	7705.9	7577.6
40°	9571.8	9258.0	8892.8	7862.9	7586.1	7671.7	7705.9	7882.8	8062.6	7937.0
42.5°	11879.9	11509.0	10921.3	8992.6	8136.7	8179.5	8205.2	8359.3	8613.2	8513.3
45°	13936.9	13802.8	13203.7	10921.3	9166.7	8955.6	8986.9	9066.8	9440.6	9403.5
47.5°	15517.4	15440.4	14978.2	13135.2	10907.0	9905.6	9994.0	10031.1	10570.4	10701.6
50°	16732.8	16704.3	16290.6	15103.8	13180.8	11306.4	11337.8	11257.9	12065.3	12390.6
52.5°	17879.7	17976.7	17671.5	16932.5	15608.7	13140.9	13135.2	12758.6	13848.4	14339.2
55°	18915.4	18949.6	18981.0	18798.4	18050.9	15229.3	15175.1	14558.8	15916.9	16424.7
57.5°	19888.2	19902.5	20182.1	20555.8	20592.9	17471.8	17371.9	16633.0	18176.4	18538.8
60°	20541.6	20607.2	21197.8	22236.3	22689.9	19785.5	19731.3	18978.1	20476.0	20644.3
62.5°	19600.1	19999.5	21488.8	23548.6	24669.9	22350.4	22324.7	21617.2	22895.3	22758.4
65°	15865.5	16541.7	19160.7	24435.9	26612.8	25214.8	25251.9	24498.7	25380.3	24935.2
67.5°	11098.2	11811.4	14909.8	24507.2	28783.9	28578.5	28792.4	27611.3	28019.3	27020.7
70°	7674.6	8042.6	10059.7	22972.3	30475.7	33211.7	33206.0	31434.3	30644.0	27970.8
72.5°	5161.1	5352.2	6533.4	18224.9	29231.8	35964.9	35799.4	34355.8	31528.5	26159.1
75°	2176.8	2316.6	3024.2	10242.3	23126.4	32903.6	32455.7	30361.6	28013.6	20598.6
77.5°	690.4	750.3	1192.6	3666.1	12738.6	24732.6	24259.0	18961.0	18775.6	10333.6
80°	328.1	382.3	670.5	1472.1	5012.7	13451.9	13386.3	8601.8	8076.8	2790.2
82.5°	142.6	168.3	370.9	787.4	2242.5	4798.7	4895.7	2927.2	2422.2	1058.5
85°	45.6	59.9	171.2	362.3	947.2	1192.6	1178.3	696.1	975.7	576.3
87.5°	0.0	0.0	57.1	82.7	97.0	68.5	77.0	59.9	271.0	159.8
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°
4579.1	0°	4579.1	4579.1	4579.1	4579.1	4579.1	4579.1	4579.1	4579.1	4579.1	4579.1
4636.1	2.5°	4601.9	4556.2	4476.4	4402.2	4336.6	4270.9	4231.0	4173.9	4168.2	4168.2
4710.3	5°	4633.3	4559.1	4416.4	4265.2	4091.2	3925.7	3760.2	3600.5	3549.1	3512.0
4830.1	7.5°	4724.6	4607.6	4382.2	4094.1	3763.1	3400.8	3146.9	2873.0	2767.4	2710.3
4989.9	10°	4855.8	4696.0	4353.7	3848.7	3312.3	2818.8	2456.4	2159.7	2045.6	1997.1
5163.9	12.5°	5001.3	4804.4	4302.3	3543.4	2818.8	2228.2	1874.4	1737.5	1720.4	1720.4
5372.2	15°	5175.3	4935.7	4213.9	3183.9	2302.4	1763.2	1637.6	1643.3	1660.4	1671.9
5574.8	17.5°	5355.1	5075.5	4074.1	2781.7	1845.9	1586.3	1589.1	1597.7	1611.9	1623.4
5794.4	20°	5549.1	5215.3	3888.6	2353.7	1583.4	1534.9	1543.5	1552.0	1563.4	1569.1
5999.9	22.5°	5757.3	5346.5	3669.0	1934.3	1495.0	1492.1	1495.0	1503.5	1517.8	1517.8
6239.5	25°	5979.9	5492.0	3417.9	1629.1	1449.3	1449.3	1455.0	1460.7	1472.1	1472.1
6470.6	27.5°	6208.1	5626.1	3152.6	1469.3	1409.4	1406.5	1406.5	1415.1	1420.8	1423.6
6698.8	30°	6459.2	5783.0	2887.2	1435.1	1378.0	1363.7	1355.2	1360.9	1366.6	1369.4
6938.5	32.5°	6716.0	5934.2	2650.4	1449.3	1346.6	1320.9	1292.4	1286.7	1286.7	1298.1
7186.7	35°	7001.3	6099.7	2467.8	1497.8	1329.5	1258.2	1212.5	1186.8	1189.7	1206.8
7483.4	37.5°	7343.6	6299.4	2333.8	1540.6	1318.1	1186.8	1112.7	1081.3	1061.3	1081.3
7891.4	40°	7791.5	6593.3	2236.7	1574.9	1303.8	1104.1	1004.3	952.9	915.8	927.2
8524.8	42.5°	8450.6	7055.5	2199.7	1577.7	1272.4	1007.1	893.0	824.5	770.3	773.2
9477.7	45°	9374.9	7785.8	2390.8	1540.6	1204.0	901.5	776.0	684.7	650.5	641.9
10901.3	47.5°	10641.7	8850.0	2833.0	1463.6	1104.1	798.8	661.9	584.9	559.2	544.9
12770.0	50°	12339.2	10216.6	3323.7	1378.0	1004.3	701.8	567.7	519.2	502.1	487.9
14986.8	52.5°	14307.8	11603.1	3726.0	1292.4	904.4	616.2	507.8	479.3	465.0	453.6
17126.5	55°	16113.7	12558.9	3703.2	1201.1	807.4	547.8	465.0	447.9	430.8	419.4
18969.6	57.5°	17237.8	12693.0	3052.7	1101.3	696.1	493.6	425.1	413.7	393.7	379.4
20564.4	60°	17754.2	11928.4	2139.7	970.0	584.9	442.2	382.3	376.6	350.9	330.9
22073.6	62.5°	17848.3	10507.6	1426.5	807.4	487.9	393.7	339.5	330.9	296.7	262.5
23300.4	65°	17466.0	8476.3	987.1	630.5	416.5	342.4	291.0	273.9	236.8	202.6
23591.4	67.5°	16256.4	5951.4	687.6	453.6	353.8	271.0	231.1	225.4	196.9	168.3
22107.9	70°	14039.6	3392.2	459.3	339.5	279.6	185.4	182.6	188.3	159.8	136.9
18062.3	72.5°	10764.4	1552.0	285.3	248.2	191.2	125.5	145.5	148.4	122.7	102.7
11269.3	75°	6336.5	664.7	179.7	159.8	97.0	82.7	105.6	108.4	82.7	65.6
4119.7	77.5°	2156.9	251.1	114.1	94.1	48.5	45.6	68.5	68.5	45.6	25.7
827.4	80°	490.7	94.1	57.1	37.1	22.8	20.0	22.8	20.0	11.4	2.9
253.9	82.5°	139.8	37.1	22.8	14.3	8.6	8.6	2.9	0.0	0.0	0.0
88.4	85°	39.9	17.1	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
31.4	87.5°	17.1	2.9	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°
4579.1
4182.5
3529.2
2718.9
1997.1
1720.4
1671.9
1623.4
1572.0
1523.5
1475.0
1426.5
1375.1
1306.7
1215.4
1075.6
921.5
761.8
630.5
536.4
485.0
450.8
413.7
376.6
325.2
245.4
191.2
159.8
125.5
91.3
57.1
20.0
0.0
0.0
0.0
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