

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: P956231

Luminaire Tested: **GALN-SB8D-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956231
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-SB8D-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 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: 45930 lumens
Efficiency: N/A
Efficacy: 78.5 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

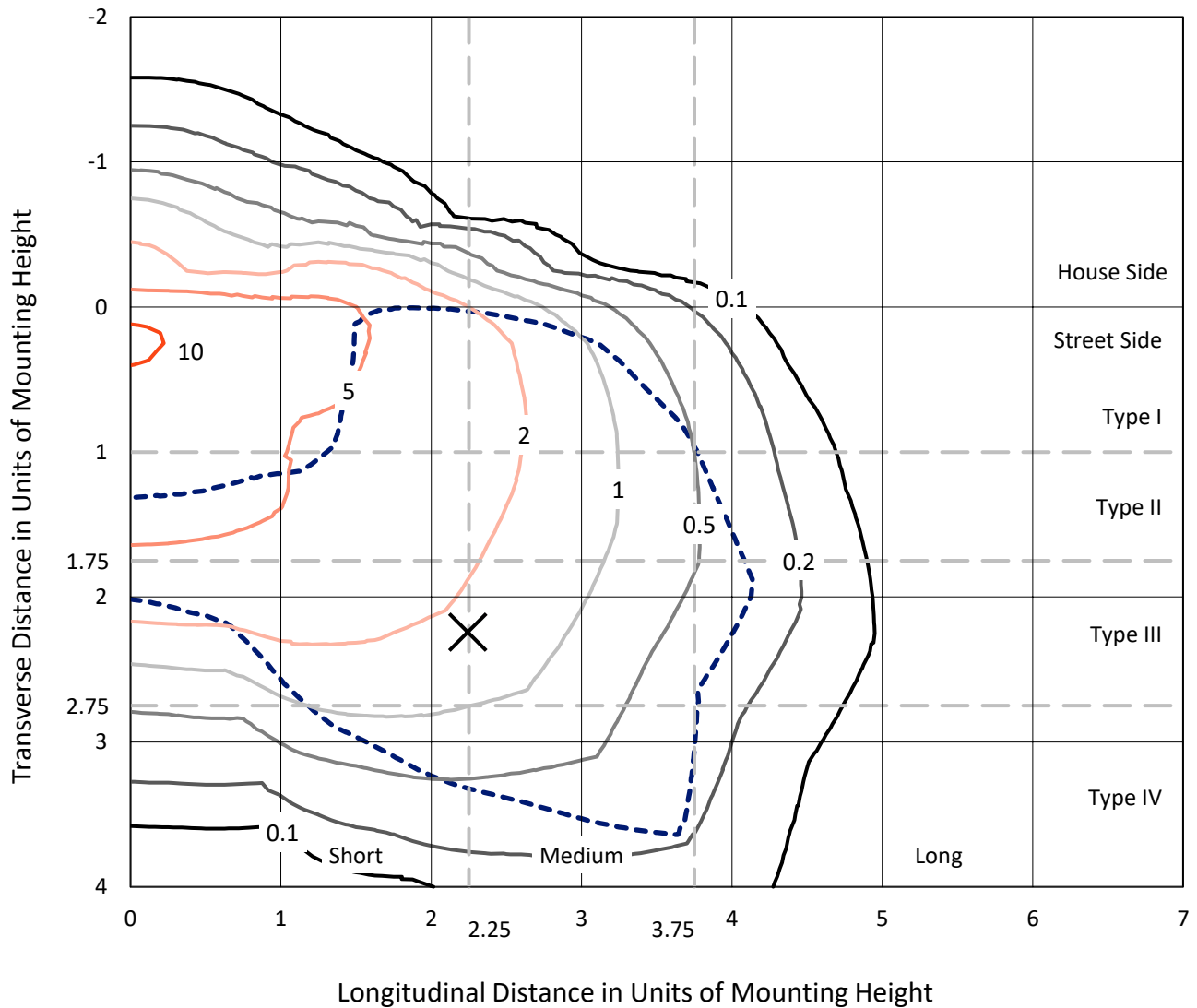
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

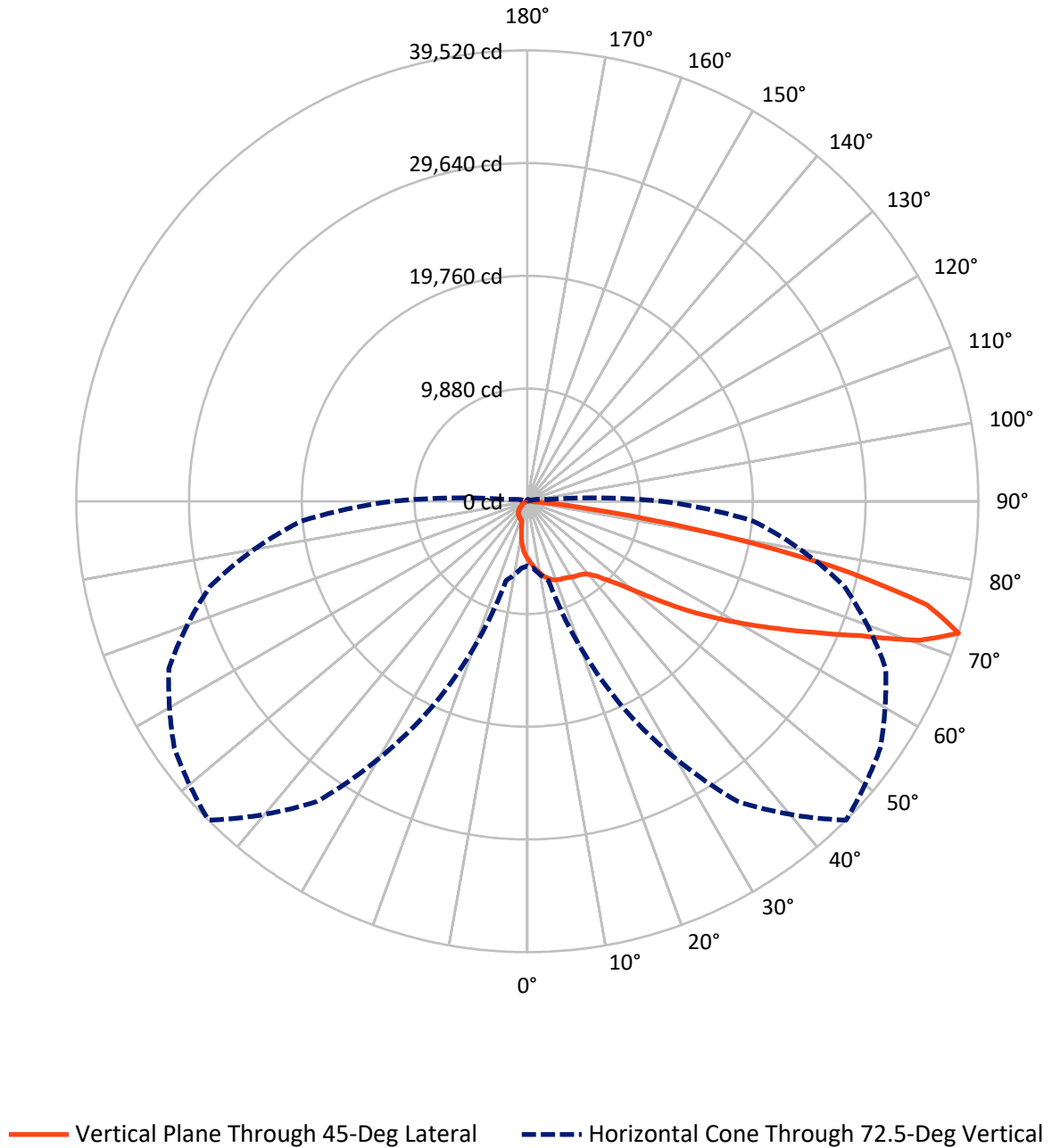
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	4826.0	0.0	4826.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	41104.0	0.0	41104.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	45930.0	0.0	45930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.1	1.0
10°-20°	1385.6	3.0
20°-30°	2275.3	5.0
30°-40°	3226.9	7.0
40°-50°	5333.8	11.6
50°-60°	9581.5	20.9
60°-70°	13304.5	29.0
70°-80°	9650.6	21.0
80°-90°	697.7	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°	45930.0	100.0
0°-180°	45930.0	100.0

Coefficient of Utilization



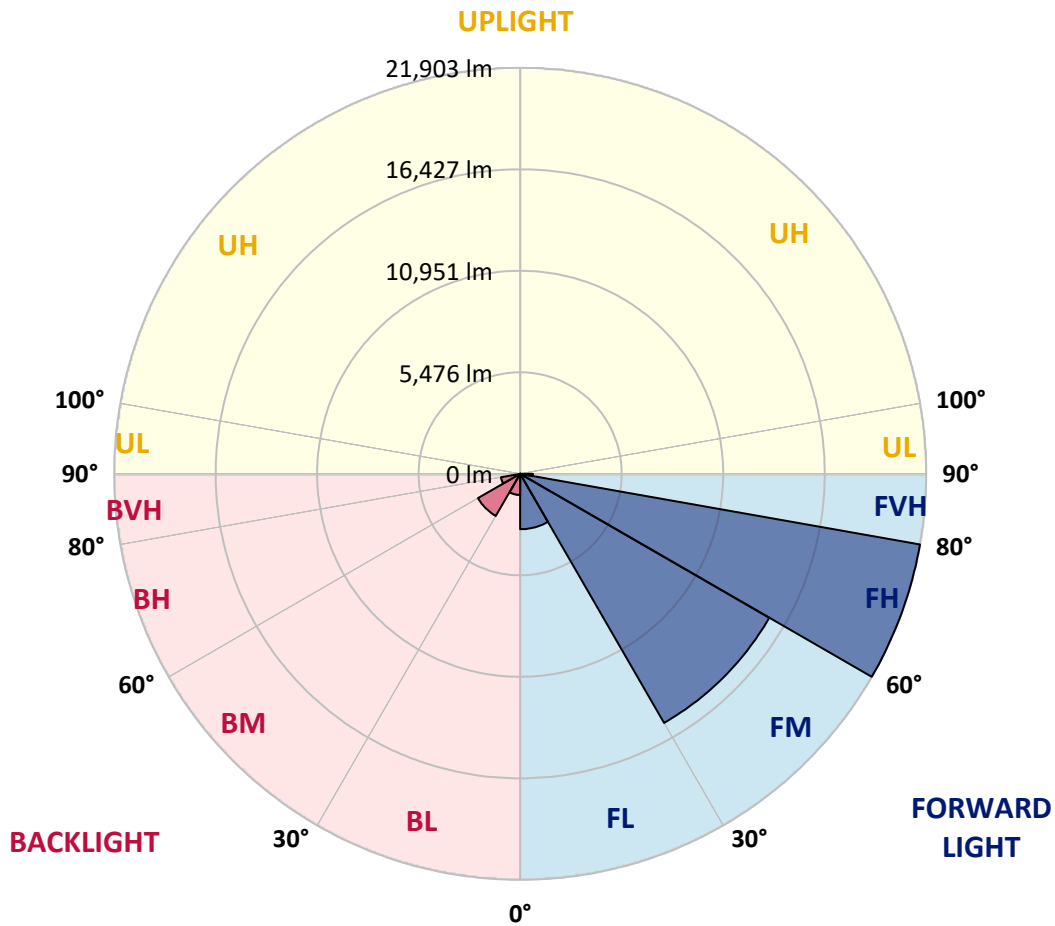
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2991.9	6.5			
FM (30°-60°)	15517.6	33.8			
FH (60°-80°)	21902.7	47.7			G5
FVH (80°-90°)	691.8	1.5			G4/750
BL (0°-30°)	1143.1	2.5	B3/2500		
BM (30°-60°)	2624.6	5.7	B3/5000		
BH (60°-80°)	1052.4	2.3	B3/2500		G3/2500
BVH (80°-90°)	5.9	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°	5031.7	5031.7	5031.7	5031.7	5031.7	5031.7	5031.7	5031.7	5031.7	5031.7
2.5°	5495.7	5505.1	5498.8	5461.2	5398.5	5364.0	5345.2	5282.5	5241.8	5169.7
5°	6000.5	6038.1	6016.1	5940.9	5821.8	5737.1	5712.0	5583.5	5467.5	5332.7
7.5°	6536.5	6555.4	6514.6	6417.4	6257.5	6113.3	6091.4	5912.7	5727.7	5520.8
10°	7000.5	7022.5	6959.8	6818.7	6636.9	6458.2	6426.8	6229.3	6009.9	5755.9
12.5°	7389.3	7411.2	7329.7	7160.4	6959.8	6774.8	6743.5	6536.5	6295.1	6013.0
15°	7684.0	7724.7	7615.0	7433.2	7216.8	7031.9	7016.2	6812.4	6577.3	6263.8
17.5°	7856.4	7897.2	7793.7	7574.2	7389.3	7232.5	7213.7	7044.4	6825.0	6524.0
20°	7884.6	7922.2	7812.5	7621.3	7467.7	7342.2	7332.8	7210.6	7050.7	6762.3
22.5°	7800.0	7847.0	7746.7	7593.1	7486.5	7420.6	7408.1	7339.1	7248.2	7003.7
25°	7712.2	7749.8	7674.6	7539.8	7483.3	7477.1	7486.5	7473.9	7455.1	7248.2
27.5°	7705.9	7746.7	7662.0	7533.5	7502.1	7568.0	7577.4	7636.9	7652.6	7470.8
30°	7759.2	7787.4	7705.9	7571.1	7555.4	7705.9	7709.0	7815.6	7840.7	7658.9
32.5°	7875.2	7906.6	7825.0	7627.5	7605.6	7815.6	7825.0	7966.1	8006.9	7859.5
35°	8148.0	8185.6	8091.5	7784.3	7705.9	7919.1	7947.3	8113.5	8195.0	8072.7
37.5°	8828.3	8718.5	8590.0	8100.9	7934.8	8082.1	8129.1	8323.5	8467.7	8326.6
40°	10518.0	10173.2	9771.9	8640.2	8336.1	8430.1	8467.7	8662.1	8859.6	8721.7
42.5°	13054.3	12646.7	12000.9	9881.6	8941.1	8988.1	9016.4	9185.6	9464.7	9354.9
45°	15314.6	15167.3	14508.9	12000.9	10072.9	9840.9	9875.4	9963.1	10373.8	10333.1
47.5°	17051.4	16966.8	16458.9	14433.7	11985.2	10884.8	10982.0	11022.8	11615.3	11759.5
50°	18387.0	18355.6	17901.0	16596.9	14483.9	12424.1	12458.6	12370.8	13258.1	13615.5
52.5°	19647.3	19753.8	19418.4	18606.4	17151.8	14440.0	14433.7	14019.9	15217.5	15756.7
55°	20785.3	20822.9	20857.4	20656.7	19835.4	16734.8	16675.2	15998.1	17490.4	18048.4
57.5°	21854.3	21870.0	22177.2	22587.9	22628.7	19198.9	19089.2	18277.2	19973.3	20371.4
60°	22572.2	22644.3	23293.3	24434.5	24932.9	21741.5	21681.9	20854.2	22500.1	22685.1
62.5°	21537.7	21976.6	23613.1	25876.6	27108.6	24559.9	24531.6	23754.2	25158.6	25008.2
65°	17433.9	18176.9	21054.9	26851.6	29243.6	27707.4	27748.2	26920.5	27889.3	27400.2
67.5°	12195.3	12979.0	16383.7	26929.9	31629.4	31403.6	31638.8	30340.9	30789.2	29691.9
70°	8433.2	8837.7	11054.1	25243.3	33488.4	36494.9	36488.7	34541.8	33673.4	30735.9
72.5°	5671.3	5881.3	7179.2	20026.6	32121.6	39520.2	39338.4	37752.1	34645.3	28745.1
75°	2392.0	2545.6	3323.1	11254.8	25412.6	36156.3	35664.1	33363.0	30782.9	22634.9
77.5°	758.7	824.5	1310.4	4028.5	13997.9	27177.6	26657.2	20835.4	20631.7	11355.1
80°	360.5	420.1	736.7	1617.7	5508.3	14781.7	14709.6	9452.1	8875.3	3066.1
82.5°	156.8	185.0	407.6	865.3	2464.1	5273.1	5379.7	3216.5	2661.6	1163.1
85°	50.2	65.8	188.1	398.1	1040.8	1310.4	1294.8	764.9	1072.2	633.3
87.5°	0.0	0.0	62.7	90.9	106.6	75.2	84.6	65.8	297.8	175.6
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°
5031.7	0°	5031.7	5031.7	5031.7	5031.7	5031.7	5031.7	5031.7	5031.7	5031.7	5031.7
5094.4	2.5°	5056.8	5006.6	4918.9	4837.4	4765.3	4693.1	4649.3	4586.6	4580.3	4580.3
5175.9	5°	5091.3	5009.8	4853.0	4686.9	4495.6	4313.8	4132.0	3956.4	3900.0	3859.2
5307.6	7.5°	5191.6	5063.1	4815.4	4498.8	4135.1	3737.0	3457.9	3157.0	3041.0	2978.3
5483.2	10°	5335.8	5160.3	4784.1	4229.2	3639.8	3097.4	2699.3	2373.2	2247.8	2194.5
5674.4	12.5°	5495.7	5279.4	4727.6	3893.7	3097.4	2448.5	2059.7	1909.2	1890.4	1890.4
5903.3	15°	5687.0	5423.6	4630.4	3498.7	2530.0	1937.5	1799.5	1805.8	1824.6	1837.1
6125.9	17.5°	5884.5	5577.2	4476.8	3056.7	2028.4	1743.1	1746.2	1755.6	1771.3	1783.8
6367.3	20°	6097.6	5730.8	4273.1	2586.4	1739.9	1686.6	1696.1	1705.5	1718.0	1724.3
6593.0	22.5°	6326.5	5875.1	4031.7	2125.6	1642.8	1639.6	1642.8	1652.2	1667.8	1667.8
6856.3	25°	6571.0	6034.9	3755.8	1790.1	1592.6	1592.6	1598.9	1605.1	1617.7	1617.7
7110.3	27.5°	6821.8	6182.3	3464.2	1614.5	1548.7	1545.6	1545.6	1555.0	1561.2	1564.4
7361.1	30°	7097.7	6354.7	3172.7	1576.9	1514.2	1498.5	1489.1	1495.4	1501.7	1504.8
7624.4	32.5°	7379.9	6520.9	2912.4	1592.6	1479.7	1451.5	1420.2	1413.9	1413.9	1426.4
7897.2	35°	7693.4	6702.7	2711.8	1645.9	1460.9	1382.5	1332.4	1304.2	1307.3	1326.1
8223.2	37.5°	8069.6	6922.2	2564.5	1692.9	1448.4	1304.2	1222.7	1188.2	1166.2	1188.2
8671.5	40°	8561.8	7245.1	2457.9	1730.5	1432.7	1213.3	1103.5	1047.1	1006.3	1018.9
9367.5	42.5°	9286.0	7752.9	2417.1	1733.7	1398.2	1106.7	981.3	906.0	846.5	849.6
10414.6	45°	10301.7	8555.5	2627.2	1692.9	1323.0	990.7	852.7	752.4	714.8	705.4
11979.0	47.5°	11693.7	9724.9	3113.1	1608.3	1213.3	877.8	727.3	642.7	614.5	598.8
14032.4	50°	13559.0	11226.6	3652.3	1514.2	1103.5	771.2	623.9	570.6	551.8	536.1
16468.3	52.5°	15722.2	12750.2	4094.4	1420.2	993.8	677.2	558.0	526.7	511.0	498.5
18819.6	55°	17706.7	13800.4	4069.3	1319.8	887.2	601.9	511.0	492.2	473.4	460.8
20844.8	57.5°	18941.9	13947.8	3354.5	1210.1	764.9	542.4	467.1	454.6	432.6	417.0
22597.3	60°	19509.3	13107.6	2351.3	1065.9	642.7	485.9	420.1	413.8	385.6	363.7
24255.8	62.5°	19612.8	11546.3	1567.5	887.2	536.1	432.6	373.1	363.7	326.0	288.4
25603.8	65°	19192.7	9314.2	1084.7	692.8	457.7	376.2	319.8	301.0	260.2	222.6
25923.6	67.5°	17863.4	6539.7	755.5	498.5	388.7	297.8	253.9	247.7	216.3	185.0
24293.4	70°	15427.5	3727.6	504.7	373.1	307.2	203.8	200.6	206.9	175.6	150.5
19847.9	72.5°	11828.5	1705.5	313.5	272.7	210.0	137.9	159.9	163.0	134.8	112.9
12383.4	75°	6962.9	730.5	197.5	175.6	106.6	90.9	116.0	119.1	90.9	72.1
4527.0	77.5°	2370.1	275.9	125.4	103.5	53.3	50.2	75.2	75.2	50.2	28.2
909.2	80°	539.2	103.5	62.7	40.8	25.1	21.9	25.1	21.9	12.5	3.1
279.0	82.5°	153.6	40.8	25.1	15.7	9.4	9.4	3.1	0.0	0.0	0.0
97.2	85°	43.9	18.8	6.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0
34.5	87.5°	18.8	3.1	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>
5031.7
4596.0
3878.0
2987.7
2194.5
1890.4
1837.1
1783.8
1727.4
1674.1
1620.8
1567.5
1511.1
1435.8
1335.5
1181.9
1012.6
837.1
692.8
589.4
533.0
495.3
454.6
413.8
357.4
269.6
210.0
175.6
137.9
100.3
62.7
21.9
0.0
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