

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: P953123

Luminaire Tested: **GALN-SB6D-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953123
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-SB6D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 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: 47533 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

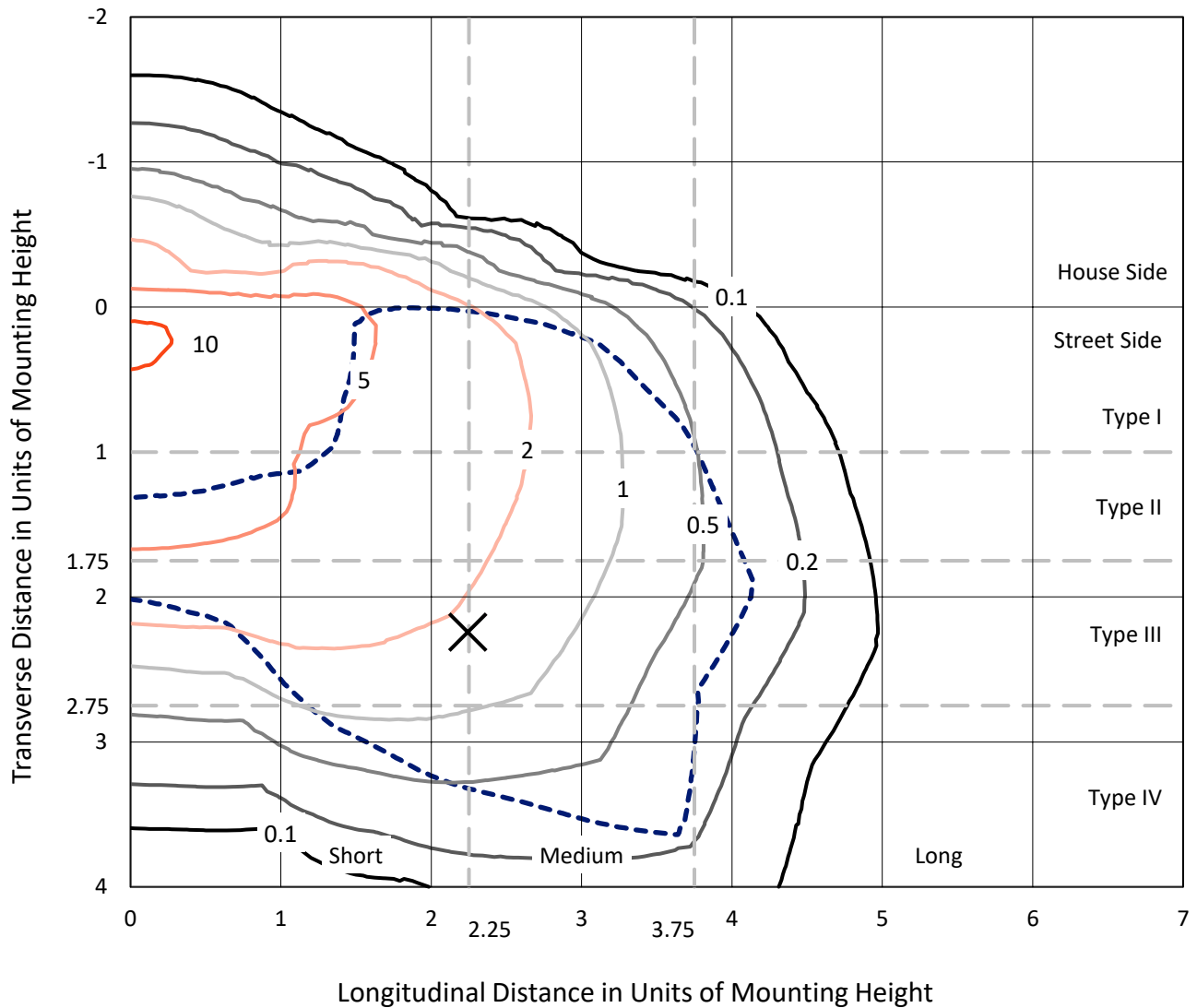
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

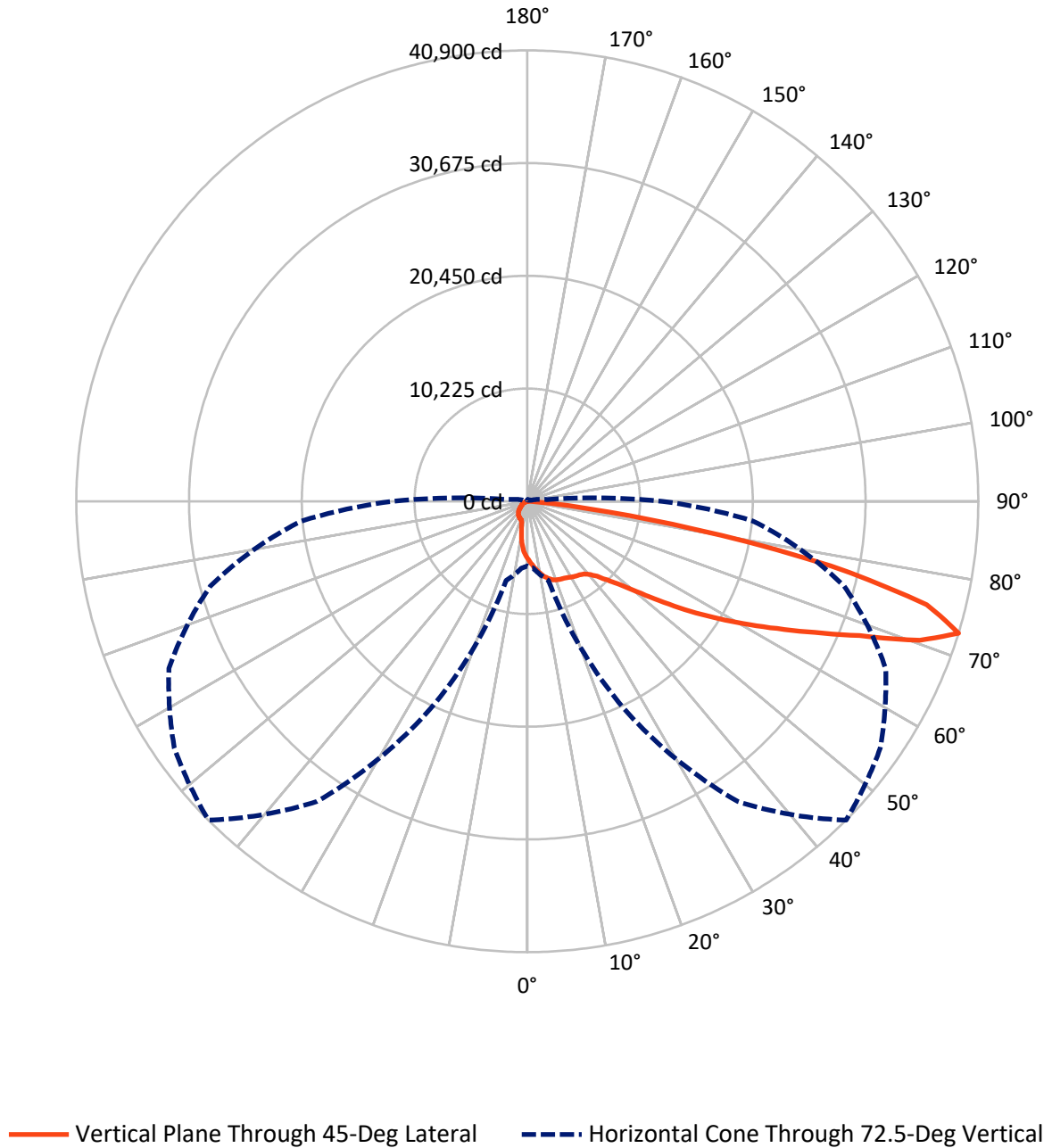
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	4994.4	0.0	4994.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	42538.6	0.0	42538.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	47533.0	0.0	47533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.6	1.0
10°-20°	1433.9	3.0
20°-30°	2354.7	5.0
30°-40°	3339.5	7.0
40°-50°	5519.9	11.6
50°-60°	9915.9	20.9
60°-70°	13768.8	29.0
70°-80°	9987.5	21.0
80°-90°	722.1	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°	47533.0	100.0
0°-180°	47533.0	100.0

Coefficient of Utilization



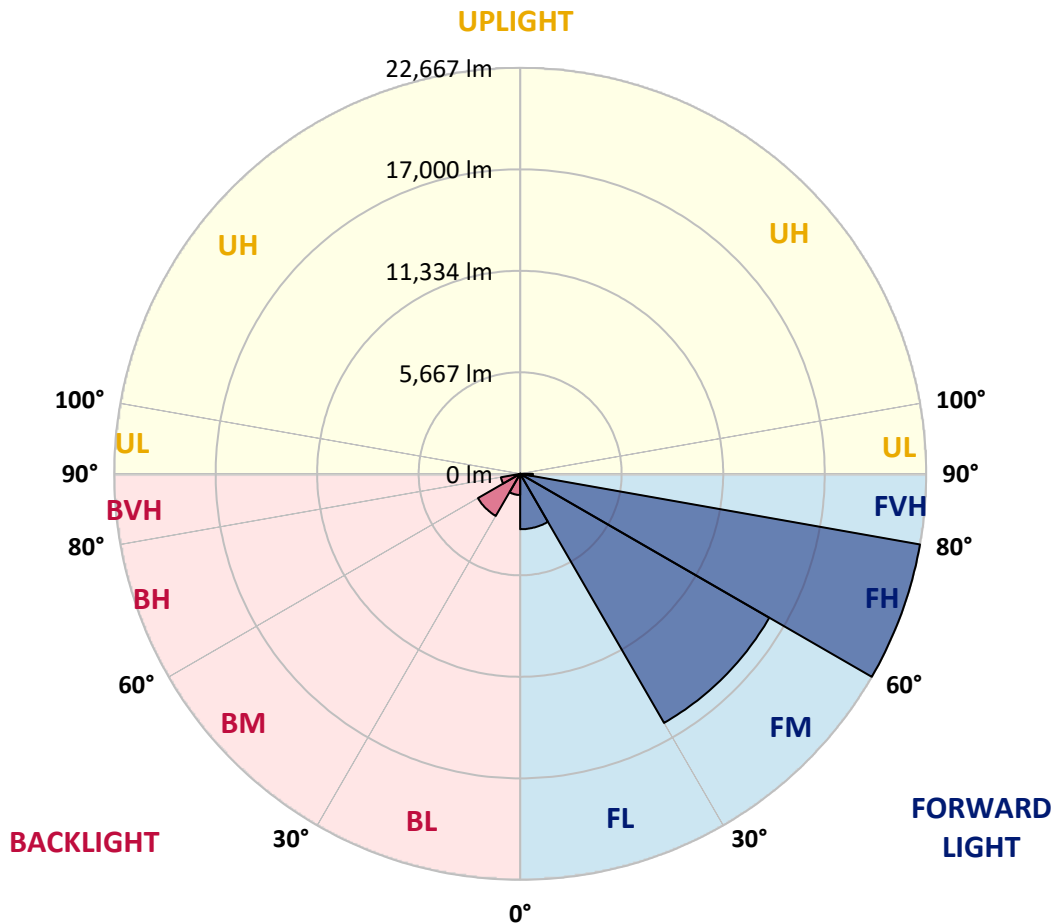
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3096.3	6.5			
FM (30°-60°)	16059.2	33.8			
FH (60°-80°)	22667.1	47.7			G5
FVH (80°-90°)	716.0	1.5			G4/750
BL (0°-30°)	1183.0	2.5	B3/2500		
BM (30°-60°)	2716.2	5.7	B3/5000		
BH (60°-80°)	1089.1	2.3	B3/2500		G3/2500
BVH (80°-90°)	6.1	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°	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3
2.5°	5687.5	5697.3	5690.8	5651.8	5586.9	5551.3	5531.8	5466.9	5424.7	5350.1
5°	6209.9	6248.8	6226.1	6148.2	6024.9	5937.3	5911.4	5778.4	5658.3	5518.8
7.5°	6764.7	6784.1	6742.0	6641.4	6475.9	6326.7	6304.0	6119.0	5927.6	5713.5
10°	7244.9	7267.6	7202.7	7056.7	6868.5	6683.6	6651.1	6446.7	6219.6	5956.8
12.5°	7647.2	7669.9	7585.5	7410.3	7202.7	7011.3	6978.8	6764.7	6514.9	6222.9
15°	7952.1	7994.3	7880.8	7692.6	7468.7	7277.3	7261.1	7050.2	6806.9	6482.4
17.5°	8130.6	8172.8	8065.7	7838.6	7647.2	7484.9	7465.5	7290.3	7063.2	6751.7
20°	8159.8	8198.7	8085.2	7887.3	7728.3	7598.5	7588.8	7462.2	7296.8	6998.3
22.5°	8072.2	8120.9	8017.0	7858.1	7747.7	7679.6	7666.6	7595.3	7501.2	7248.1
25°	7981.3	8020.3	7942.4	7802.9	7744.5	7738.0	7747.7	7734.8	7715.3	7501.2
27.5°	7974.9	8017.0	7929.4	7796.4	7764.0	7832.1	7841.8	7903.5	7919.7	7731.5
30°	8030.0	8059.2	7974.9	7835.3	7819.1	7974.9	7978.1	8088.4	8114.4	7926.2
32.5°	8150.1	8182.5	8098.1	7893.7	7871.0	8088.4	8098.1	8244.1	8286.3	8133.8
35°	8432.3	8471.3	8373.9	8056.0	7974.9	8195.5	8224.7	8396.6	8481.0	8354.5
37.5°	9136.4	9022.8	8889.8	8383.7	8211.7	8364.2	8412.9	8614.0	8763.3	8617.3
40°	10885.1	10528.2	10112.9	8941.7	8627.0	8724.3	8763.3	8964.4	9168.8	9026.1
42.5°	13509.9	13088.1	12419.8	10226.5	9253.2	9301.8	9331.0	9506.2	9795.0	9681.4
45°	15849.1	15696.6	15015.3	12419.8	10424.4	10184.3	10220.0	10310.9	10735.9	10693.7
47.5°	17646.6	17559.0	17033.4	14937.4	12403.5	11264.7	11365.3	11407.5	12020.7	12169.9
50°	19028.7	18996.3	18525.8	17176.1	14989.4	12857.8	12893.4	12802.6	13720.8	14090.6
52.5°	20333.0	20443.3	20096.1	19255.8	17750.4	14943.9	14937.4	14509.2	15748.6	16306.6
55°	21510.7	21549.6	21585.3	21377.7	20527.6	17318.9	17257.2	16556.4	18100.8	18678.3
57.5°	22617.1	22633.3	22951.2	23376.3	23418.4	19869.0	19755.5	18915.1	20670.4	21082.4
60°	23360.0	23434.7	24106.3	25287.2	25803.1	22500.3	22438.6	21582.1	23285.4	23476.8
62.5°	22289.4	22743.6	24437.2	26779.7	28054.8	25417.0	25387.8	24583.2	26036.7	25881.0
65°	18042.4	18811.3	21789.7	27788.7	30264.2	28674.4	28716.6	27860.1	28862.6	28356.5
67.5°	12620.9	13432.0	16955.5	27869.8	32733.2	32499.6	32743.0	31399.8	31863.7	30728.2
70°	8727.6	9146.1	11439.9	26124.3	34657.2	37768.6	37762.1	35747.3	34848.6	31808.6
72.5°	5869.2	6086.6	7429.8	20725.5	33242.6	40899.5	40711.4	39069.7	35854.4	29748.4
75°	2475.5	2634.5	3439.1	11647.6	26299.5	37418.2	36908.9	34527.4	31857.2	23424.9
77.5°	785.2	853.3	1356.2	4169.1	14486.5	28126.1	27587.6	21562.6	21351.7	11751.4
80°	373.1	434.8	762.4	1674.1	5700.5	15297.6	15223.0	9782.0	9185.0	3173.1
82.5°	162.2	191.4	421.8	895.5	2550.1	5457.2	5567.5	3328.8	2754.5	1203.7
85°	51.9	68.1	194.7	412.0	1077.2	1356.2	1340.0	791.6	1109.6	655.4
87.5°	0.0	0.0	64.9	94.1	110.3	77.9	87.6	68.1	308.2	181.7
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°
5207.3	0°	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3
5272.2	2.5°	5233.3	5181.4	5090.5	5006.2	4931.6	4856.9	4811.5	4746.6	4740.1	4740.1
5356.6	5°	5269.0	5184.6	5022.4	4850.5	4652.5	4464.4	4276.2	4094.5	4036.1	3993.9
5492.9	7.5°	5372.8	5239.8	4983.5	4655.8	4279.4	3867.4	3578.6	3267.2	3147.1	3082.2
5674.5	10°	5522.1	5340.4	4951.0	4376.8	3766.8	3205.5	2793.5	2456.0	2326.3	2271.1
5872.5	12.5°	5687.5	5463.7	4892.6	4029.6	3205.5	2533.9	2131.6	1975.9	1956.4	1956.4
6109.3	15°	5885.4	5612.9	4792.1	3620.8	2618.3	2005.1	1862.3	1868.8	1888.3	1901.2
6339.7	17.5°	6089.8	5771.9	4633.1	3163.3	2099.2	1803.9	1807.2	1816.9	1833.1	1846.1
6589.5	20°	6310.5	5930.9	4422.2	2676.7	1800.7	1745.5	1755.2	1765.0	1778.0	1784.4
6823.1	22.5°	6547.3	6080.1	4172.4	2199.7	1700.1	1696.8	1700.1	1709.8	1726.0	1726.0
7095.6	25°	6800.4	6245.6	3886.9	1852.6	1648.2	1648.2	1654.7	1661.2	1674.1	1674.1
7358.4	27.5°	7059.9	6398.1	3585.1	1670.9	1602.8	1599.5	1599.5	1609.2	1615.7	1619.0
7618.0	30°	7345.4	6576.5	3283.4	1632.0	1567.1	1550.8	1541.1	1547.6	1554.1	1557.3
7890.5	32.5°	7637.4	6748.5	3014.1	1648.2	1531.4	1502.2	1469.7	1463.2	1463.2	1476.2
8172.8	35°	7961.9	6936.6	2806.4	1703.3	1511.9	1430.8	1378.9	1349.7	1352.9	1372.4
8510.2	37.5°	8351.2	7163.7	2654.0	1752.0	1498.9	1349.7	1265.3	1229.6	1206.9	1229.6
8974.1	40°	8860.6	7497.9	2543.6	1790.9	1482.7	1255.6	1142.0	1083.6	1041.5	1054.4
9694.4	42.5°	9610.1	8023.5	2501.5	1794.2	1447.0	1145.3	1015.5	937.6	876.0	879.2
10778.1	45°	10661.3	8854.1	2718.8	1752.0	1369.2	1025.2	882.5	778.7	739.7	730.0
12397.0	47.5°	12101.8	10064.3	3221.7	1664.4	1255.6	908.4	752.7	665.1	635.9	619.7
14522.2	50°	14032.2	11618.4	3779.8	1567.1	1142.0	798.1	645.6	590.5	571.0	554.8
17043.1	52.5°	16270.9	13195.2	4237.3	1469.7	1028.5	700.8	577.5	545.1	528.8	515.9
19476.4	55°	18324.7	14282.1	4211.3	1365.9	918.2	622.9	528.8	509.4	489.9	476.9
21572.3	57.5°	19603.0	14434.6	3471.6	1252.4	791.6	561.3	483.4	470.4	447.7	431.5
23386.0	60°	20190.2	13565.0	2433.3	1103.1	665.1	502.9	434.8	428.3	399.1	376.4
25102.3	62.5°	20297.3	11949.3	1622.2	918.2	554.8	447.7	386.1	376.4	337.4	298.5
26497.4	65°	19862.5	9639.3	1122.6	717.0	473.7	389.3	330.9	311.5	269.3	230.4
26828.4	67.5°	18486.9	6767.9	781.9	515.9	402.3	308.2	262.8	256.3	223.9	191.4
25141.2	70°	15965.9	3857.7	522.4	386.1	318.0	210.9	207.6	214.1	181.7	155.7
20540.6	72.5°	12241.3	1765.0	324.4	282.3	217.4	142.8	165.5	168.7	139.5	116.8
12815.6	75°	7205.9	756.0	204.4	181.7	110.3	94.1	120.0	123.3	94.1	74.6
4685.0	77.5°	2452.8	285.5	129.8	107.1	55.2	51.9	77.9	77.9	51.9	29.2
940.9	80°	558.0	107.1	64.9	42.2	26.0	22.7	26.0	22.7	13.0	3.2
288.8	82.5°	159.0	42.2	26.0	16.2	9.7	9.7	3.2	0.0	0.0	0.0
100.6	85°	45.4	19.5	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0
35.7	87.5°	19.5	3.2	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°
5207.3
4756.4
4013.4
3092.0
2271.1
1956.4
1901.2
1846.1
1787.7
1732.5
1677.4
1622.2
1563.8
1486.0
1382.1
1223.2
1048.0
866.3
717.0
610.0
551.6
512.6
470.4
428.3
369.9
279.0
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103.8
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