

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: P955643

Luminaire Tested: **GALN-SB8C-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955643
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-SB8C-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 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: 49351 lumens
Efficiency: N/A
Efficacy: 123.4 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

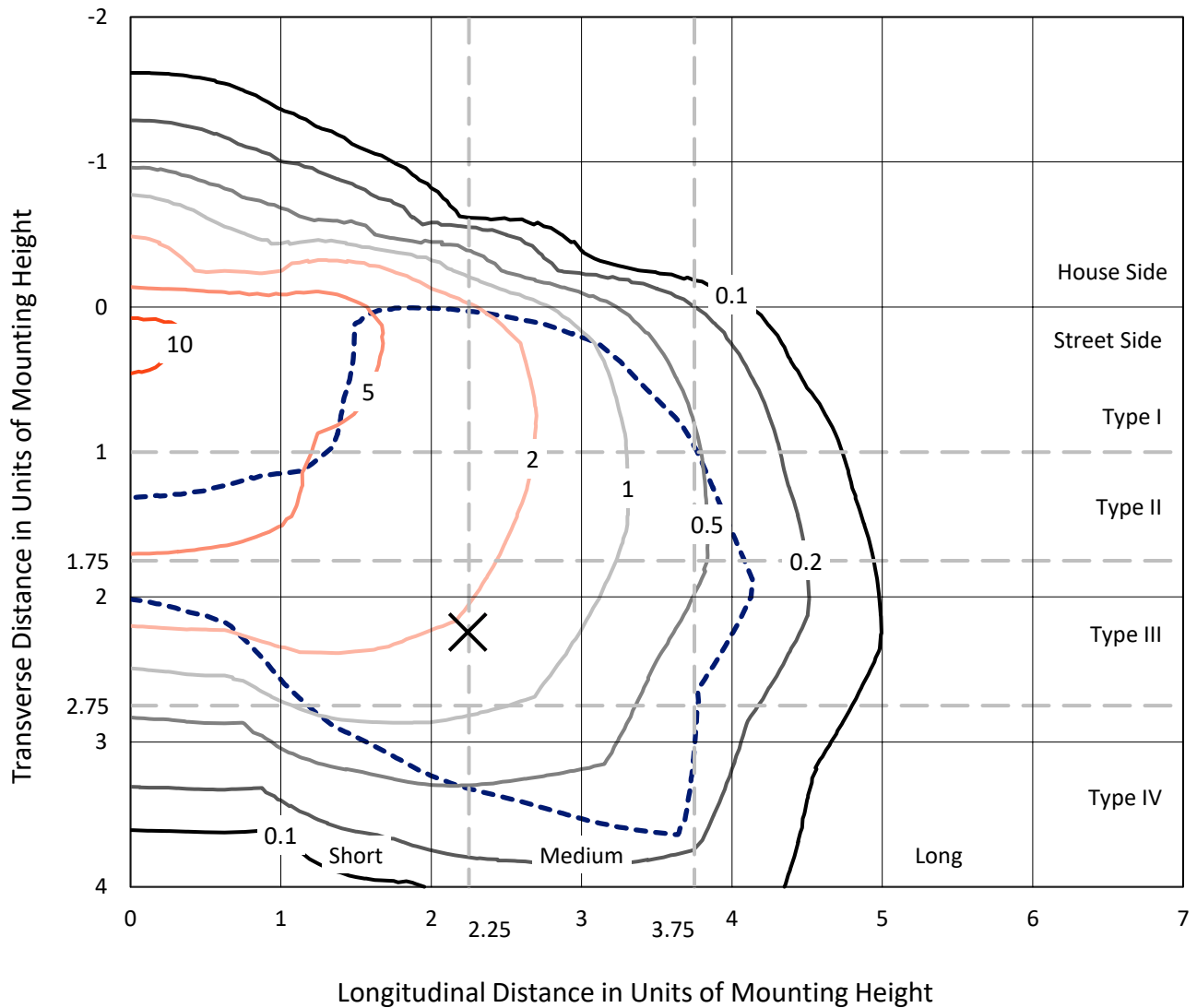
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955643
 CATALOG NUMBER: GALN-SB8C-740-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

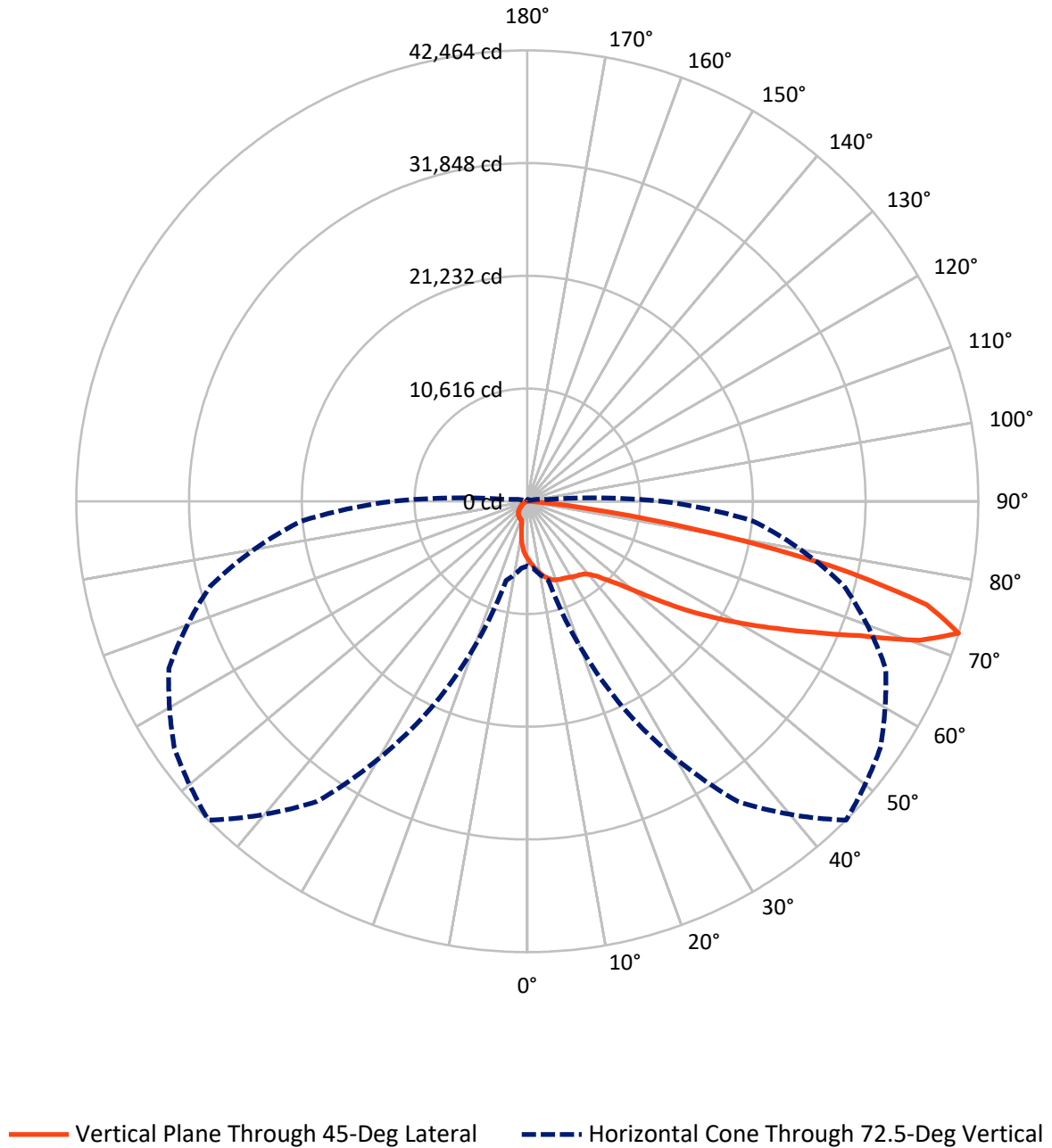
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P955643
CATALOG NUMBER: GALN-SB8C-740-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5185.4	0.0	5185.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	44165.6	0.0	44165.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	49351.0	0.0	49351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.4	1.0
10°-20°	1488.8	3.0
20°-30°	2444.8	5.0
30°-40°	3467.3	7.0
40°-50°	5731.1	11.6
50°-60°	10295.2	20.9
60°-70°	14295.4	29.0
70°-80°	10369.4	21.0
80°-90°	749.7	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°	49351.0	100.0
0°-180°	49351.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955643

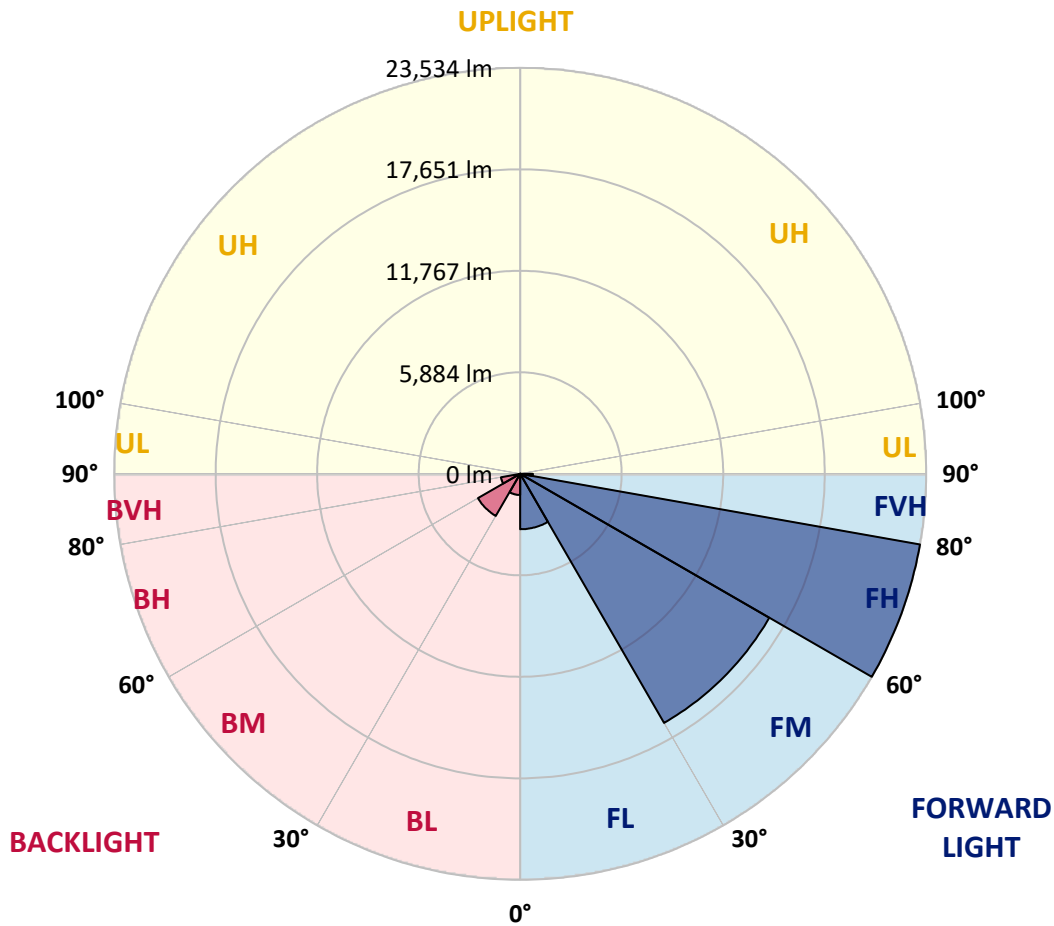
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3214.7	6.5			
FM (30°-60°)	16673.4	33.8			
FH (60°-80°)	23534.1	47.7			G5
FVH (80°-90°)	743.4	1.5			G4/750
BL (0°-30°)	1228.2	2.5	B3/2500		
BM (30°-60°)	2820.1	5.7	B3/5000		
BH (60°-80°)	1130.8	2.3	B3/2500		G3/2500
BVH (80°-90°)	6.3	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



REPORT NUMBER: P955643

CATALOG NUMBER: GALN-SB8C-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5406.5	5406.5	5406.5	5406.5	5406.5	5406.5	5406.5	5406.5	5406.5	5406.5
2.5°	5905.1	5915.2	5908.4	5868.0	5800.6	5763.6	5743.4	5676.0	5632.2	5554.7
5°	6447.4	6487.8	6464.2	6383.4	6255.4	6164.4	6137.5	5999.4	5874.7	5729.9
7.5°	7023.4	7043.6	6999.8	6895.4	6723.6	6568.7	6545.1	6353.1	6154.3	5932.0
10°	7522.0	7545.5	7478.2	7326.6	7131.2	6939.2	6905.5	6693.3	6457.5	6184.6
12.5°	7939.6	7963.2	7875.6	7693.7	7478.2	7279.4	7245.7	7023.4	6764.0	6460.9
15°	8256.3	8300.1	8182.2	7986.8	7754.4	7555.6	7538.8	7319.8	7067.2	6730.3
17.5°	8441.6	8485.4	8374.2	8138.4	7939.6	7771.2	7751.0	7569.1	7333.3	7009.9
20°	8471.9	8512.3	8394.4	8188.9	8023.9	7889.1	7879.0	7747.6	7575.8	7265.9
22.5°	8380.9	8431.5	8323.7	8158.6	8044.1	7973.3	7959.9	7885.8	7788.1	7525.3
25°	8286.6	8327.0	8246.2	8101.3	8040.7	8034.0	8044.1	8030.6	8010.4	7788.1
27.5°	8279.9	8323.7	8232.7	8094.6	8060.9	8131.7	8141.8	8205.8	8222.6	8027.2
30°	8337.1	8367.5	8279.9	8135.0	8118.2	8279.9	8283.2	8397.8	8424.7	8229.3
32.5°	8461.8	8495.5	8407.9	8195.7	8172.1	8397.8	8407.9	8559.5	8603.3	8444.9
35°	8754.8	8795.3	8694.2	8364.1	8279.9	8508.9	8539.2	8717.8	8805.4	8674.0
37.5°	9485.8	9367.9	9229.8	8704.3	8525.8	8684.1	8734.6	8943.5	9098.4	8946.8
40°	11301.5	10930.9	10499.7	9283.7	8956.9	9058.0	9098.4	9307.3	9519.5	9371.3
42.5°	14026.6	13588.7	12894.8	10617.6	9607.1	9657.6	9687.9	9869.8	10169.6	10051.7
45°	16455.3	16297.0	15589.6	12894.8	10823.1	10573.8	10610.9	10705.2	11146.5	11102.7
47.5°	18321.5	18230.5	17684.8	15508.8	12877.9	11695.6	11800.0	11843.8	12480.4	12635.4
50°	19756.5	19722.8	19234.4	17833.1	15562.7	13349.5	13386.6	13292.3	14245.6	14629.6
52.5°	21110.6	21225.2	20864.7	19992.3	18429.3	15515.5	15508.8	15064.1	16350.9	16930.3
55°	22333.4	22373.8	22410.9	22195.3	21312.8	17981.3	17917.3	17189.7	18793.1	19392.7
57.5°	23482.1	23498.9	23829.1	24270.3	24314.1	20628.9	20511.0	19638.6	21461.0	21888.8
60°	24253.5	24331.0	25028.3	26254.4	26790.0	23360.8	23296.8	22407.5	24176.0	24374.8
62.5°	23141.9	23613.5	25371.8	27803.9	29127.8	26389.1	26358.8	25523.4	27032.5	26870.8
65°	18732.5	19530.8	22623.1	28851.5	31421.7	29771.2	29814.9	28925.7	29966.5	29441.0
67.5°	13103.6	13945.8	17604.0	28935.8	33985.2	33742.7	33995.3	32600.7	33082.4	31903.4
70°	9061.4	9495.9	11877.5	27123.5	35982.7	39213.2	39206.4	37114.6	36181.5	33025.2
72.5°	6093.7	6319.4	7714.0	21518.2	34514.1	42463.8	42268.4	40564.0	37225.7	30886.1
75°	2570.2	2735.3	3570.7	12093.1	27305.4	38849.4	38320.5	35848.0	33075.7	24320.9
77.5°	815.2	885.9	1408.0	4328.6	15040.5	29201.9	28642.7	22387.3	22168.4	12200.9
80°	387.4	451.4	791.6	1738.2	5918.5	15882.7	15805.2	10156.1	9536.3	3294.4
82.5°	168.4	198.7	437.9	929.7	2647.7	5665.9	5780.4	3456.1	2859.9	1249.7
85°	53.9	70.7	202.1	427.8	1118.4	1408.0	1391.2	821.9	1152.0	680.4
87.5°	0.0	0.0	67.4	97.7	114.5	80.8	91.0	70.7	320.0	188.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955643
 CATALOG NUMBER: GALN-SB8C-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5406.5	0°	5406.5	5406.5	5406.5	5406.5	5406.5	5406.5	5406.5	5406.5	5406.5	5406.5
5473.9	2.5°	5433.5	5379.6	5285.2	5197.7	5120.2	5042.7	4995.5	4928.2	4921.4	4921.4
5561.5	5°	5470.5	5382.9	5214.5	5036.0	4830.5	4635.1	4439.7	4251.1	4190.5	4146.7
5702.9	7.5°	5578.3	5440.2	5174.1	4833.9	4443.1	4015.3	3715.5	3392.1	3267.5	3200.1
5891.6	10°	5733.3	5544.6	5140.4	4544.2	3910.9	3328.1	2900.3	2550.0	2415.2	2358.0
6097.1	12.5°	5905.1	5672.6	5079.8	4183.7	3328.1	2630.8	2213.1	2051.4	2031.2	2031.2
6343.0	15°	6110.5	5827.6	4975.3	3759.3	2718.4	2081.8	1933.5	1940.3	1960.5	1974.0
6582.1	17.5°	6322.7	5992.6	4810.3	3284.3	2179.4	1872.9	1876.3	1886.4	1903.2	1916.7
6841.5	20°	6551.8	6157.7	4591.3	2779.0	1869.5	1812.3	1822.4	1832.5	1846.0	1852.7
7084.0	22.5°	6797.7	6312.6	4331.9	2283.9	1765.1	1761.7	1765.1	1775.2	1792.1	1792.1
7367.0	25°	7060.5	6484.4	4035.5	1923.4	1711.2	1711.2	1718.0	1724.7	1738.2	1738.2
7639.8	27.5°	7329.9	6642.8	3722.2	1734.8	1664.1	1660.7	1660.7	1670.8	1677.5	1680.9
7909.3	30°	7626.4	6828.0	3409.0	1694.4	1627.0	1610.2	1600.1	1606.8	1613.5	1616.9
8192.3	32.5°	7929.5	7006.6	3129.4	1711.2	1590.0	1559.6	1525.9	1519.2	1519.2	1532.7
8485.4	35°	8266.4	7201.9	2913.8	1768.5	1569.7	1485.5	1431.6	1401.3	1404.7	1424.9
8835.7	37.5°	8670.6	7437.7	2755.5	1819.0	1556.3	1401.3	1313.7	1276.7	1253.1	1276.7
9317.4	40°	9199.5	7784.7	2640.9	1859.4	1539.4	1303.6	1185.7	1125.1	1081.3	1094.8
10065.2	42.5°	9977.6	8330.4	2597.1	1862.8	1502.4	1189.1	1054.4	973.5	909.5	912.9
11190.3	45°	11069.0	9192.7	2822.8	1819.0	1421.5	1064.5	916.2	808.4	768.0	757.9
12871.2	47.5°	12564.7	10449.2	3345.0	1728.1	1303.6	943.2	781.5	690.6	660.2	643.4
15077.6	50°	14568.9	12062.7	3924.3	1627.0	1185.7	828.7	670.3	613.1	592.9	576.0
17694.9	52.5°	16893.2	13699.9	4399.3	1525.9	1067.8	727.6	599.6	565.9	549.1	535.6
20221.3	55°	19025.5	14828.3	4372.4	1418.2	953.3	646.8	549.1	528.9	508.6	495.2
22397.4	57.5°	20352.7	14986.6	3604.3	1300.3	821.9	582.8	501.9	488.4	464.9	448.0
24280.4	60°	20962.4	14083.9	2526.4	1145.3	690.6	522.1	451.4	444.6	414.3	390.8
26062.4	62.5°	21073.6	12406.3	1684.3	953.3	576.0	464.9	400.9	390.8	350.3	309.9
27510.9	65°	20622.2	10007.9	1165.5	744.4	491.8	404.2	343.6	323.4	279.6	239.2
27854.5	67.5°	19193.9	7026.8	811.8	535.6	417.7	320.0	272.9	266.1	232.4	198.7
26102.8	70°	16576.6	4005.2	542.3	400.9	330.1	219.0	215.6	222.3	188.6	161.7
21326.2	72.5°	12709.5	1832.5	336.9	293.1	225.7	148.2	171.8	175.2	144.8	121.3
13305.7	75°	7481.5	784.9	212.2	188.6	114.5	97.7	124.6	128.0	97.7	77.5
4864.2	77.5°	2546.6	296.4	134.7	111.2	57.3	53.9	80.8	80.8	53.9	30.3
976.9	80°	579.4	111.2	67.4	43.8	26.9	23.6	26.9	23.6	13.5	3.4
299.8	82.5°	165.1	43.8	26.9	16.8	10.1	10.1	3.4	0.0	0.0	0.0
104.4	85°	47.2	20.2	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0
37.1	87.5°	20.2	3.4	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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<u>180°</u>
5406.5
4938.3
4166.9
3210.2
2358.0
2031.2
1974.0
1916.7
1856.1
1798.8
1741.5
1684.3
1623.6
1542.8
1435.0
1269.9
1088.0
899.4
744.4
633.3
572.7
532.2
488.4
444.6
384.0
289.7
225.7
188.6
148.2
<i>107.8</i>
67.4
23.6
0.0
0.0
0.0
0.0
0.0

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