

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: P957596

Luminaire Tested: **GALN-SB9D-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957596
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-SB9D-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 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: 43458 lumens
Efficiency: N/A
Efficacy: 66.0 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

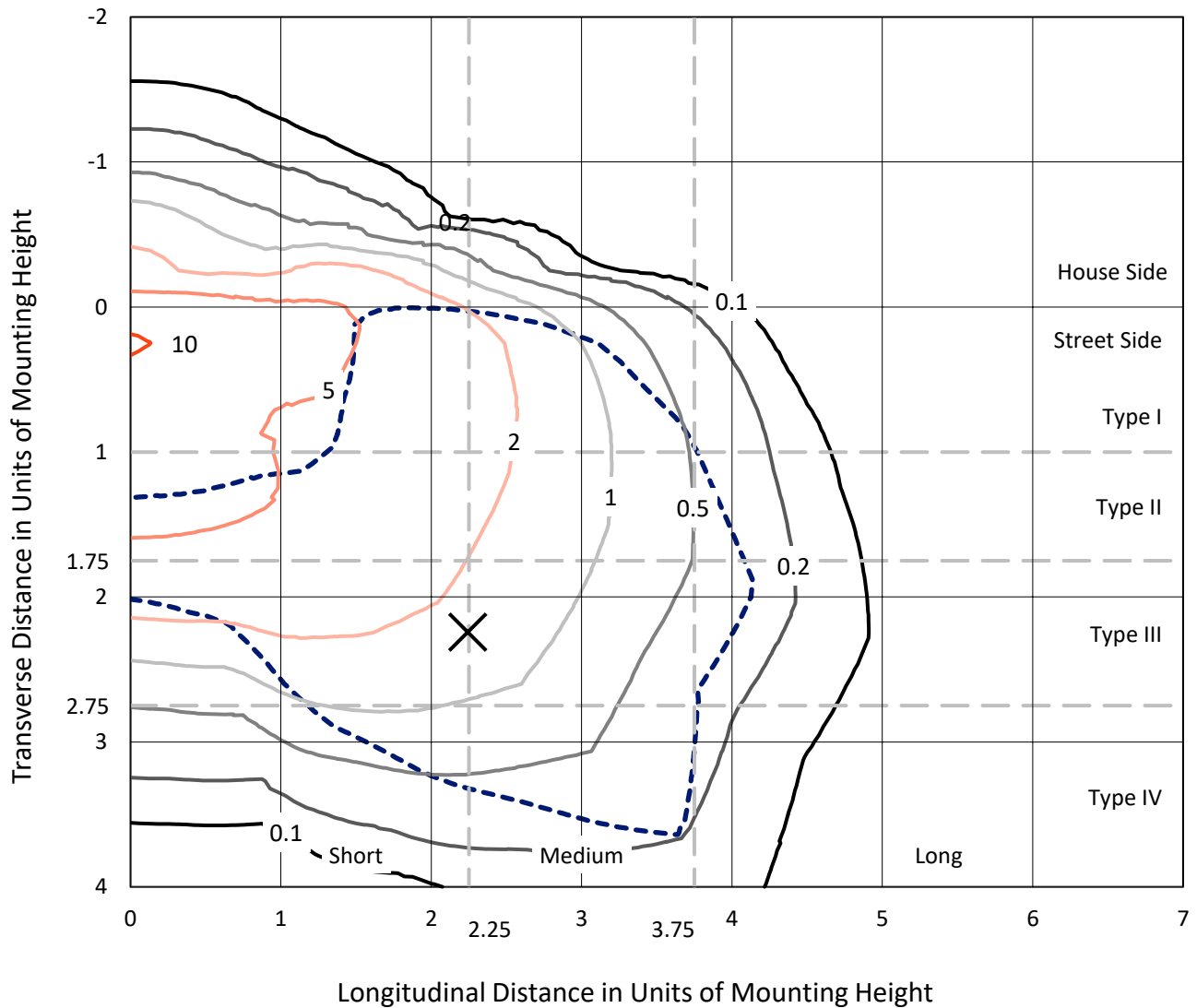
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957596
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Iso-Footcandle Lines of Horizontal Illumination

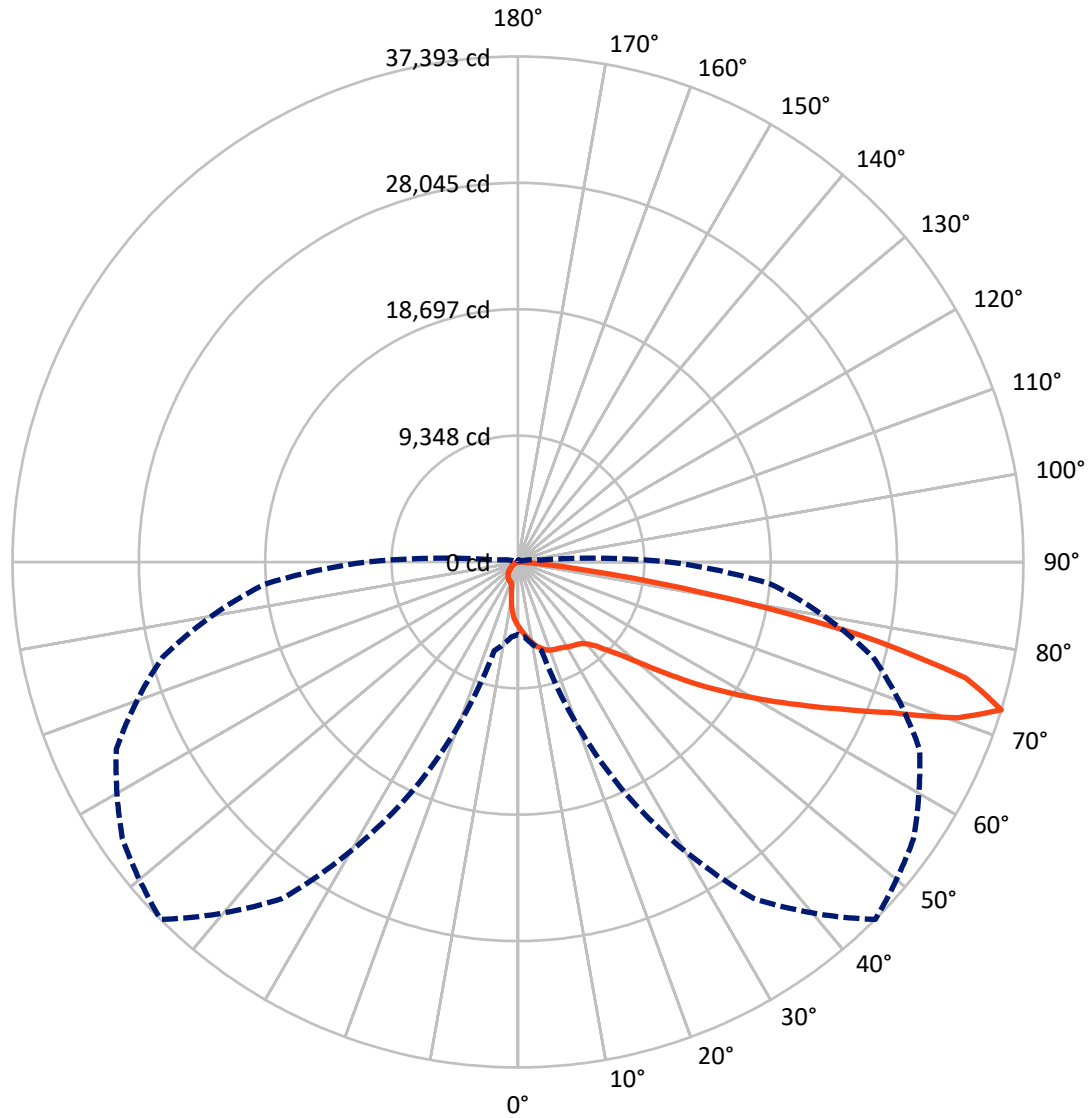
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P957596
CATALOG NUMBER: GALN-SB9D-927-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4566.2	0.0	4566.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	38891.8	0.0	38891.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	43458.0	0.0	43458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.6	1.0
10°-20°	1311.0	3.0
20°-30°	2152.9	5.0
30°-40°	3053.2	7.0
40°-50°	5046.7	11.6
50°-60°	9065.8	20.9
60°-70°	12588.4	29.0
70°-80°	9131.2	21.0
80°-90°	660.2	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°	43458.0	100.0
0°-180°	43458.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957596

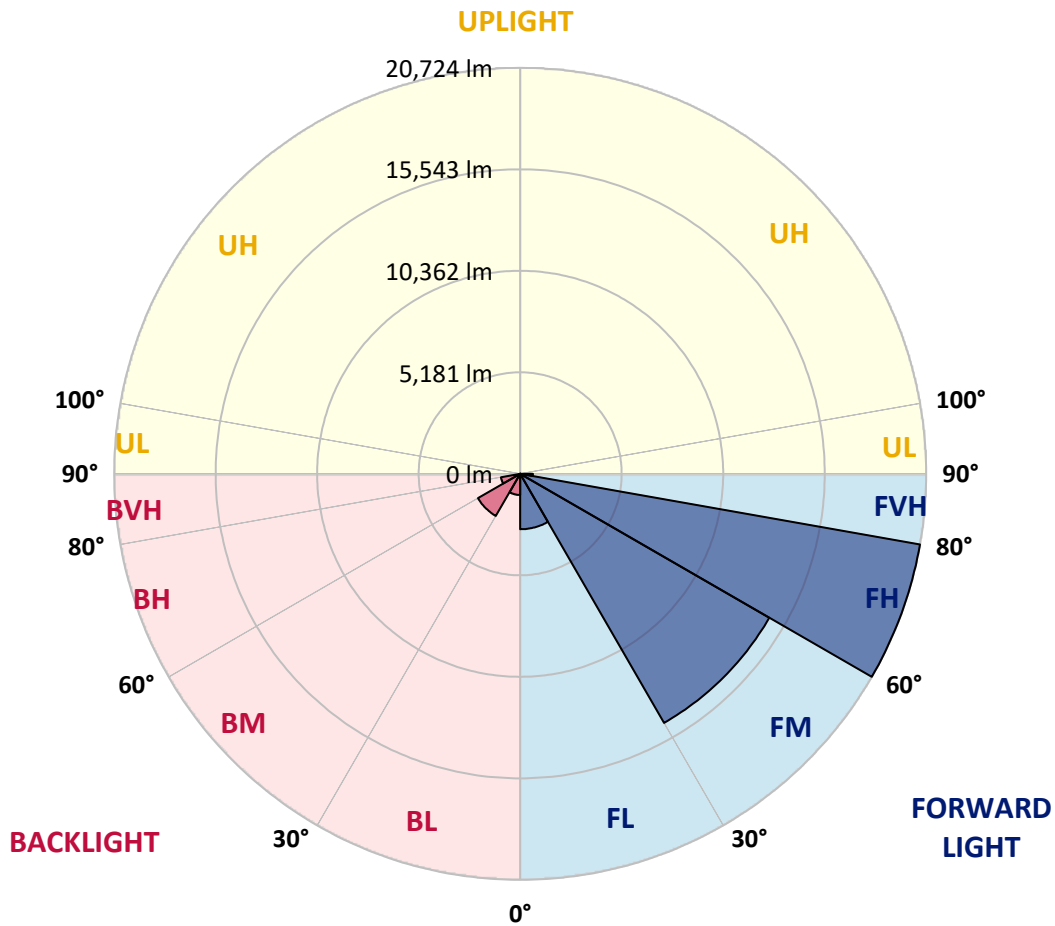
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2830.9	6.5			
FM (30°-60°)	14682.4	33.8			
FH (60°-80°)	20723.9	47.7			G5
FVH (80°-90°)	654.6	1.5			G4/750
BL (0°-30°)	1081.6	2.5	B3/2500		
BM (30°-60°)	2483.4	5.7	B2/2500		
BH (60°-80°)	995.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.5	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: P957596
 CATALOG NUMBER: GALN-SB9D-927-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4760.9	4760.9	4760.9	4760.9	4760.9	4760.9	4760.9	4760.9	4760.9	4760.9
2.5°	5199.9	5208.8	5202.9	5167.3	5108.0	5075.3	5057.5	4998.2	4959.7	4891.4
5°	5677.5	5713.1	5692.3	5621.1	5508.4	5428.3	5404.6	5283.0	5173.2	5045.7
7.5°	6184.7	6202.5	6164.0	6072.0	5920.7	5784.3	5763.5	5594.4	5419.4	5223.7
10°	6623.8	6644.5	6585.2	6451.7	6279.7	6110.6	6080.9	5894.0	5686.4	5446.1
12.5°	6991.6	7012.3	6935.2	6775.0	6585.2	6410.2	6380.5	6184.7	5956.3	5689.4
15°	7270.4	7309.0	7205.2	7033.1	6828.4	6653.4	6638.6	6445.8	6223.3	5926.7
17.5°	7433.6	7472.1	7374.2	7166.6	6991.6	6843.3	6825.5	6665.3	6457.6	6172.9
20°	7460.3	7495.8	7392.0	7211.1	7065.7	6947.1	6938.2	6822.5	6671.2	6398.3
22.5°	7380.2	7424.7	7329.7	7184.4	7083.5	7021.2	7009.4	6944.1	6858.1	6626.7
25°	7297.1	7332.7	7261.5	7134.0	7080.6	7074.6	7083.5	7071.7	7053.9	6858.1
27.5°	7291.2	7329.7	7249.6	7128.0	7098.4	7160.7	7169.6	7225.9	7240.7	7068.7
30°	7341.6	7368.3	7291.2	7163.6	7148.8	7291.2	7294.1	7395.0	7418.7	7246.7
32.5°	7451.4	7481.0	7403.9	7217.0	7196.3	7395.0	7403.9	7537.4	7575.9	7436.5
35°	7709.4	7745.0	7656.0	7365.3	7291.2	7492.9	7519.6	7676.8	7753.9	7638.2
37.5°	8353.1	8249.3	8127.7	7664.9	7507.7	7647.1	7691.6	7875.5	8012.0	7878.5
40°	9951.9	9625.7	9246.0	8175.1	7887.4	7976.4	8012.0	8195.9	8382.8	8252.3
42.5°	12351.7	11966.1	11355.0	9349.8	8459.9	8504.4	8531.1	8691.3	8955.3	8851.4
45°	14490.4	14351.0	13728.1	11355.0	9530.7	9311.2	9343.9	9426.9	9815.5	9776.9
47.5°	16133.7	16053.6	15573.1	13656.9	11340.2	10299.0	10391.0	10429.5	10990.2	11126.6
50°	17397.4	17367.7	16937.6	15703.6	13704.3	11755.5	11788.1	11705.0	12544.5	12882.7
52.5°	18589.8	18690.7	18373.3	17605.0	16228.6	13662.8	13656.9	13265.3	14398.4	14908.6
55°	19666.6	19702.2	19734.8	19545.0	18767.8	15834.1	15777.8	15137.0	16549.0	17077.0
57.5°	20678.1	20692.9	20983.6	21372.2	21410.8	18165.6	18061.8	17293.5	18898.3	19275.0
60°	21357.4	21425.6	22039.6	23119.4	23591.0	20571.3	20515.0	19731.8	21289.2	21464.2
62.5°	20378.5	20793.8	22342.2	24483.9	25649.6	23238.0	23211.3	22475.7	23804.6	23662.2
65°	16495.6	17198.6	19921.7	25406.4	27669.7	26216.2	26254.7	25471.6	26388.2	25925.5
67.5°	11538.9	12280.5	15501.9	25480.5	29927.0	29713.5	29935.9	28707.9	29132.1	28093.9
70°	7979.4	8362.0	10459.2	23884.7	31686.0	34530.7	34524.8	32682.7	31861.1	29081.6
72.5°	5366.0	5564.8	6792.8	18948.7	30392.7	37393.2	37221.2	35720.2	32780.6	27198.0
75°	2263.3	2408.6	3144.3	10649.0	24044.9	34210.4	33744.7	31567.4	29126.1	21416.7
77.5°	717.8	780.1	1239.9	3811.7	13244.5	25714.9	25222.5	19714.0	19521.2	10743.9
80°	341.1	397.5	697.1	1530.6	5211.8	13986.1	13917.9	8943.4	8397.6	2901.0
82.5°	148.3	175.0	385.6	818.7	2331.5	4989.3	5090.2	3043.4	2518.4	1100.5
85°	47.5	62.3	178.0	376.7	984.8	1239.9	1225.1	723.8	1014.5	599.2
87.5°	0.0	0.0	59.3	86.0	100.9	71.2	80.1	62.3	281.8	166.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957596
 CATALOG NUMBER: GALN-SB9D-927-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4760.9	0°	4760.9	4760.9	4760.9	4760.9	4760.9	4760.9	4760.9	4760.9	4760.9	4760.9
4820.2	2.5°	4784.6	4737.2	4654.1	4577.0	4508.8	4440.6	4399.0	4339.7	4333.8	4333.8
4897.4	5°	4817.3	4740.2	4591.8	4434.6	4253.7	4081.6	3909.6	3743.5	3690.1	3651.5
5022.0	7.5°	4912.2	4790.6	4556.2	4256.6	3912.6	3535.8	3271.8	2987.1	2877.3	2818.0
5188.1	10°	5048.6	4882.5	4526.6	4001.5	3443.9	2930.7	2554.0	2245.5	2126.8	2076.4
5369.0	12.5°	5199.9	4995.3	4473.2	3684.1	2930.7	2316.7	1948.9	1806.5	1788.7	1788.7
5585.5	15°	5380.9	5131.7	4381.2	3310.4	2393.8	1833.2	1702.7	1708.6	1726.4	1738.3
5796.2	17.5°	5567.8	5277.1	4235.9	2892.1	1919.2	1649.3	1652.2	1661.1	1676.0	1687.8
6024.6	20°	5769.5	5422.4	4043.1	2447.2	1646.3	1595.9	1604.8	1613.7	1625.5	1631.5
6238.1	22.5°	5986.0	5558.9	3814.7	2011.2	1554.3	1551.4	1554.3	1563.2	1578.1	1578.1
6487.3	25°	6217.4	5710.1	3553.6	1693.8	1506.9	1506.9	1512.8	1518.7	1530.6	1530.6
6727.6	27.5°	6454.7	5849.5	3277.8	1527.6	1465.4	1462.4	1462.4	1471.3	1477.2	1480.2
6964.9	30°	6715.7	6012.7	3001.9	1492.1	1432.7	1417.9	1409.0	1414.9	1420.9	1423.8
7214.0	32.5°	6982.7	6169.9	2755.7	1506.9	1400.1	1373.4	1343.7	1337.8	1337.8	1349.7
7472.1	35°	7279.3	6342.0	2565.9	1557.3	1382.3	1308.1	1260.7	1234.0	1236.9	1254.7
7780.6	37.5°	7635.3	6549.6	2426.4	1601.8	1370.4	1234.0	1156.9	1124.2	1103.5	1124.2
8204.8	40°	8101.0	6855.1	2325.6	1637.4	1355.6	1148.0	1044.1	990.7	952.2	964.0
8863.3	42.5°	8786.2	7335.7	2287.0	1640.4	1323.0	1047.1	928.5	857.3	800.9	803.9
9854.1	45°	9747.3	8095.0	2485.8	1601.8	1251.8	937.4	806.8	711.9	676.3	667.4
11334.2	47.5°	11064.3	9201.5	2945.5	1521.7	1148.0	830.6	688.2	608.1	581.4	566.6
13277.2	50°	12829.3	10622.3	3455.7	1432.7	1044.1	729.7	590.3	539.9	522.1	507.2
15582.0	52.5°	14876.0	12064.0	3874.0	1343.7	940.3	640.7	528.0	498.3	483.5	471.6
17806.7	55°	16753.7	13057.7	3850.3	1248.8	839.5	569.5	483.5	465.7	447.9	436.0
19722.9	57.5°	17922.4	13197.1	3173.9	1145.0	723.8	513.2	442.0	430.1	409.3	394.5
21381.1	60°	18459.3	12402.1	2224.7	1008.5	608.1	459.8	397.5	391.6	364.9	344.1
22950.3	62.5°	18557.2	10924.9	1483.2	839.5	507.2	409.3	353.0	344.1	308.5	272.9
24225.8	65°	18159.7	8812.9	1026.3	655.6	433.1	356.0	302.6	284.8	246.2	210.6
24528.4	67.5°	16902.0	6187.7	714.9	471.6	367.8	281.8	240.3	234.3	204.7	175.0
22985.9	70°	14597.2	3526.9	477.6	353.0	290.7	192.8	189.8	195.8	166.1	142.4
18779.7	72.5°	11191.9	1613.7	296.6	258.1	198.7	130.5	151.3	154.2	127.6	106.8
11716.9	75°	6588.2	691.1	186.9	166.1	100.9	86.0	109.8	112.7	86.0	68.2
4283.3	77.5°	2242.5	261.0	118.7	97.9	50.4	47.5	71.2	71.2	47.5	26.7
860.2	80°	510.2	97.9	59.3	38.6	23.7	20.8	23.7	20.8	11.9	3.0
264.0	82.5°	145.3	38.6	23.7	14.8	8.9	8.9	3.0	0.0	0.0	0.0
92.0	85°	41.5	17.8	5.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0
32.6	87.5°	17.8	3.0	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>
4760.9
4348.6
3669.3
2826.9
2076.4
1788.7
1738.3
1687.8
1634.4
1584.0
1533.6
1483.2
1429.8
1358.6
1263.6
1118.3
958.1
792.0
655.6
557.7
504.3
468.7
430.1
391.6
338.2
255.1
198.7
166.1
130.5
94.9
59.3
20.8
0.0
0.0
0.0
0.0
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