

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: P943896

Luminaire Tested: **GALN-SB8C-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42676 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

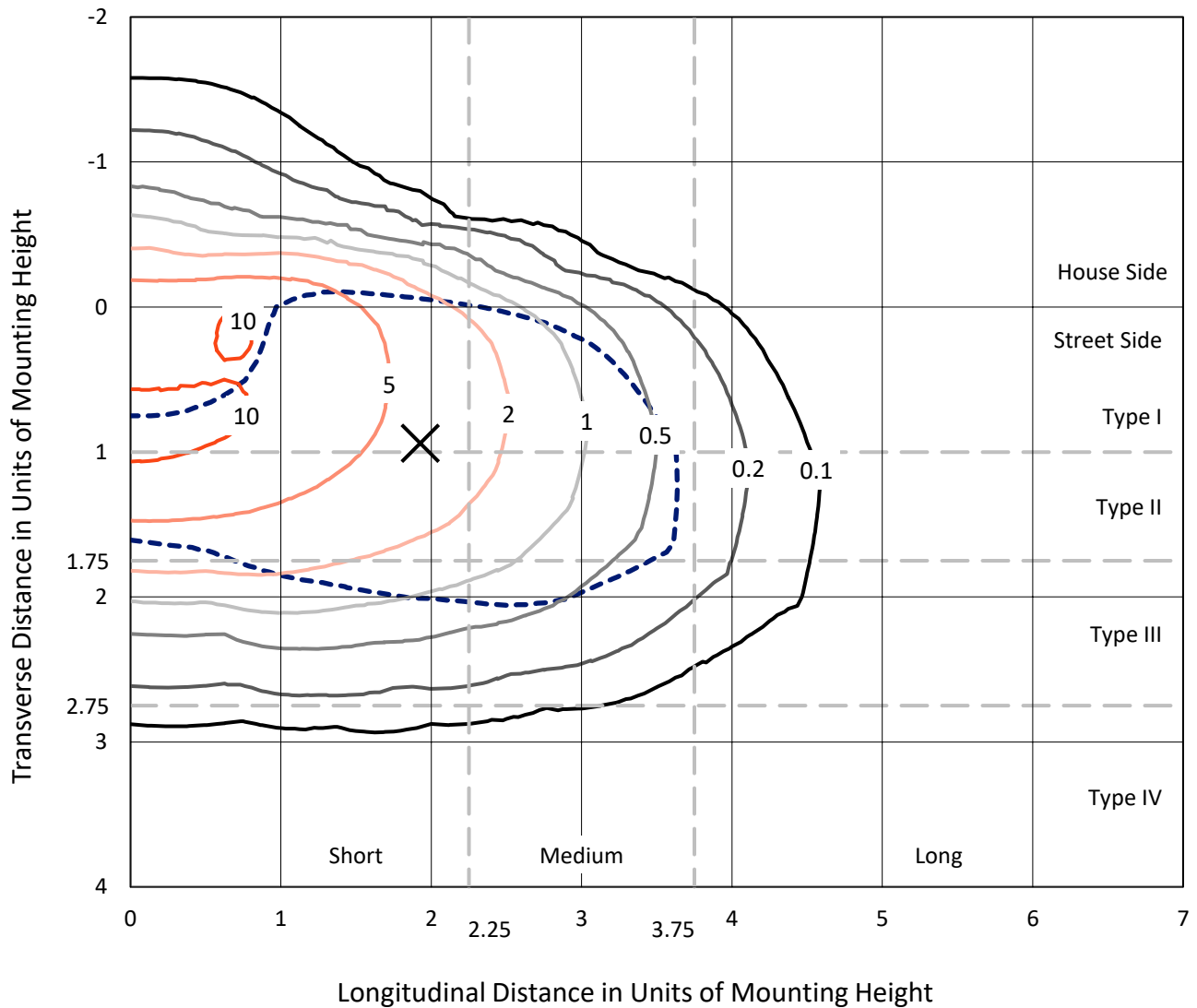
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

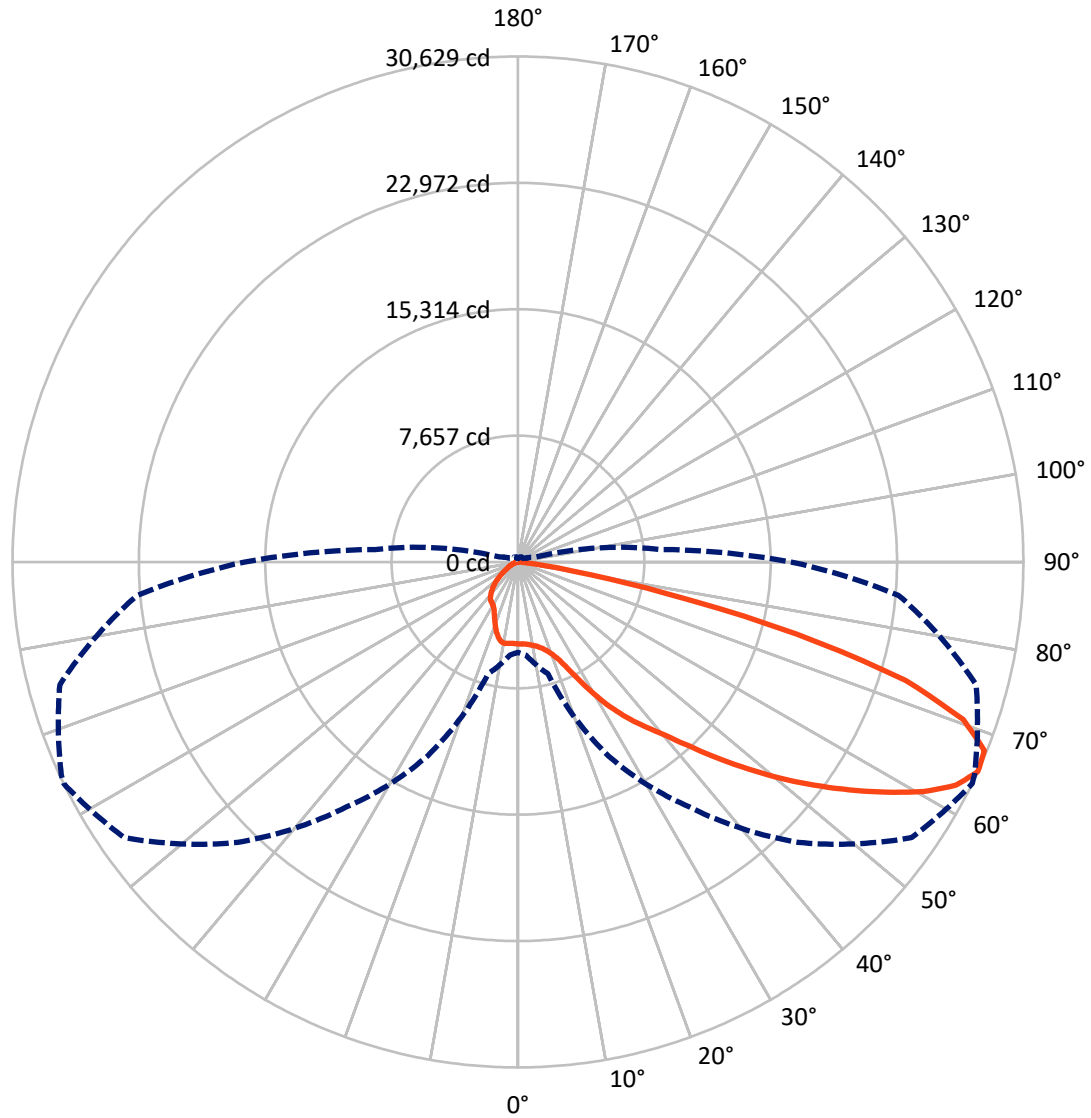
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5707.1	0.0	5707.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	36968.9	0.0	36968.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	42676.0	0.0	42676.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.9	1.1
10°-20°	1242.1	2.9
20°-30°	2353.6	5.5
30°-40°	4762.7	11.2
40°-50°	8113.2	19.0
50°-60°	11033.4	25.9
60°-70°	10360.9	24.3
70°-80°	4151.0	9.7
80°-90°	201.1	0.5
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°	42676.0	100.0
0°-180°	42676.0	100.0

Coefficient of Utilization



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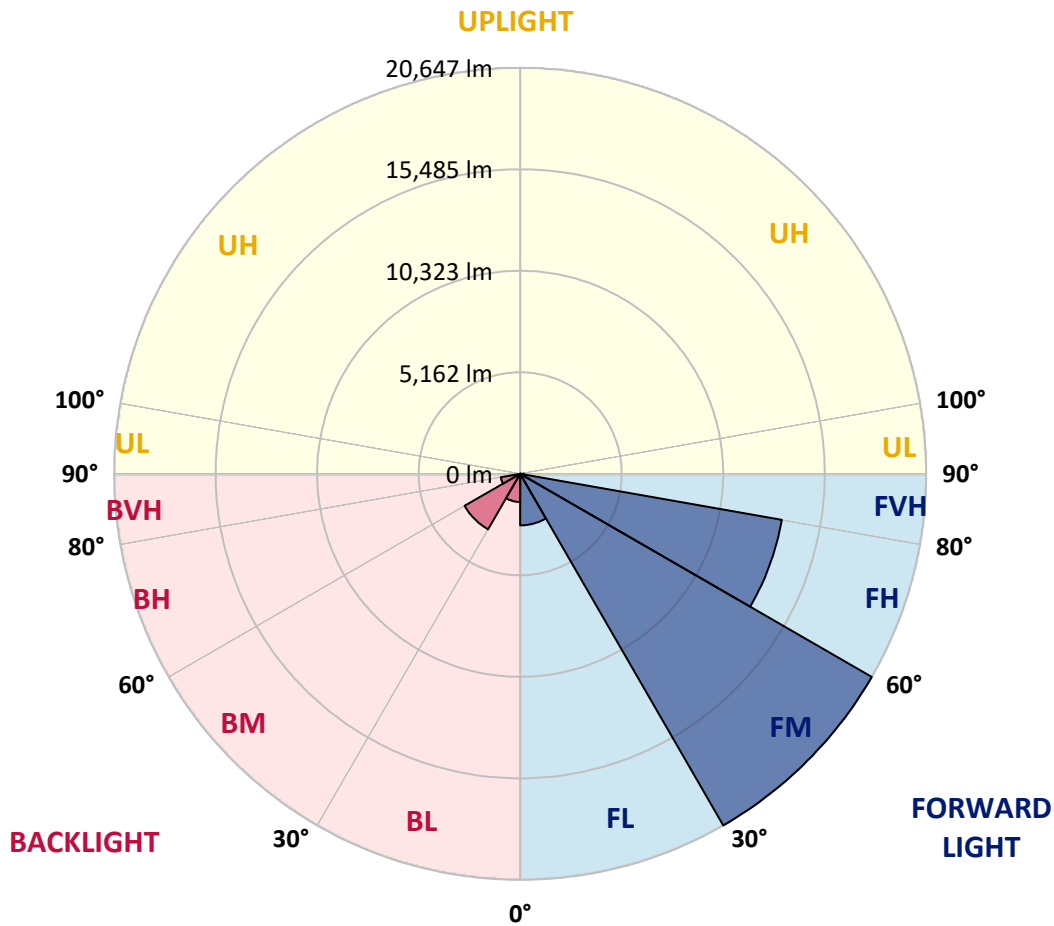
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2620.8	6.1			
FM (30°-60°)	20646.6	48.4			
FH (60°-80°)	13510.2	31.7			G5
FVH (80°-90°)	191.3	0.4			G2/225
BL (0°-30°)	1432.9	3.4	B3/2500		
BM (30°-60°)	3262.7	7.6	B3/5000		
BH (60°-80°)	1001.7	2.3	B3/2500		G3/2500
BVH (80°-90°)	9.8	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4963.7	4963.7	4963.7	4963.7	4963.7	4963.7	4963.7	4963.7	4963.7	4963.7
2.5°	4946.5	4980.8	4972.2	4963.7	4960.8	4966.5	4969.4	4966.5	4966.5	4966.5
5°	4852.1	4880.7	4880.7	4900.7	4929.3	4963.7	4989.4	4995.1	5000.9	5009.4
7.5°	4671.9	4694.7	4711.9	4777.7	4849.2	4940.8	5018.0	5058.1	5063.8	5095.3
10°	4548.8	4577.4	4606.0	4674.7	4777.7	4915.0	5046.6	5143.9	5158.2	5232.6
12.5°	4543.1	4571.7	4608.9	4683.3	4803.5	4949.4	5109.6	5249.8	5275.5	5384.2
15°	4603.2	4637.5	4671.9	4763.4	4892.1	5069.5	5241.2	5415.7	5441.4	5595.9
17.5°	4726.2	4772.0	4797.7	4889.3	5026.6	5224.0	5450.0	5650.3	5673.2	5853.4
20°	4969.4	5023.7	5032.3	5106.7	5241.2	5452.9	5721.8	5970.7	5999.3	6205.3
22.5°	5472.9	5550.1	5481.5	5518.7	5638.8	5850.5	6142.4	6457.1	6497.1	6731.7
25°	6359.8	6468.5	6291.1	6228.2	6279.7	6500.0	6866.2	7263.8	7309.6	7498.4
27.5°	8102.1	7961.9	7693.0	7429.8	7275.3	7401.1	7813.1	8305.2	8362.4	8545.5
30°	10016.0	9893.0	9529.7	8946.0	8579.8	8559.8	8940.3	9489.6	9555.4	9729.9
32.5°	11932.8	11815.5	11420.7	10702.6	10067.5	9752.8	10016.0	10625.4	10659.7	10771.3
35°	13818.1	13698.0	13303.2	12567.9	11786.9	11071.7	11020.2	11706.8	11718.2	11835.5
37.5°	15714.9	15614.8	15194.2	14473.3	13703.7	12716.7	12238.9	12731.0	12745.3	12859.7
40°	17068.1	17111.0	16822.1	16264.2	15603.3	14524.8	13606.4	13821.0	13735.2	13926.9
42.5°	18229.7	18315.5	18063.7	17783.4	17400.0	16450.2	15300.1	15262.9	15125.6	15228.6
45°	19233.8	19305.4	19079.3	19013.5	19005.0	18338.4	17151.1	16927.9	16736.3	16716.2
47.5°	19602.9	19740.2	19837.5	20057.8	20486.9	20206.5	19065.0	18718.9	18504.3	18347.0
50°	19743.1	19889.0	20220.8	20861.7	21877.3	21997.5	20970.4	20581.3	20318.1	20032.0
52.5°	19554.3	19814.6	20260.9	21339.5	22812.8	23433.6	22798.5	22458.1	22157.7	21691.3
55°	18441.4	18701.7	19614.3	21333.7	23279.1	24440.7	24526.5	24374.9	24037.3	23302.0
57.5°	16095.4	16481.6	17926.4	20607.1	23270.6	25307.5	26220.2	26328.9	25951.2	24898.4
60°	12845.4	13369.0	15131.3	18996.4	22552.5	25776.7	27705.0	28248.5	27848.0	26471.9
62.5°	8963.2	9569.7	11237.6	16473.1	20910.3	25439.1	28789.2	29793.4	29490.2	27879.5
65°	5467.2	5661.7	7006.3	12962.7	18118.1	24025.8	29124.0	30628.8	30528.7	28740.6
67.5°	3641.9	3805.0	4191.2	8888.8	14064.2	21202.1	28322.9	30482.9	30511.5	28600.4
70°	2194.3	2334.5	2586.3	5169.6	9114.8	16782.0	25842.5	28623.3	28789.2	26726.5
72.5°	904.0	998.5	1227.3	2343.1	4720.5	10651.1	20578.5	24575.1	24961.4	22472.4
75°	512.1	560.7	720.9	1175.8	2048.4	4963.7	12464.9	17445.8	18015.1	15488.9
77.5°	340.4	363.3	466.3	761.0	1152.9	1693.7	5327.0	9089.1	10176.2	8459.7
80°	228.9	248.9	320.4	509.2	749.6	726.7	1696.5	3367.3	4142.6	2906.7
82.5°	154.5	157.3	228.9	334.7	474.9	351.9	500.7	1047.1	1316.0	841.1
85°	88.7	85.8	168.8	194.5	211.7	145.9	151.6	314.7	412.0	354.8
87.5°	11.4	17.2	65.8	51.5	28.6	31.5	31.5	54.4	80.1	85.8
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°
4963.7	0°	4963.7	4963.7	4963.7	4963.7	4963.7	4963.7	4963.7	4963.7	4963.7	4963.7
4969.4	2.5°	4969.4	4966.5	4957.9	4949.4	4929.3	4917.9	4923.6	4917.9	4915.0	4917.9
5006.6	5°	5006.6	4998.0	4975.1	4946.5	4906.4	4857.8	4826.3	4780.6	4737.7	4711.9
5106.7	7.5°	5106.7	5098.1	5066.7	4986.5	4857.8	4654.7	4468.7	4305.7	4182.6	4111.1
5266.9	10°	5266.9	5252.6	5204.0	5026.6	4689.0	4245.6	3876.5	3570.4	3370.1	3275.7
5455.7	12.5°	5455.7	5438.6	5352.7	4989.4	4368.6	3676.3	3167.0	2826.6	2640.6	2557.6
5673.2	15°	5678.9	5656.0	5487.2	4812.0	3902.3	3046.9	2580.5	2325.9	2205.8	2131.4
5950.7	17.5°	5956.4	5916.3	5587.3	4546.0	3395.9	2566.2	2220.1	2028.4	1922.5	1851.0
6314.0	20°	6316.9	6251.1	5667.4	4228.4	2929.6	2263.0	1976.9	1816.7	1736.6	1673.6
6829.0	22.5°	6820.4	6726.0	5764.7	3885.1	2600.6	2054.1	1796.6	1679.3	1613.5	1542.0
7547.1	25°	7444.1	7332.5	5884.9	3567.5	2374.5	1873.9	1665.0	1567.8	1490.5	1407.6
8488.3	27.5°	8316.6	8116.4	6027.9	3307.2	2180.0	1719.4	1544.9	1436.2	1347.5	1278.8
9555.4	30°	9289.3	8960.3	6153.8	3149.9	2002.6	1576.4	1387.5	1278.8	1195.9	1147.2
10513.8	32.5°	10210.6	9764.3	6236.8	3081.2	1842.4	1413.3	1215.9	1098.6	1035.6	1021.3
11452.2	35°	11080.3	10490.9	6228.2	3015.4	1699.4	1250.2	1047.1	926.9	878.3	886.9
12462.1	37.5°	12081.6	11266.2	6168.1	2912.4	1582.1	1101.4	901.2	795.3	752.4	755.3
13689.4	40°	13246.0	12161.7	6130.9	2717.9	1453.3	964.1	781.0	695.2	663.7	652.3
14982.5	42.5°	14487.6	13028.5	6136.6	2497.6	1293.1	841.1	698.1	626.5	597.9	589.3
16421.6	45°	15735.0	13855.3	6145.2	2268.7	1124.3	746.7	638.0	577.9	560.7	549.3
17880.6	47.5°	16907.9	14559.1	5985.0	2022.7	958.4	675.2	589.3	549.3	535.0	520.7
19345.4	50°	18000.8	15028.3	5598.8	1736.6	826.8	618.0	552.2	523.5	509.2	494.9
20672.9	52.5°	18850.5	15102.7	4960.8	1441.9	735.3	575.0	529.3	503.5	486.4	472.0
21745.7	55°	19228.1	14636.4	4053.9	1167.2	663.7	537.8	506.4	480.6	460.6	446.3
22589.7	57.5°	19130.8	13655.1	3161.3	938.4	595.1	500.7	477.8	460.6	437.7	414.8
23273.4	60°	18653.1	12341.9	2383.1	781.0	532.1	460.6	446.3	432.0	400.5	366.2
23536.6	62.5°	17826.3	10691.2	1699.4	646.6	463.5	414.8	409.1	397.7	351.9	289.0
23147.5	65°	16561.8	8685.7	1144.4	537.8	397.7	363.3	366.2	346.2	286.1	214.6
21722.8	67.5°	14713.6	6351.2	732.4	440.6	331.9	303.3	306.1	294.7	243.2	183.1
19022.1	70°	12359.1	4205.5	477.8	334.7	266.1	234.6	251.8	254.6	206.0	148.8
14599.2	72.5°	9060.5	2483.3	334.7	248.9	194.5	163.1	206.0	211.7	165.9	111.6
8783.0	75°	5163.9	1178.7	251.8	180.2	120.2	114.4	160.2	160.2	114.4	74.4
3802.1	77.5°	2168.6	492.1	177.4	117.3	68.7	65.8	108.7	100.1	57.2	34.3
926.9	80°	626.5	220.3	94.4	57.2	28.6	25.7	42.9	31.5	14.3	5.7
351.9	82.5°	246.0	97.3	37.2	22.9	11.4	11.4	5.7	0.0	0.0	0.0
200.3	85°	145.9	40.1	17.2	8.6	2.9	0.0	0.0	0.0	0.0	0.0
42.9	87.5°	37.2	8.6	5.7	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°
4963.7
4929.3
4717.6
4114.0
3267.1
2549.1
2134.2
1845.3
1662.2
1530.6
1399.0
1264.5
1138.6
1029.9
886.9
766.7
649.4
586.5
549.3
520.7
494.9
469.2
443.4
412.0
360.5
283.2
208.8
174.5
143.0
105.9
68.7
34.3
5.7
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