

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: P956101

Luminaire Tested: **GALN-SB8D-835-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-835-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58329 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

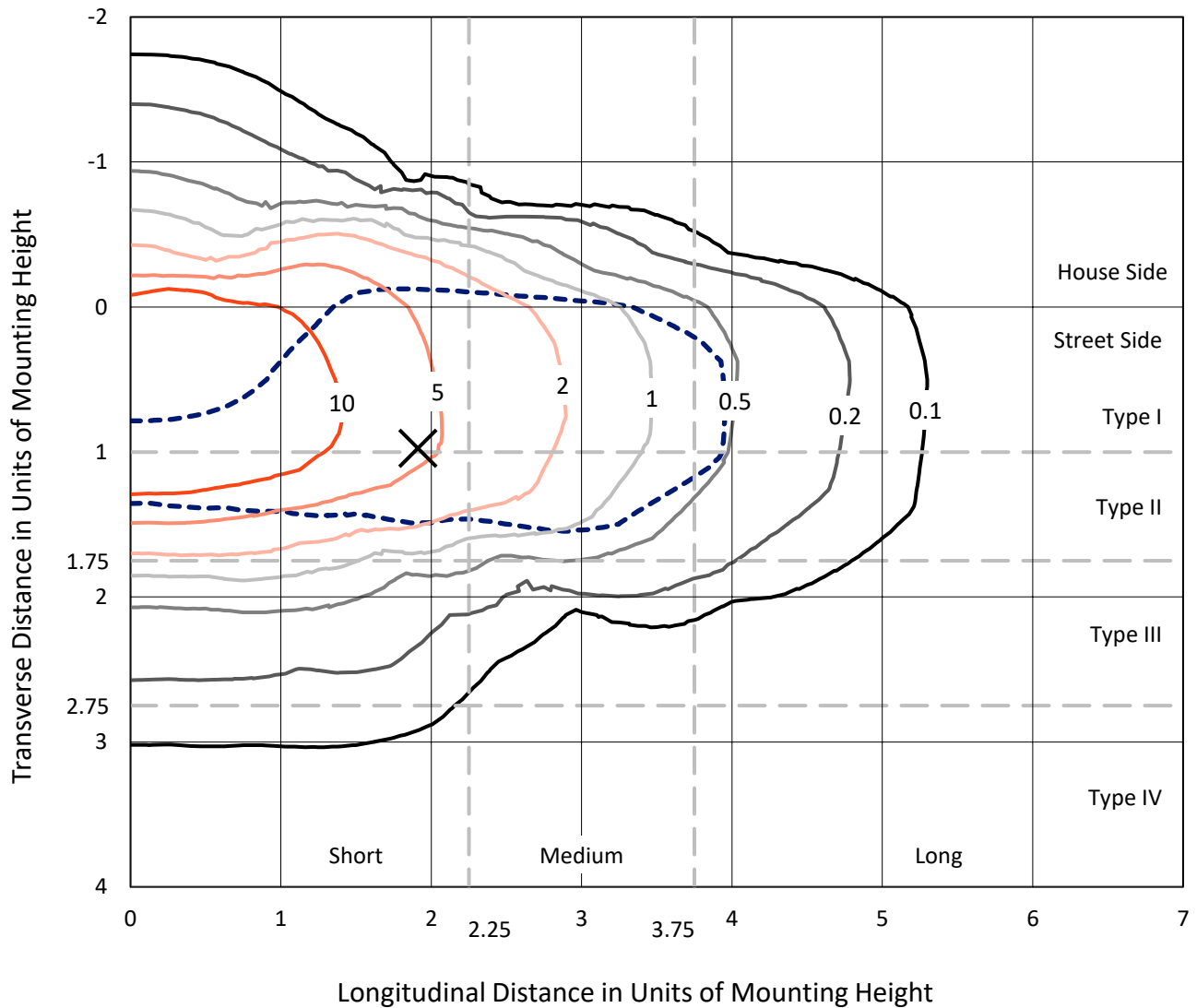
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

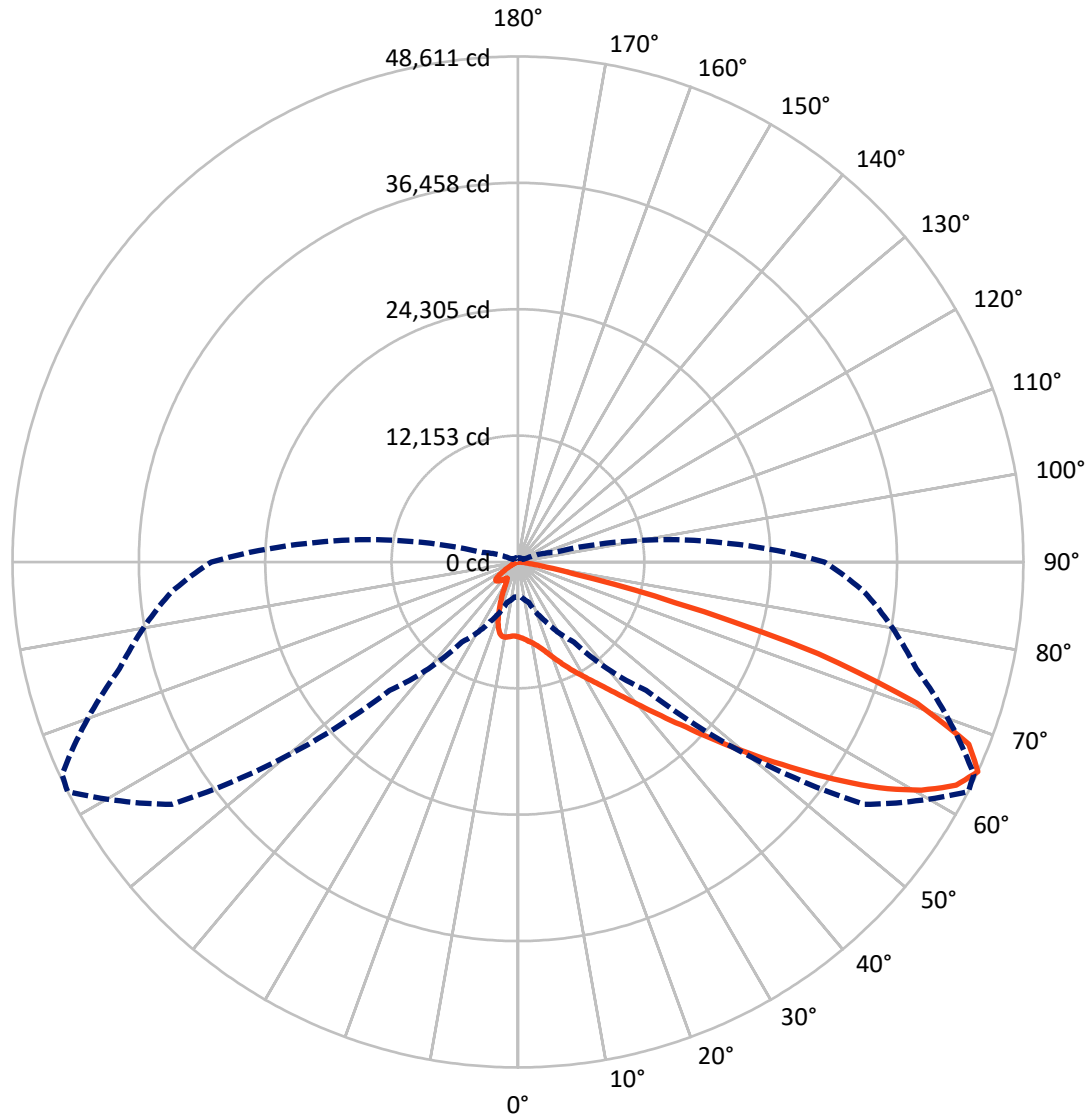
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8573.9	0.0	8573.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	49755.1	0.0	49755.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	58329.0	0.0	58329.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.3	1.2
10°-20°	1882.0	3.2
20°-30°	3277.0	5.6
30°-40°	5906.4	10.1
40°-50°	11714.2	20.1
50°-60°	15956.8	27.4
60°-70°	12736.6	21.8
70°-80°	5763.6	9.9
80°-90°	414.3	0.7
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°	58329.0	100.0
0°-180°	58329.0	100.0



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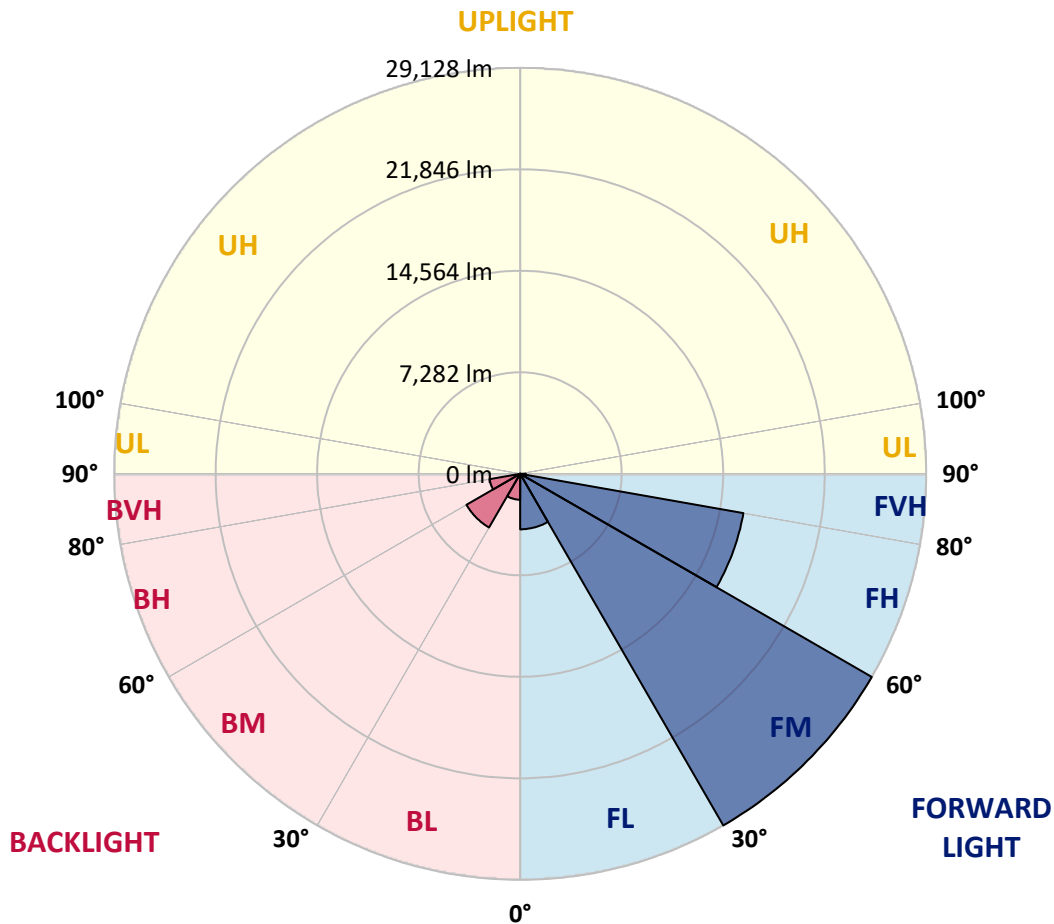
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3981.7	6.8			
FM (30°-60°)	29128.0	49.9			
FH (60°-80°)	16261.8	27.9			G5
FVH (80°-90°)	383.5	0.7			G3/500
BL (0°-30°)	1855.5	3.2	B3/2500		
BM (30°-60°)	4449.3	7.6	B3/5000		
BH (60°-80°)	2238.3	3.8	B3/2500		G3/2500
BVH (80°-90°)	30.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	7198.9	7198.9	7198.9	7198.9	7198.9	7198.9	7198.9	7198.9	7198.9	7198.9
2.5°	7367.4	7347.4	7375.5	7363.4	7355.4	7339.3	7331.3	7323.3	7307.2	7295.2
5°	7387.5	7375.5	7403.6	7427.6	7451.7	7475.8	7487.8	7503.9	7487.8	7455.7
7.5°	7219.0	7210.9	7271.1	7343.4	7451.7	7544.0	7644.3	7700.5	7704.5	7692.5
10°	7206.9	7186.9	7247.1	7335.3	7475.8	7640.3	7816.9	7937.2	7953.3	8005.5
12.5°	7395.5	7375.5	7459.7	7556.0	7700.5	7873.0	8089.7	8258.3	8282.3	8354.6
15°	7712.5	7684.4	7780.8	7905.1	8089.7	8286.4	8515.1	8667.6	8687.6	8775.9
17.5°	8081.7	8053.6	8166.0	8298.4	8499.0	8767.9	9032.7	9201.3	9225.3	9281.5
20°	8555.2	8519.1	8607.4	8727.8	8940.4	9261.5	9578.5	9819.2	9815.2	9815.2
22.5°	9105.0	9048.8	9125.0	9221.3	9422.0	9811.2	10232.6	10517.5	10517.5	10405.1
25°	9694.8	9638.7	9722.9	9811.2	9987.8	10429.2	10922.7	11275.9	11291.9	11099.3
27.5°	10433.2	10361.0	10425.2	10529.5	10633.8	11083.3	11669.1	12078.4	12086.4	11789.5
30°	11853.7	11649.1	11448.4	11336.1	11384.2	11829.6	12455.6	12909.1	12949.2	12539.9
32.5°	14454.0	14413.9	13707.6	12784.7	12303.1	12632.2	13334.4	13880.2	13904.2	13378.6
35°	18494.8	18446.7	17311.1	15553.5	13984.5	13707.6	14401.8	15047.9	15031.8	14437.9
37.5°	23318.2	23274.0	21777.3	19425.8	16885.7	15332.8	15778.2	16456.3	16556.7	15778.2
40°	27439.3	27274.8	26327.8	24060.5	20738.0	18029.4	17736.4	18185.9	18290.2	17367.2
42.5°	30561.2	30420.8	29939.2	28522.7	25400.8	22018.0	20043.8	20216.3	20332.7	19225.2
45°	32178.4	32146.3	32338.9	32206.5	30151.9	26913.6	23342.3	22624.0	22668.1	21283.7
47.5°	32407.1	32391.0	33269.8	34513.8	34236.9	32435.2	27575.7	25625.5	25469.0	23607.1
50°	31058.8	31026.7	32712.1	35043.5	36965.6	37073.9	32383.0	29008.3	28663.2	26010.7
52.5°	26753.1	26745.1	29513.9	33394.2	37924.6	41134.9	37134.1	32724.1	32146.3	28554.8
55°	20585.5	20734.0	23908.1	28494.6	36175.1	43089.1	41399.7	36849.2	35962.4	31115.0
57.5°	14582.4	14799.1	17937.1	22022.1	30749.8	41933.4	44284.9	40982.4	40027.3	33667.1
60°	7832.9	8025.5	11167.5	16043.0	22876.8	37623.7	45805.7	44569.8	43666.9	36090.8
62.5°	4666.8	4731.1	6031.2	10356.9	15473.2	28743.4	45159.7	47302.5	46560.1	38125.3
65°	3350.7	3362.7	4016.8	6324.1	9393.9	17463.6	40629.2	48610.6	48381.9	39658.2
67.5°	2821.0	2812.9	3085.8	4201.4	6400.4	8747.8	31139.1	46760.8	47731.8	40629.2
70°	2419.7	2431.7	2752.8	3077.8	4811.3	4951.8	15481.2	40713.5	42784.1	40886.1
72.5°	1801.7	1841.9	2138.8	2804.9	3631.6	3406.8	5345.0	30188.0	33931.9	38522.5
75°	1272.0	1292.1	1504.8	2359.5	2708.6	2479.9	2728.7	15605.6	20404.9	29534.0
77.5°	979.1	1015.2	1139.6	1649.2	2668.5	1741.5	1669.3	5401.2	8298.4	17840.8
80°	529.7	593.9	822.6	1191.8	1874.0	1231.9	826.6	2150.8	2812.9	8342.5
82.5°	272.9	305.0	573.8	858.7	1067.4	1075.4	409.3	894.8	1159.7	2576.2
85°	108.3	132.4	385.2	473.5	549.7	529.7	184.6	361.1	417.3	714.3
87.5°	24.1	40.1	140.4	108.3	104.3	112.4	44.1	84.3	80.3	84.3
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°
7198.9	0°	7198.9	7198.9	7198.9	7198.9	7198.9	7198.9	7198.9	7198.9	7198.9	7198.9
7247.1	2.5°	7243.0	7227.0	7182.8	7134.7	7078.5	7046.4	7026.4	7022.3	6994.2	6974.2
7407.6	5°	7363.4	7347.4	7263.1	7162.8	7054.4	6970.2	6889.9	6817.7	6713.4	6693.3
7640.3	7.5°	7604.2	7560.0	7423.6	7287.2	7082.5	6837.8	6540.8	6199.7	5894.8	5802.5
7949.3	10°	7901.1	7840.9	7668.4	7427.6	6974.2	6308.1	5589.8	4923.7	4394.0	4245.5
8314.4	12.5°	8238.2	8186.0	7957.3	7511.9	6520.7	5312.9	4213.4	3386.8	2873.1	2744.7
8703.7	15°	8639.5	8563.2	8246.2	7383.5	5710.2	4036.8	2893.2	2403.6	2219.1	2195.0
9149.1	17.5°	9064.8	8940.4	8503.0	6922.0	4618.7	2869.1	2235.1	2094.7	2014.4	1990.3
9598.5	20°	9454.1	9293.6	8655.5	6223.8	3451.0	2235.1	2002.4	1910.1	1837.8	1809.8
10048.0	22.5°	9843.3	9614.6	8655.5	5272.8	2588.2	1982.3	1837.8	1753.6	1669.3	1633.2
10529.5	25°	10248.6	9943.6	8503.0	4213.4	2082.6	1817.8	1681.3	1589.1	1516.8	1472.7
10987.0	27.5°	10641.9	10220.5	8153.9	3210.2	1853.9	1673.3	1536.9	1448.6	1380.4	1348.3
11484.5	30°	11015.0	10493.4	7664.4	2435.7	1705.4	1532.9	1404.5	1328.2	1260.0	1227.9
12130.6	32.5°	11520.6	10838.5	7142.7	1998.4	1577.0	1400.5	1284.1	1211.9	1151.7	1127.6
12969.3	35°	12222.9	11348.1	6693.3	1962.2	1468.7	1292.1	1175.7	1107.5	1047.3	1027.3
14052.7	37.5°	13218.0	12170.7	6456.5	2203.0	1380.4	1195.8	1087.5	1015.2	959.1	943.0
15429.1	40°	14446.0	13286.3	6584.9	2443.8	1320.2	1111.5	1007.2	935.0	886.8	866.8
17010.1	42.5°	15902.6	14662.6	7295.2	2628.4	1280.1	1039.3	931.0	850.7	818.6	810.6
18803.8	45°	17575.9	16175.5	8382.7	2825.0	1215.9	971.1	854.7	794.5	770.5	766.4
20754.0	47.5°	19478.0	17836.7	9642.7	3069.8	1151.7	906.9	794.5	754.4	734.3	726.3
22788.5	50°	21364.0	19510.1	10938.8	3206.2	1099.5	846.7	746.4	714.3	698.2	694.2
24939.3	52.5°	23338.2	21231.5	11986.1	3077.8	1055.4	798.5	706.2	682.2	666.1	662.1
26921.6	55°	25220.2	22624.0	12166.7	2612.3	967.1	750.4	662.1	650.1	630.0	630.0
28932.0	57.5°	26841.4	23322.2	10890.6	1918.1	878.8	678.2	618.0	605.9	589.9	585.9
30745.8	60°	28330.1	23121.6	8406.7	1292.1	782.5	605.9	561.8	553.8	537.7	517.6
32322.8	62.5°	29168.8	22238.7	5750.3	842.7	686.2	529.7	497.6	493.6	457.5	417.3
33490.5	65°	29485.8	20425.0	3587.4	614.0	573.8	453.4	429.4	421.3	369.2	325.0
34152.6	67.5°	29208.9	17439.5	1809.8	485.5	453.4	377.2	353.1	353.1	317.0	276.9
34112.5	70°	28101.4	13073.6	762.4	389.2	349.1	288.9	288.9	305.0	268.9	224.7
32342.9	72.5°	25697.7	8796.0	405.3	296.9	260.8	204.7	236.8	248.8	212.7	168.5
26472.2	75°	20429.0	5365.1	280.9	220.7	164.5	144.5	180.6	188.6	144.5	112.4
18149.7	77.5°	13972.4	3081.8	188.6	140.4	104.3	84.3	124.4	116.4	76.2	52.2
6998.3	80°	6135.5	1284.1	108.3	64.2	40.1	32.1	44.1	32.1	24.1	16.1
959.1	82.5°	718.3	301.0	40.1	24.1	16.1	8.0	4.0	0.0	0.0	0.0
292.9	85°	148.5	36.1	20.1	8.0	4.0	0.0	0.0	0.0	0.0	0.0
52.2	87.5°	28.1	8.0	4.0	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>
7198.9
6994.2
6685.3
5758.3
4189.3
2708.6
2170.9
1978.3
1793.7
1613.1
1456.6
1348.3
1231.9
1127.6
1027.3
939.0
862.7
810.6
762.4
726.3
694.2
662.1
626.0
581.9
513.6
409.3
321.0
272.9
220.7
168.5
108.3
56.2
16.1
0.0
0.0
0.0
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