

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: P944266

Luminaire Tested: **GALN-SB9A-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944266
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-SB9A-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 350mA 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: 30651 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

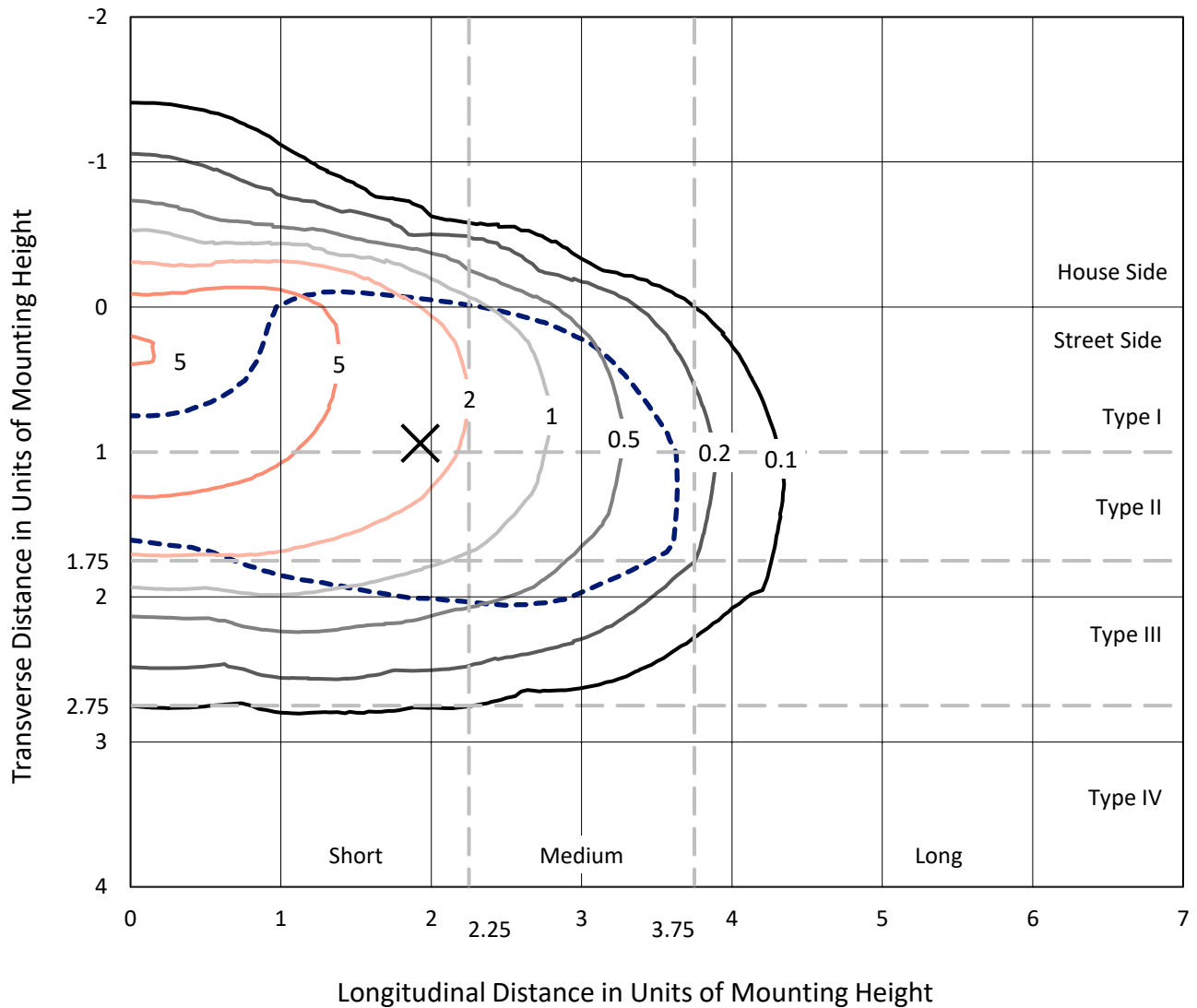
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944266
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Iso-Footcandle Lines of Horizontal Illumination

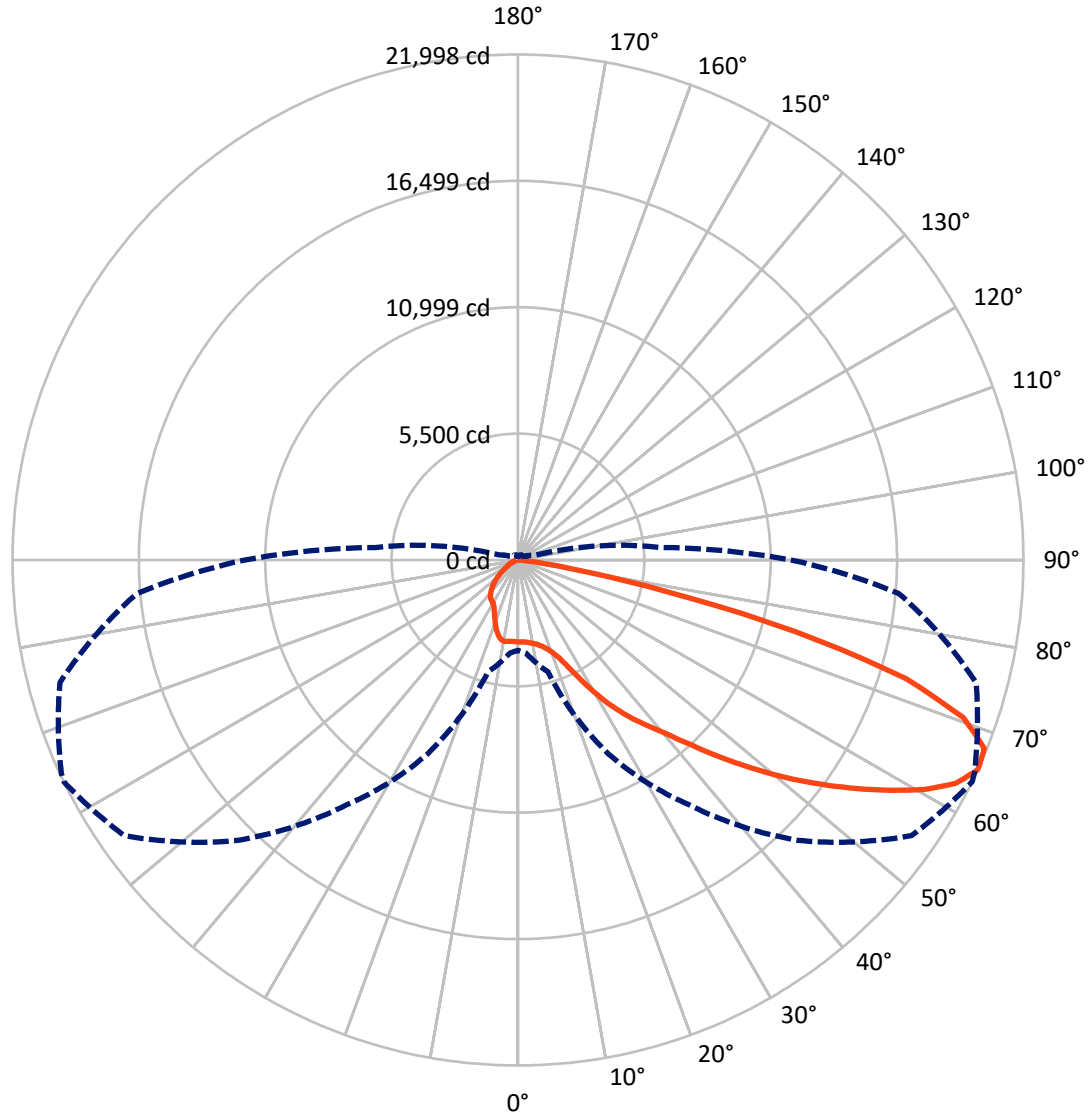
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

REPORT NUMBER: P944266
CATALOG NUMBER: GALN-SB9A-850-U-T3-HSS

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	4099.0	0.0	4099.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	26552.0	0.0	26552.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	30651.0	0.0	30651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.9	1.1
10°-20°	892.1	2.9
20°-30°	1690.4	5.5
30°-40°	3420.7	11.2
40°-50°	5827.1	19.0
50°-60°	7924.5	25.9
60°-70°	7441.5	24.3
70°-80°	2981.4	9.7
80°-90°	144.4	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°	30651.0	100.0
0°-180°	30651.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944266

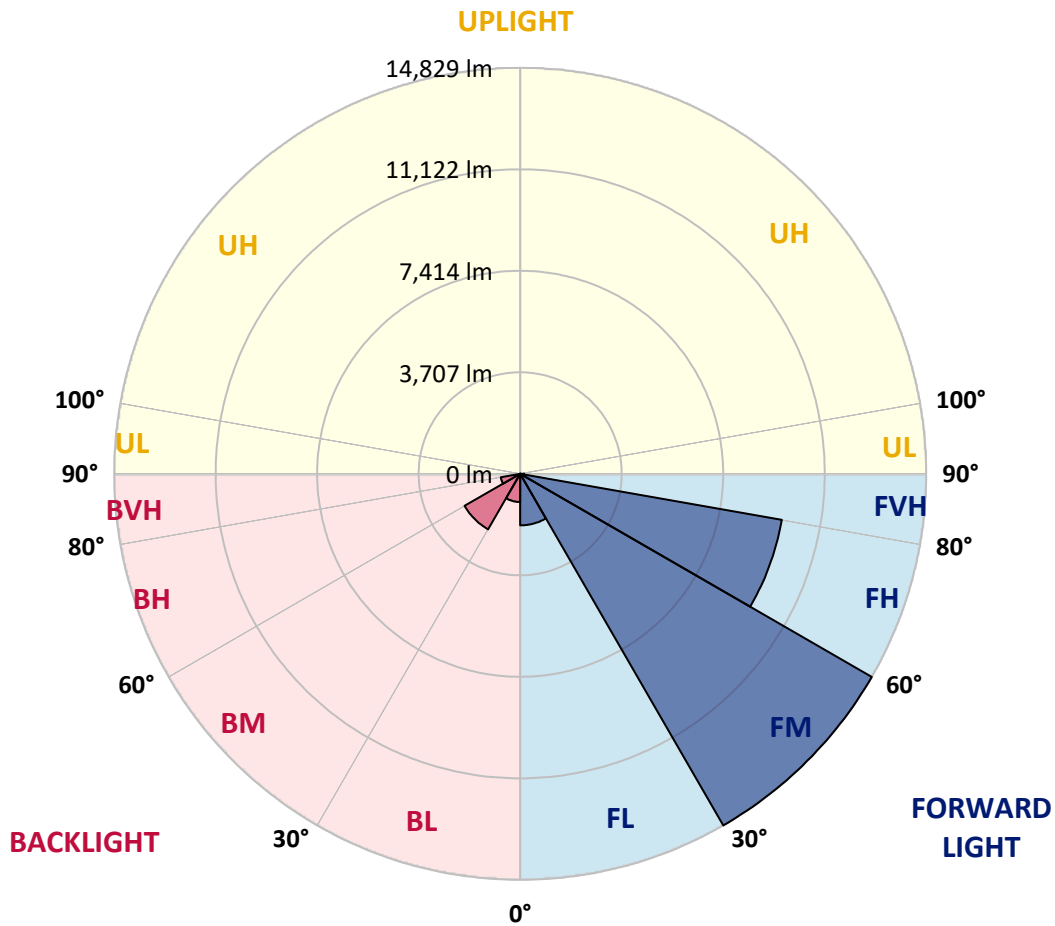
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1882.3	6.1			
FM (30°-60°)	14828.9	48.4			
FH (60°-80°)	9703.4	31.7			G4/12000
FVH (80°-90°)	137.4	0.4			G2/225
BL (0°-30°)	1029.1	3.4	B3/2500		
BM (30°-60°)	2343.3	7.6	B2/2500		
BH (60°-80°)	719.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.1	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-G4

Type III Short



REPORT NUMBER: P944266

CATALOG NUMBER: GALN-SB9A-850-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0
2.5°	3552.7	3577.4	3571.2	3565.0	3563.0	3567.1	3569.1	3567.1	3567.1	3567.1
5°	3484.9	3505.4	3505.4	3519.8	3540.4	3565.0	3583.5	3587.6	3591.7	3597.9
7.5°	3355.4	3371.9	3384.2	3431.5	3482.8	3548.6	3604.1	3632.8	3636.9	3659.5
10°	3267.1	3287.6	3308.2	3357.5	3431.5	3530.1	3624.6	3694.5	3704.8	3758.2
12.5°	3263.0	3283.5	3310.2	3363.7	3450.0	3554.8	3669.8	3770.5	3789.0	3867.1
15°	3306.1	3330.8	3355.4	3421.2	3513.7	3641.1	3764.3	3889.7	3908.2	4019.1
17.5°	3394.5	3427.4	3445.9	3511.6	3610.2	3752.0	3914.3	4058.2	4074.6	4204.1
20°	3569.1	3608.2	3614.3	3667.8	3764.3	3916.4	4109.5	4288.3	4308.9	4456.8
22.5°	3930.8	3986.3	3936.9	3963.7	4050.0	4202.0	4411.6	4637.6	4666.4	4834.9
25°	4567.8	4645.8	4518.4	4473.2	4510.2	4668.4	4931.5	5217.1	5249.9	5385.6
27.5°	5819.1	5718.4	5525.3	5336.2	5225.3	5315.7	5611.6	5965.0	6006.1	6137.6
30°	7193.8	7105.4	6844.4	6425.3	6162.3	6147.9	6421.2	6815.7	6862.9	6988.3
32.5°	8570.5	8486.2	8202.7	7686.9	7230.7	7004.7	7193.8	7631.4	7656.1	7736.2
35°	9924.5	9838.2	9554.7	9026.6	8465.7	7952.0	7915.0	8408.1	8416.3	8500.6
37.5°	11286.9	11214.9	10912.9	10395.1	9842.4	9133.5	8790.3	9143.7	9154.0	9236.2
40°	12258.8	12289.6	12082.1	11681.4	11206.7	10432.1	9772.5	9926.6	9865.0	10002.6
42.5°	13093.0	13154.7	12973.8	12772.5	12497.1	11814.9	10988.9	10962.2	10863.6	10937.6
45°	13814.2	13865.6	13703.3	13656.0	13649.9	13171.1	12318.4	12158.1	12020.4	12006.0
47.5°	14079.3	14177.9	14247.8	14406.0	14714.2	14512.9	13693.0	13444.4	13290.3	13177.3
50°	14180.0	14284.8	14523.1	14983.4	15712.8	15799.1	15061.5	14782.0	14593.0	14387.5
52.5°	14044.4	14231.4	14551.9	15326.5	16384.8	16830.6	16374.5	16130.0	15914.2	15579.3
55°	13245.1	13432.0	14087.5	15322.4	16719.7	17553.9	17615.6	17506.7	17264.2	16736.1
57.5°	11560.1	11837.5	12875.2	14800.5	16713.5	18176.5	18832.0	18910.1	18638.8	17882.7
60°	9225.9	9601.9	10867.7	13643.7	16197.8	18513.5	19898.4	20288.8	20001.2	19012.8
62.5°	6437.6	6873.2	8071.1	11831.4	15018.3	18271.0	20677.2	21398.4	21180.6	20023.8
65°	3926.7	4066.4	5032.1	9310.2	13012.9	17256.0	20917.6	21998.4	21926.5	20642.2
67.5°	2615.7	2732.8	3010.2	6384.2	10101.3	15227.9	20342.2	21893.6	21914.1	20541.6
70°	1576.0	1676.7	1857.5	3713.0	6546.5	12053.3	18560.8	20558.0	20677.2	19195.7
72.5°	649.3	717.1	881.5	1682.9	3390.4	7649.9	14780.0	17650.5	17927.9	16140.2
75°	367.8	402.7	517.8	844.5	1471.2	3565.0	8952.6	12530.0	12938.9	11124.5
77.5°	244.5	261.0	334.9	546.6	828.1	1216.4	3826.0	6528.0	7308.8	6076.0
80°	164.4	178.8	230.1	365.7	538.4	521.9	1218.5	2418.5	2975.3	2087.6
82.5°	111.0	113.0	164.4	240.4	341.1	252.7	359.6	752.0	945.2	604.1
85°	63.7	61.6	121.2	139.7	152.1	104.8	108.9	226.0	295.9	254.8
87.5°	8.2	12.3	47.3	37.0	20.5	22.6	22.6	39.0	57.5	61.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944266
 CATALOG NUMBER: GALN-SB9A-850-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3565.0	0°	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0
3569.1	2.5°	3569.1	3567.1	3560.9	3554.8	3540.4	3532.2	3536.3	3532.2	3530.1	3532.2
3595.9	5°	3595.9	3589.7	3573.2	3552.7	3523.9	3489.0	3466.4	3433.5	3402.7	3384.2
3667.8	7.5°	3667.8	3661.6	3639.0	3581.5	3489.0	3343.1	3209.6	3092.4	3004.1	2952.7
3782.8	10°	3782.8	3772.6	3737.6	3610.2	3367.8	3049.3	2784.2	2564.4	2420.5	2352.7
3918.5	12.5°	3918.5	3906.1	3844.5	3583.5	3137.6	2640.4	2274.6	2030.1	1896.6	1837.0
4074.6	15°	4078.7	4062.3	3941.1	3456.1	2802.7	2188.3	1853.4	1670.5	1584.2	1530.8
4273.9	17.5°	4278.0	4249.3	4013.0	3265.0	2439.0	1843.1	1594.5	1456.8	1380.8	1329.4
4534.9	20°	4536.9	4489.7	4070.5	3037.0	2104.1	1625.3	1419.8	1304.8	1247.2	1202.0
4904.7	22.5°	4898.6	4830.8	4140.4	2790.4	1867.8	1475.3	1290.4	1206.2	1158.9	1107.5
5420.5	25°	5346.5	5266.4	4226.7	2562.3	1705.5	1345.9	1195.9	1126.0	1070.5	1010.9
6096.5	27.5°	5973.2	5829.4	4329.4	2375.3	1565.7	1234.9	1109.6	1031.5	967.8	918.5
6862.9	30°	6671.8	6435.5	4419.8	2262.3	1438.3	1132.2	996.6	918.5	858.9	824.0
7551.3	32.5°	7333.5	7012.9	4479.4	2213.0	1323.3	1015.1	873.3	789.0	743.8	733.6
8225.3	35°	7958.1	7534.8	4473.2	2165.7	1220.5	897.9	752.0	665.7	630.8	637.0
8950.6	37.5°	8677.3	8091.7	4430.1	2091.8	1136.3	791.1	647.3	571.2	540.4	542.5
9832.1	40°	9513.6	8734.8	4403.4	1952.0	1043.8	692.5	561.0	499.3	476.7	468.5
10760.8	42.5°	10405.4	9357.4	4407.5	1793.8	928.8	604.1	501.4	450.0	429.4	423.3
11794.4	45°	11301.2	9951.3	4413.7	1629.4	807.5	536.3	458.2	415.1	402.7	394.5
12842.3	47.5°	12143.7	10456.7	4298.6	1452.7	688.3	484.9	423.3	394.5	384.2	374.0
13894.4	50°	12928.6	10793.7	4021.2	1247.2	593.8	443.8	396.6	376.0	365.7	355.5
14847.8	52.5°	13538.9	10847.1	3563.0	1035.6	528.1	413.0	380.1	361.6	349.3	339.0
15618.3	55°	13810.1	10512.2	2911.6	838.3	476.7	386.3	363.7	345.2	330.8	320.5
16224.5	57.5°	13740.3	9807.4	2270.5	674.0	427.4	359.6	343.1	330.8	314.4	297.9
16715.6	60°	13397.1	8864.3	1711.6	561.0	382.2	330.8	320.5	310.3	287.7	263.0
16904.6	62.5°	12803.3	7678.7	1220.5	464.4	332.9	297.9	293.8	285.6	252.7	207.5
16625.2	65°	11895.1	6238.3	821.9	386.3	285.6	261.0	263.0	248.6	205.5	154.1
15601.9	67.5°	10567.7	4561.6	526.0	316.4	238.4	217.8	219.9	211.6	174.7	131.5
13662.2	70°	8876.6	3020.5	343.1	240.4	191.1	168.5	180.8	182.9	147.9	106.8
10485.5	72.5°	6507.5	1783.5	240.4	178.8	139.7	117.1	147.9	152.1	119.2	80.1
6308.2	75°	3708.9	846.6	180.8	129.5	86.3	82.2	115.1	115.1	82.2	53.4
2730.8	77.5°	1557.5	353.4	127.4	84.2	49.3	47.3	78.1	71.9	41.1	24.7
665.7	80°	450.0	158.2	67.8	41.1	20.5	18.5	30.8	22.6	10.3	4.1
252.7	82.5°	176.7	69.9	26.7	16.4	8.2	8.2	4.1	0.0	0.0	0.0
143.8	85°	104.8	28.8	12.3	6.2	2.1	0.0	0.0	0.0	0.0	0.0
30.8	87.5°	26.7	6.2	4.1	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°
3565.0
3540.4
3388.3
2954.8
2346.5
1830.8
1532.9
1325.3
1193.8
1099.3
1004.8
908.2
817.8
739.7
637.0
550.7
466.4
421.2
394.5
374.0
355.5
337.0
318.5
295.9
258.9
203.4
150.0
125.3
102.7
76.0
49.3
24.7
4.1
0.0
0.0
0.0
0.0

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