

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: P942996

Luminaire Tested: **GALN-SB7B-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942996
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-SB7B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 450mA 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: 31407 lumens
Efficiency: N/A
Efficacy: 122.3 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

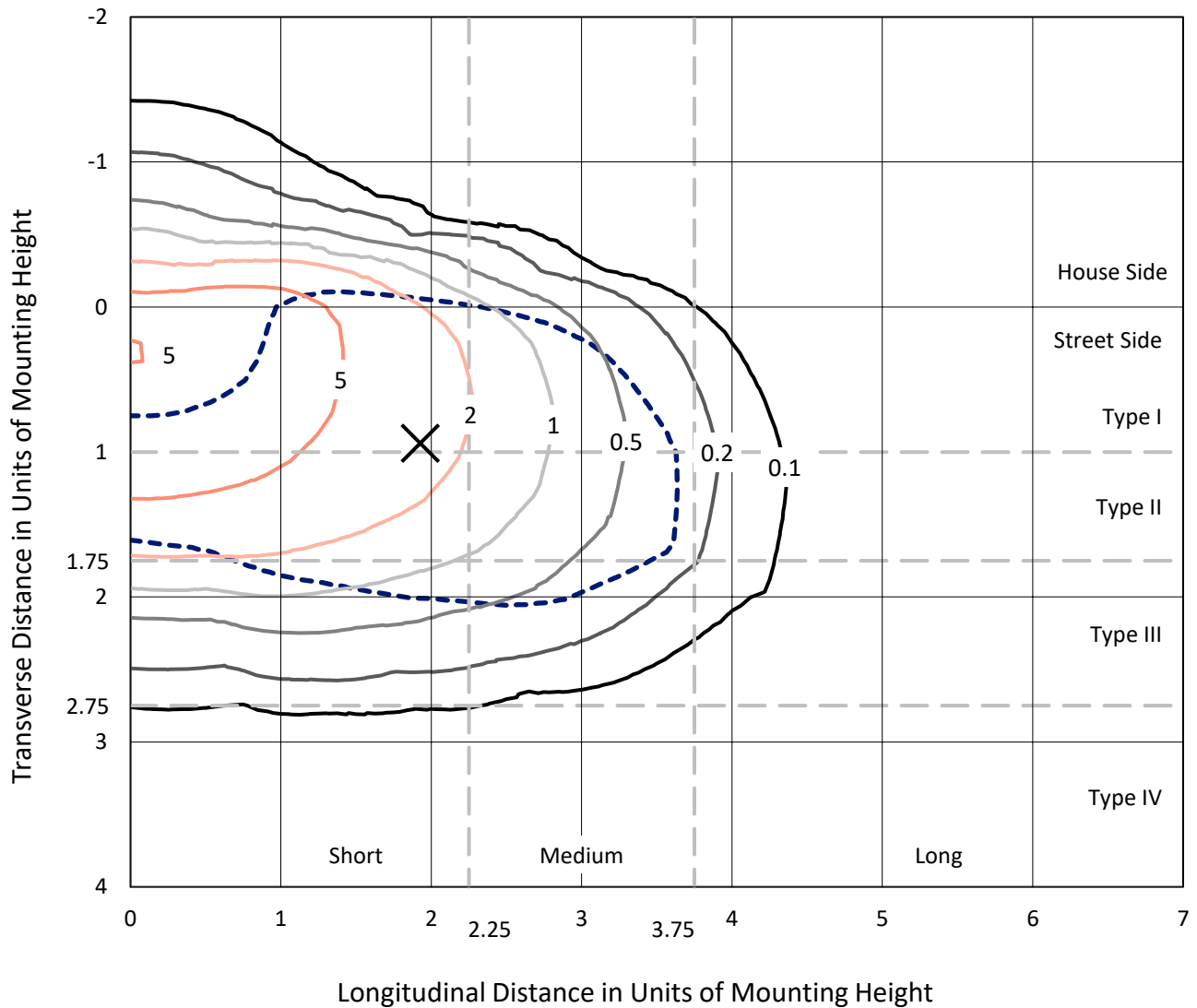
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

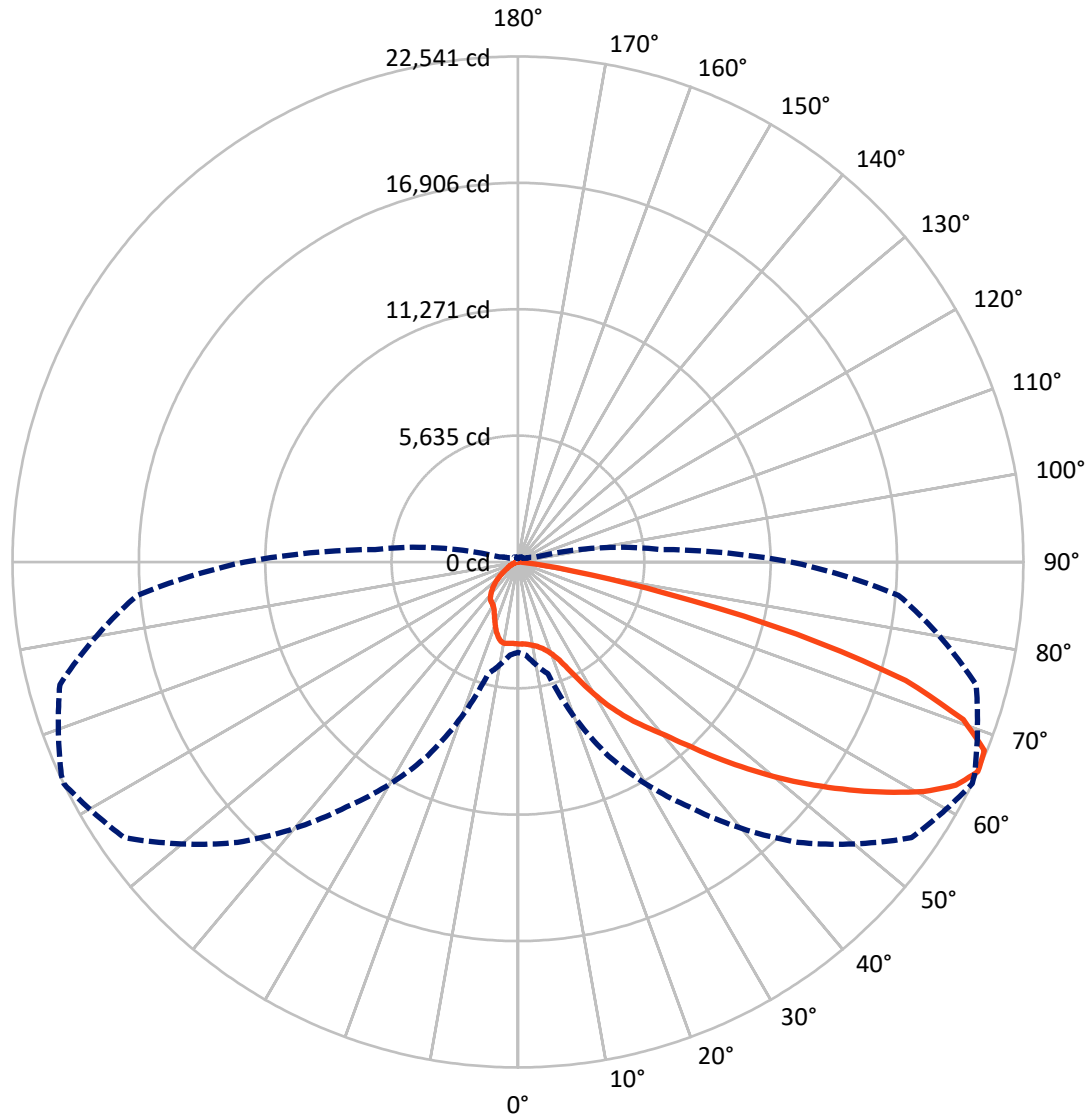
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	4200.1	0.0	4200.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	27206.9	0.0	27206.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	31407.0	0.0	31407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.0	1.1
10°-20°	914.1	2.9
20°-30°	1732.1	5.5
30°-40°	3505.0	11.2
40°-50°	5970.9	19.0
50°-60°	8119.9	25.9
60°-70°	7625.0	24.3
70°-80°	3054.9	9.7
80°-90°	148.0	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°	31407.0	100.0
0°-180°	31407.0	100.0

Coefficient of Utilization



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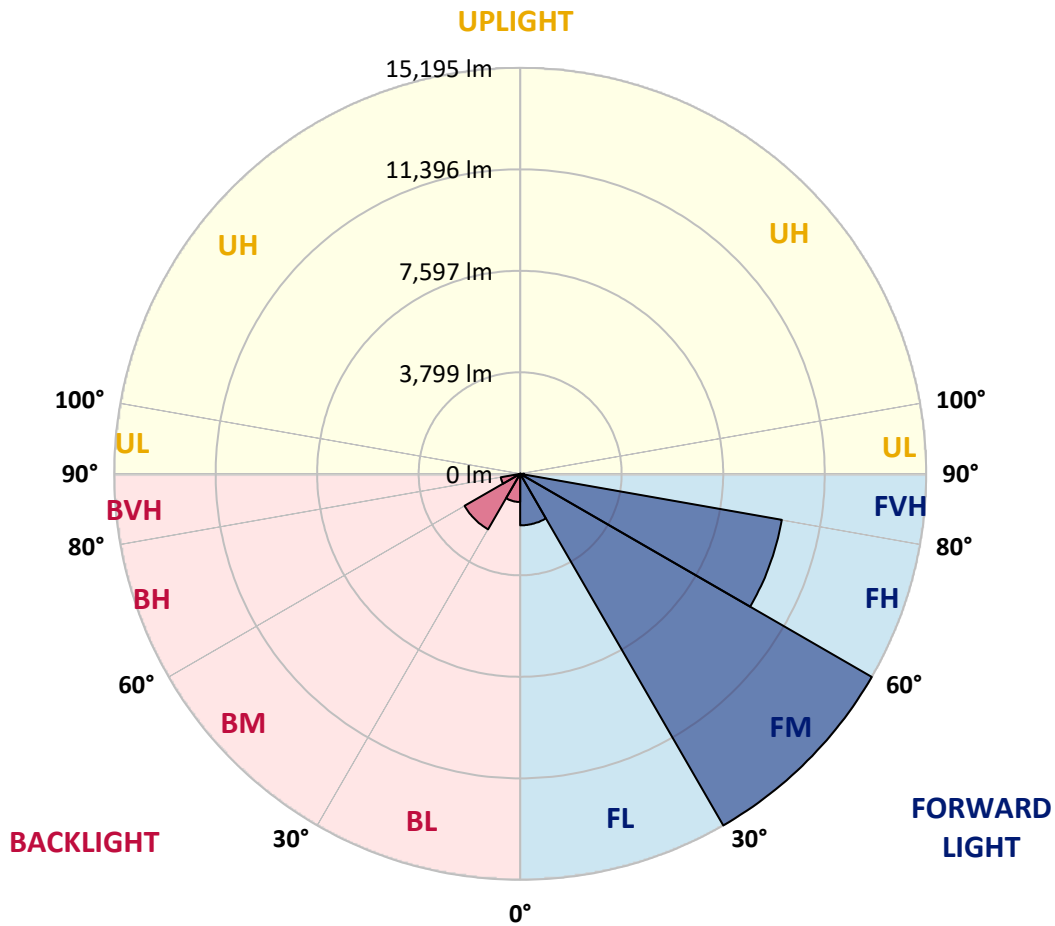
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1928.8	6.1			
FM (30°-60°)	15194.7	48.4			
FH (60°-80°)	9942.7	31.7			G4/12000
FVH (80°-90°)	140.8	0.4			G2/225
BL (0°-30°)	1054.5	3.4	B3/2500		
BM (30°-60°)	2401.1	7.6	B2/2500		
BH (60°-80°)	737.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0
2.5°	3640.3	3665.6	3659.3	3653.0	3650.9	3655.1	3657.2	3655.1	3655.1	3655.1
5°	3570.8	3591.9	3591.9	3606.6	3627.7	3653.0	3671.9	3676.1	3680.3	3686.6
7.5°	3438.2	3455.0	3467.7	3516.1	3568.7	3636.1	3693.0	3722.4	3726.7	3749.8
10°	3347.7	3368.7	3389.8	3440.3	3516.1	3617.2	3714.0	3785.6	3796.1	3850.9
12.5°	3343.5	3364.5	3391.9	3446.6	3535.1	3642.4	3760.3	3863.5	3882.5	3962.5
15°	3387.7	3412.9	3438.2	3505.6	3600.3	3730.9	3857.2	3985.6	4004.6	4118.3
17.5°	3478.2	3511.9	3530.8	3598.2	3699.3	3844.6	4010.9	4158.3	4175.1	4307.8
20°	3657.2	3697.2	3703.5	3758.2	3857.2	4013.0	4210.9	4394.1	4415.1	4566.7
22.5°	4027.7	4084.6	4034.0	4061.4	4149.8	4305.7	4520.4	4752.0	4781.5	4954.1
25°	4680.4	4760.4	4629.9	4583.6	4621.5	4783.6	5053.1	5345.7	5379.4	5518.4
27.5°	5962.6	5859.5	5661.6	5467.9	5354.2	5446.8	5750.0	6112.1	6154.2	6289.0
30°	7371.2	7280.7	7013.3	6583.8	6314.3	6299.5	6579.5	6983.8	7032.2	7160.6
32.5°	8781.8	8695.5	8405.0	7876.5	7409.1	7177.5	7371.2	7819.7	7844.9	7927.0
35°	10169.3	10080.9	9790.4	9249.3	8674.5	8148.1	8110.2	8615.5	8623.9	8710.3
37.5°	11565.3	11491.6	11182.1	10651.5	10085.1	9358.7	9007.1	9369.3	9379.8	9464.0
40°	12561.1	12592.7	12380.1	11969.5	11483.1	10689.4	10013.5	10171.4	10108.3	10249.3
42.5°	13415.9	13479.1	13293.8	13087.5	12805.4	12106.4	11260.0	11232.6	11131.5	11207.3
45°	14155.0	14207.6	14041.3	13992.8	13986.5	13496.0	12622.2	12458.0	12316.9	12302.2
47.5°	14426.6	14527.6	14599.2	14761.3	15077.1	14870.8	14030.7	13776.0	13618.1	13502.3
50°	14529.7	14637.1	14881.3	15353.0	16100.4	16188.8	15433.0	15146.6	14952.9	14742.4
52.5°	14390.8	14582.4	14910.8	15704.6	16788.9	17245.8	16778.4	16527.8	16306.7	15963.5
55°	13571.7	13763.3	14435.0	15700.4	17132.1	17986.9	18050.0	17938.5	17690.0	17148.9
57.5°	11845.3	12129.5	13192.8	15165.6	17125.8	18624.8	19296.5	19376.5	19098.6	18323.8
60°	9453.5	9838.8	11135.7	13980.2	16597.3	18970.1	20389.2	20789.2	20494.5	19481.8
62.5°	6596.4	7042.7	8270.2	12123.2	15388.8	18721.7	21187.2	21926.2	21703.0	20517.6
65°	4023.5	4166.7	5156.3	9539.8	13333.8	17681.6	21433.5	22541.0	22467.3	21151.4
67.5°	2680.2	2800.3	3084.5	6541.6	10350.4	15603.5	20844.0	22433.6	22454.7	21048.2
70°	1614.9	1718.0	1903.3	3804.6	6708.0	12350.6	19018.6	21065.1	21187.2	19669.1
72.5°	665.3	734.8	903.2	1724.4	3474.0	7838.6	15144.5	18085.8	18370.1	16538.3
75°	376.9	412.7	530.6	865.3	1507.5	3653.0	9173.5	12839.0	13258.0	11398.9
77.5°	250.5	267.4	343.2	560.1	848.5	1246.4	3920.4	6689.0	7489.1	6225.8
80°	168.4	183.2	235.8	374.8	551.6	534.8	1248.5	2478.1	3048.7	2139.1
82.5°	113.7	115.8	168.4	246.3	349.5	259.0	368.5	770.6	968.5	619.0
85°	65.3	63.2	124.2	143.2	155.8	107.4	111.6	231.6	303.2	261.1
87.5°	8.4	12.6	48.4	37.9	21.1	23.2	23.2	40.0	59.0	63.2
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°
3653.0	0°	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0
3657.2	2.5°	3657.2	3655.1	3648.7	3642.4	3627.7	3619.3	3623.5	3619.3	3617.2	3619.3
3684.5	5°	3684.5	3678.2	3661.4	3640.3	3610.9	3575.1	3551.9	3518.2	3486.6	3467.7
3758.2	7.5°	3758.2	3751.9	3728.8	3669.8	3575.1	3425.6	3288.7	3168.7	3078.2	3025.5
3876.1	10°	3876.1	3865.6	3829.8	3699.3	3450.8	3124.5	2852.9	2627.6	2480.2	2410.7
4015.1	12.5°	4015.1	4002.5	3939.3	3671.9	3215.0	2705.5	2330.7	2080.2	1943.3	1882.3
4175.1	15°	4179.3	4162.5	4038.3	3541.4	2871.8	2242.3	1899.1	1711.7	1623.3	1568.6
4379.3	17.5°	4383.6	4354.1	4111.9	3345.6	2499.2	1888.6	1633.8	1492.8	1414.9	1362.2
4646.7	20°	4648.8	4600.4	4170.9	3111.9	2156.0	1665.4	1454.9	1337.0	1278.0	1231.7
5025.7	22.5°	5019.4	4949.9	4242.5	2859.2	1913.9	1511.7	1322.2	1235.9	1187.5	1134.8
5554.2	25°	5478.4	5396.3	4330.9	2625.5	1747.5	1379.1	1225.4	1153.8	1096.9	1035.9
6246.9	27.5°	6120.6	5973.2	4436.2	2433.9	1604.4	1265.4	1136.9	1056.9	991.7	941.1
7032.2	30°	6836.4	6594.3	4528.8	2318.1	1473.8	1160.1	1021.1	941.1	880.1	844.3
7737.5	32.5°	7514.4	7185.9	4589.9	2267.6	1355.9	1040.1	894.8	808.5	762.2	751.6
8428.1	35°	8154.4	7720.7	4583.6	2219.1	1250.6	920.1	770.6	682.2	646.4	652.7
9171.4	37.5°	8891.3	8291.3	4539.4	2143.4	1164.3	810.6	663.2	585.3	553.7	555.8
10074.6	40°	9748.2	8950.3	4512.0	2000.2	1069.6	709.5	574.8	511.6	488.5	480.0
11026.3	42.5°	10662.0	9588.2	4516.2	1838.1	951.7	619.0	513.7	461.1	440.0	433.7
12085.3	45°	11580.0	10196.7	4522.5	1669.6	827.4	549.5	469.5	425.3	412.7	404.2
13159.1	47.5°	12443.2	10714.6	4404.6	1488.6	705.3	496.9	433.7	404.2	393.7	383.2
14237.1	50°	13247.5	11059.9	4120.4	1278.0	608.5	454.8	406.4	385.3	374.8	364.2
15214.0	52.5°	13872.8	11114.7	3650.9	1061.1	541.1	423.2	389.5	370.6	357.9	347.4
16003.5	55°	14150.7	10771.5	2983.4	859.0	488.5	395.8	372.7	353.7	339.0	328.5
16624.7	57.5°	14079.2	10049.3	2326.5	690.6	437.9	368.5	351.6	339.0	322.1	305.3
17127.9	60°	13727.6	9082.9	1753.8	574.8	391.6	339.0	328.5	317.9	294.8	269.5
17321.6	62.5°	13119.1	7868.1	1250.6	475.8	341.1	305.3	301.1	292.7	259.0	212.7
17035.2	65°	12188.5	6392.2	842.2	395.8	292.7	267.4	269.5	254.8	210.5	157.9
15986.7	67.5°	10828.3	4674.1	539.0	324.2	244.2	223.2	225.3	216.9	179.0	134.7
13999.2	70°	9095.6	3095.0	351.6	246.3	195.8	172.6	185.3	187.4	151.6	109.5
10744.1	72.5°	6668.0	1827.5	246.3	183.2	143.2	120.0	151.6	155.8	122.1	82.1
6463.7	75°	3800.3	867.4	185.3	132.6	88.4	84.2	117.9	117.9	84.2	54.7
2798.1	77.5°	1595.9	362.1	130.5	86.3	50.5	48.4	80.0	73.7	42.1	25.3
682.2	80°	461.1	162.1	69.5	42.1	21.1	18.9	31.6	23.2	10.5	4.2
259.0	82.5°	181.1	71.6	27.4	16.8	8.4	8.4	4.2	0.0	0.0	0.0
147.4	85°	107.4	29.5	12.6	6.3	2.1	0.0	0.0	0.0	0.0	0.0
31.6	87.5°	27.4	6.3	4.2	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>
3653.0
3627.7
3471.9
3027.6
2404.4
1876.0
1570.7
1358.0
1223.3
1126.4
1029.6
930.6
838.0
758.0
652.7
564.3
477.9
431.6
404.2
383.2
364.2
345.3
326.3
303.2
265.3
208.4
153.7
128.4
105.3
77.9
50.5
25.3
4.2
0.0
0.0
0.0
0.0

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