

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: P941316

Luminaire Tested: **GALN-SB4D-750-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941316
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-SB4D-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 900mA 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: 33839 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

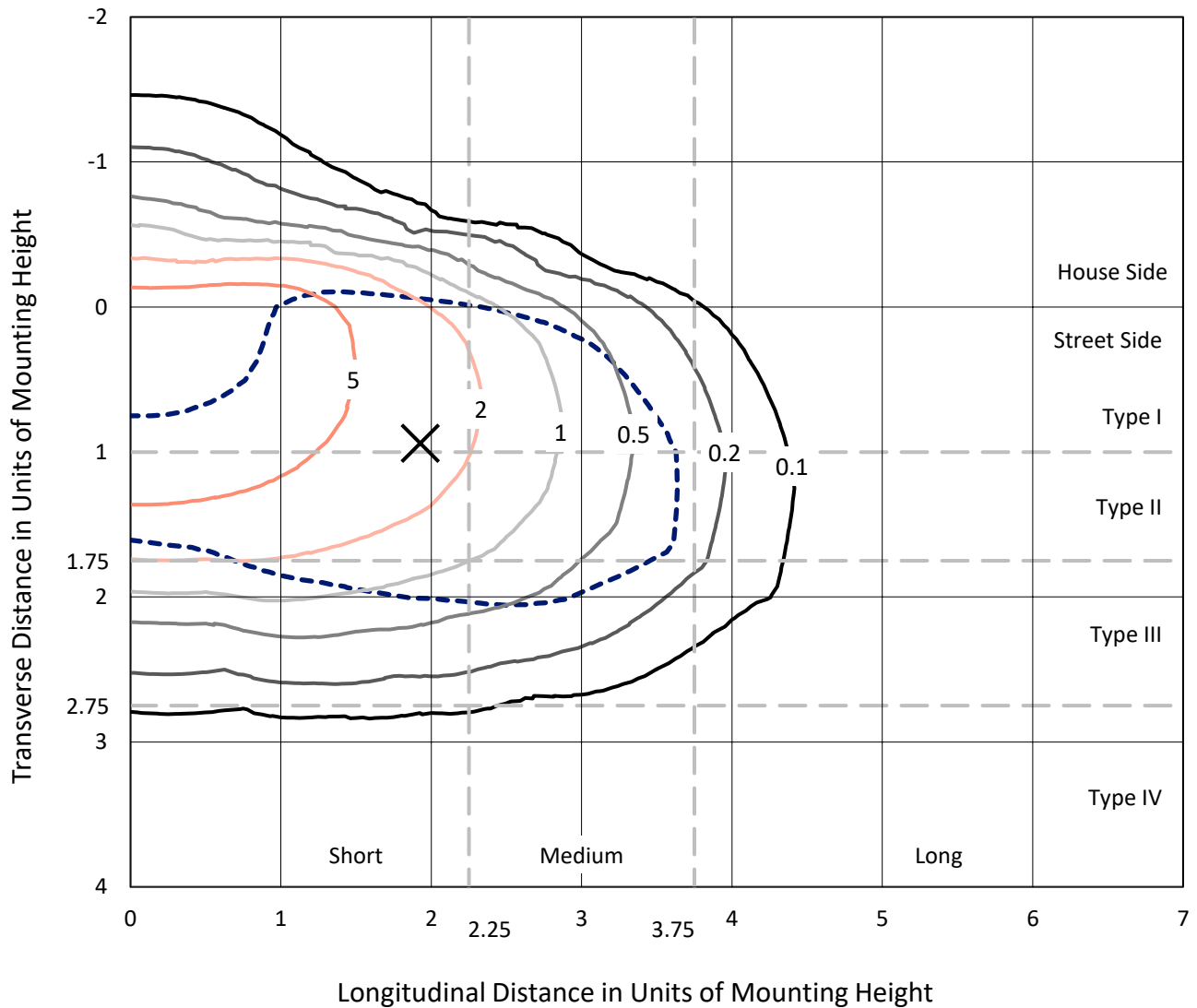
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

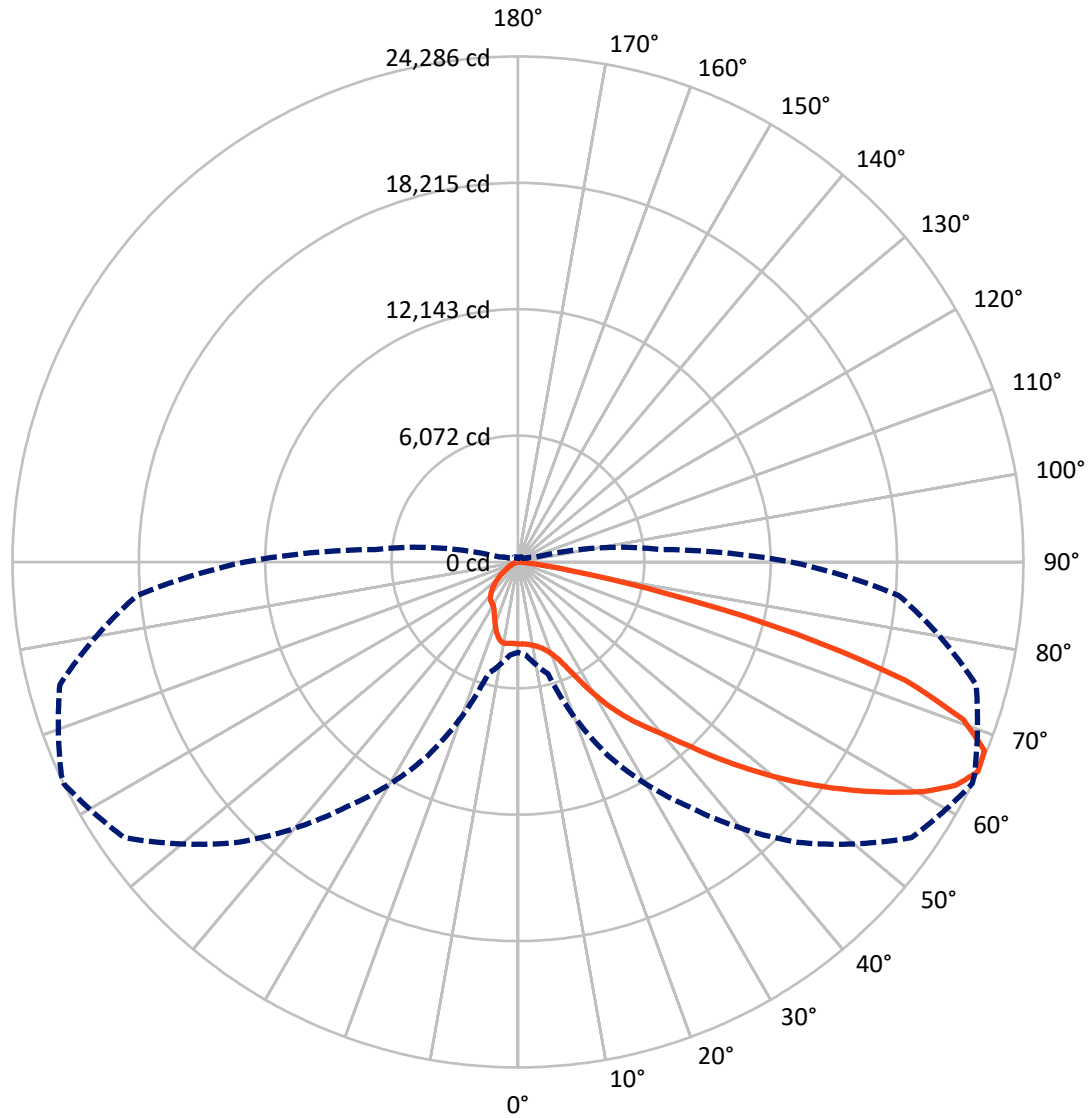
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	4525.3	0.0	4525.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	29313.7	0.0	29313.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	33839.0	0.0	33839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.1	1.1
10°-20°	984.9	2.9
20°-30°	1866.3	5.5
30°-40°	3776.5	11.2
40°-50°	6433.2	19.0
50°-60°	8748.7	25.9
60°-70°	8215.4	24.3
70°-80°	3291.5	9.7
80°-90°	159.5	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°	33839.0	100.0
0°-180°	33839.0	100.0

Coefficient of Utilization



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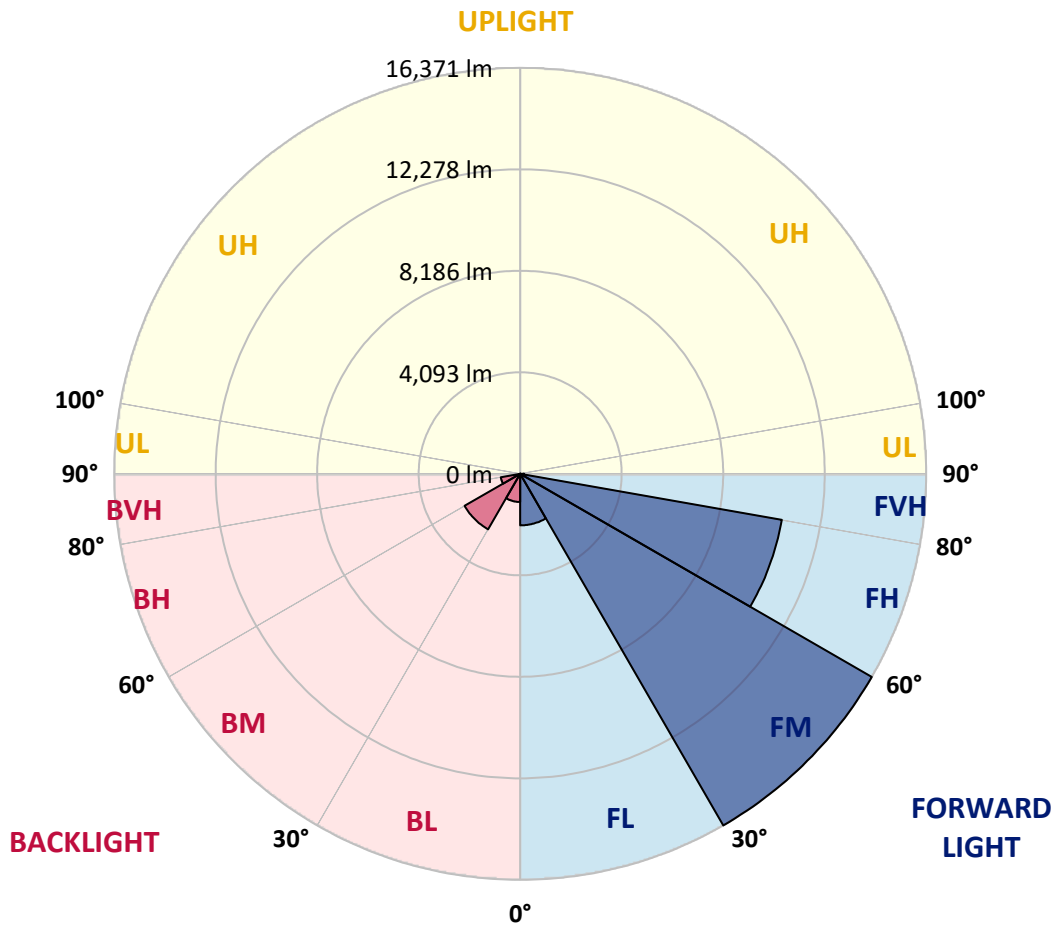
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2078.1	6.1			
FM (30°-60°)	16371.3	48.4			
FH (60°-80°)	10712.7	31.7			G4/12000
FVH (80°-90°)	151.7	0.4			G2/225
BL (0°-30°)	1136.2	3.4	B3/2500		
BM (30°-60°)	2587.1	7.6	B3/5000		
BH (60°-80°)	794.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.8	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8
2.5°	3922.2	3949.4	3942.6	3935.8	3933.6	3938.1	3940.4	3938.1	3938.1	3938.1
5°	3847.4	3870.0	3870.0	3885.9	3908.6	3935.8	3956.2	3960.8	3965.3	3972.1
7.5°	3704.4	3722.6	3736.2	3788.4	3845.1	3917.7	3978.9	4010.7	4015.2	4040.2
10°	3606.9	3629.6	3652.3	3706.7	3788.4	3897.3	4001.6	4078.7	4090.1	4149.1
12.5°	3602.4	3625.0	3654.5	3713.5	3808.8	3924.5	4051.5	4162.7	4183.1	4269.3
15°	3650.0	3677.2	3704.4	3777.0	3879.1	4019.8	4155.9	4294.2	4314.7	4437.2
17.5°	3747.5	3783.8	3804.3	3876.8	3985.7	4142.3	4321.5	4480.3	4498.4	4641.3
20°	3940.4	3983.5	3990.3	4049.3	4155.9	4323.7	4537.0	4734.3	4757.0	4920.4
22.5°	4339.6	4400.9	4346.4	4375.9	4471.2	4639.1	4870.4	5120.0	5151.7	5337.8
25°	5042.8	5129.1	4988.4	4938.5	4979.3	5154.0	5444.4	5759.7	5796.0	5945.7
27.5°	6424.4	6313.2	6100.0	5891.3	5768.8	5868.6	6195.2	6585.4	6630.8	6776.0
30°	7942.0	7844.4	7556.3	7093.6	6803.2	6787.3	7089.0	7524.6	7576.8	7715.1
32.5°	9461.9	9368.9	9055.8	8486.4	7982.8	7733.3	7942.0	8425.2	8452.4	8540.9
35°	10956.8	10861.5	10548.5	9965.5	9346.2	8779.0	8738.2	9282.7	9291.7	9384.7
37.5°	12460.8	12381.4	12047.9	11476.3	10866.1	10083.4	9704.6	10094.8	10106.1	10196.9
40°	13533.8	13567.8	13338.7	12896.4	12372.3	11517.1	10788.9	10959.1	10891.0	11043.0
42.5°	14454.8	14522.9	14323.2	14100.9	13796.9	13043.8	12131.9	12102.4	11993.5	12075.2
45°	15251.0	15307.8	15128.5	15076.4	15069.6	14541.0	13599.6	13422.6	13270.7	13254.8
47.5°	15543.7	15652.6	15729.7	15904.4	16244.6	16022.3	15117.2	14842.7	14672.6	14547.8
50°	15654.8	15770.5	16033.7	16541.8	17347.1	17442.4	16628.0	16319.5	16110.8	15884.0
52.5°	15505.1	15711.5	16065.4	16920.7	18088.9	18581.2	18077.6	17807.6	17569.4	17199.7
55°	14622.7	14829.1	15552.8	16916.1	18458.7	19379.7	19447.7	19327.5	19059.8	18476.8
57.5°	12762.5	13068.8	14214.3	16339.9	18451.9	20067.0	20790.7	20876.9	20577.5	19742.7
60°	10185.5	10600.6	11998.0	15062.8	17882.5	20439.1	21968.0	22399.1	22081.5	20990.3
62.5°	7107.2	7588.1	8910.6	13062.0	16580.4	20171.4	22827.8	23624.0	23383.6	22106.4
65°	4335.1	4489.3	5555.5	10278.5	14366.3	19050.8	23093.2	24286.4	24207.0	22789.2
67.5°	2887.8	3017.1	3323.3	7048.2	11151.9	16811.8	22458.0	24170.7	24193.4	22678.1
70°	1739.9	1851.1	2050.7	4099.2	7227.4	13307.0	20491.3	22696.2	22827.8	21192.2
72.5°	716.8	791.7	973.2	1857.9	3743.0	8445.6	16317.2	19486.3	19792.6	17819.0
75°	406.1	444.6	571.7	932.3	1624.2	3935.8	9883.8	13833.2	14284.7	12281.6
77.5°	270.0	288.1	369.8	603.4	914.2	1342.9	4223.9	7207.0	8069.0	6707.9
80°	181.5	197.4	254.1	403.8	594.3	576.2	1345.2	2670.0	3284.8	2304.8
82.5°	122.5	124.8	181.5	265.4	376.6	279.0	397.0	830.3	1043.5	666.9
85°	70.3	68.1	133.8	154.3	167.9	115.7	120.2	249.5	326.7	281.3
87.5°	9.1	13.6	52.2	40.8	22.7	25.0	25.0	43.1	63.5	68.1
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°
3935.8	0°	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8
3940.4	2.5°	3940.4	3938.1	3931.3	3924.5	3908.6	3899.5	3904.1	3899.5	3897.3	3899.5
3969.9	5°	3969.9	3963.0	3944.9	3922.2	3890.5	3851.9	3826.9	3790.6	3756.6	3736.2
4049.3	7.5°	4049.3	4042.4	4017.5	3954.0	3851.9	3690.8	3543.4	3414.1	3316.5	3259.8
4176.3	10°	4176.3	4164.9	4126.4	3985.7	3718.1	3366.4	3073.8	2831.1	2672.3	2597.4
4326.0	12.5°	4326.0	4312.4	4244.3	3956.2	3464.0	2915.0	2511.2	2241.3	2093.8	2028.0
4498.4	15°	4502.9	4484.8	4351.0	3815.6	3094.2	2415.9	2046.2	1844.3	1749.0	1690.0
4718.5	17.5°	4723.0	4691.2	4430.4	3604.6	2692.7	2034.8	1760.3	1608.4	1524.4	1467.7
5006.6	20°	5008.8	4956.6	4493.9	3352.8	2322.9	1794.4	1567.5	1440.5	1377.0	1327.1
5414.9	22.5°	5408.1	5333.2	4571.0	3080.6	2062.1	1628.8	1424.6	1331.6	1279.4	1222.7
5984.3	25°	5902.6	5814.1	4666.3	2828.8	1882.8	1485.9	1320.3	1243.1	1181.9	1116.1
6730.6	27.5°	6594.5	6435.7	4779.7	2622.4	1728.6	1363.4	1225.0	1138.8	1068.5	1014.0
7576.8	30°	7365.8	7104.9	4879.5	2497.6	1587.9	1249.9	1100.2	1014.0	948.2	909.7
8336.7	32.5°	8096.2	7742.4	4945.3	2443.2	1460.9	1120.6	964.1	871.1	821.2	809.9
9080.8	35°	8785.9	8318.5	4938.5	2391.0	1347.5	991.3	830.3	735.0	696.4	703.2
9881.5	37.5°	9579.8	8933.3	4890.9	2309.3	1254.5	873.4	714.6	630.6	596.6	598.9
10854.7	40°	10503.1	9643.3	4861.4	2155.1	1152.4	764.5	619.3	551.2	526.3	517.2
11880.1	42.5°	11487.6	10330.7	4865.9	1980.4	1025.4	666.9	553.5	496.8	474.1	467.3
13021.1	45°	12476.7	10986.3	4872.7	1798.9	891.5	592.1	505.9	458.2	444.6	435.5
14178.1	47.5°	13406.8	11544.3	4745.7	1603.8	759.9	535.4	467.3	435.5	424.2	412.9
15339.5	50°	14273.3	11916.4	4439.4	1377.0	655.6	490.0	437.8	415.1	403.8	392.4
16392.1	52.5°	14947.1	11975.3	3933.6	1143.3	583.0	456.0	419.7	399.3	385.6	374.3
17242.8	55°	15246.5	11605.6	3214.4	925.5	526.3	426.5	401.5	381.1	365.2	353.9
17912.0	57.5°	15169.4	10827.5	2506.7	744.1	471.8	397.0	378.8	365.2	347.1	328.9
18454.2	60°	14790.5	9786.3	1889.7	619.3	421.9	365.2	353.9	342.5	317.6	290.4
18662.9	62.5°	14135.0	8477.3	1347.5	512.7	367.5	328.9	324.4	315.3	279.0	229.1
18354.3	65°	13132.3	6887.1	907.4	426.5	315.3	288.1	290.4	274.5	226.8	170.1
17224.6	67.5°	11666.8	5036.0	580.7	349.3	263.1	240.5	242.7	233.7	192.8	145.2
15083.2	70°	9799.9	3334.7	378.8	265.4	211.0	186.0	199.6	201.9	163.3	118.0
11576.1	72.5°	7184.3	1969.0	265.4	197.4	154.3	129.3	163.3	167.9	131.6	88.5
6964.3	75°	4094.6	934.6	199.6	142.9	95.3	90.7	127.0	127.0	90.7	59.0
3014.8	77.5°	1719.5	390.2	140.6	93.0	54.4	52.2	86.2	79.4	45.4	27.2
735.0	80°	496.8	174.7	74.9	45.4	22.7	20.4	34.0	25.0	11.3	4.5
279.0	82.5°	195.1	77.1	29.5	18.1	9.1	9.1	4.5	0.0	0.0	0.0
158.8	85°	115.7	31.8	13.6	6.8	2.3	0.0	0.0	0.0	0.0	0.0
34.0	87.5°	29.5	6.8	4.5	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°
3935.8
3908.6
3740.7
3262.1
2590.6
2021.2
1692.3
1463.2
1318.0
1213.6
1109.3
1002.7
902.9
816.7
703.2
608.0
514.9
465.0
435.5
412.9
392.4
372.0
351.6
326.7
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165.6
138.4
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