

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: P953879

Luminaire Tested: **GALN-SB7B-750-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32635 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

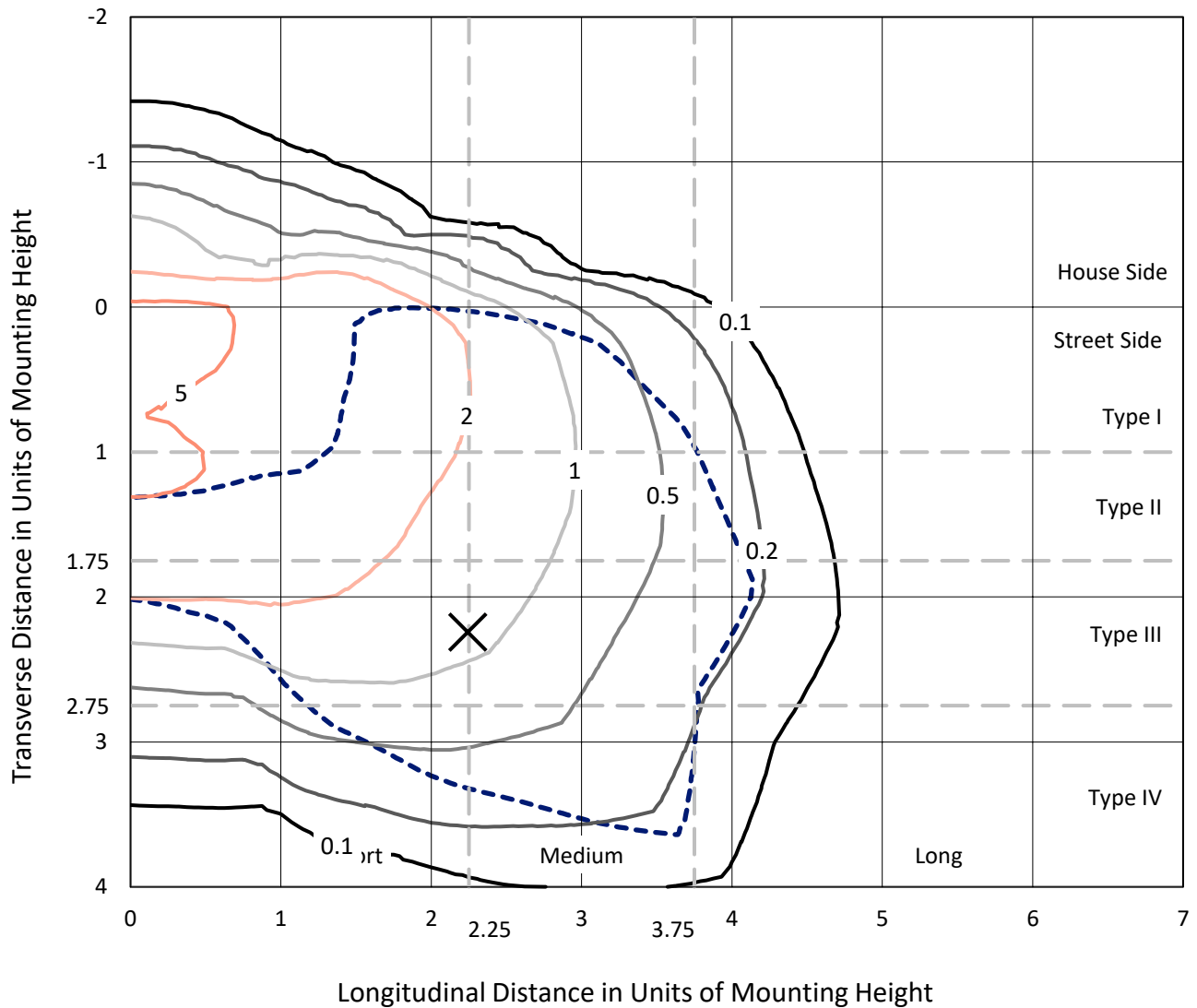
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

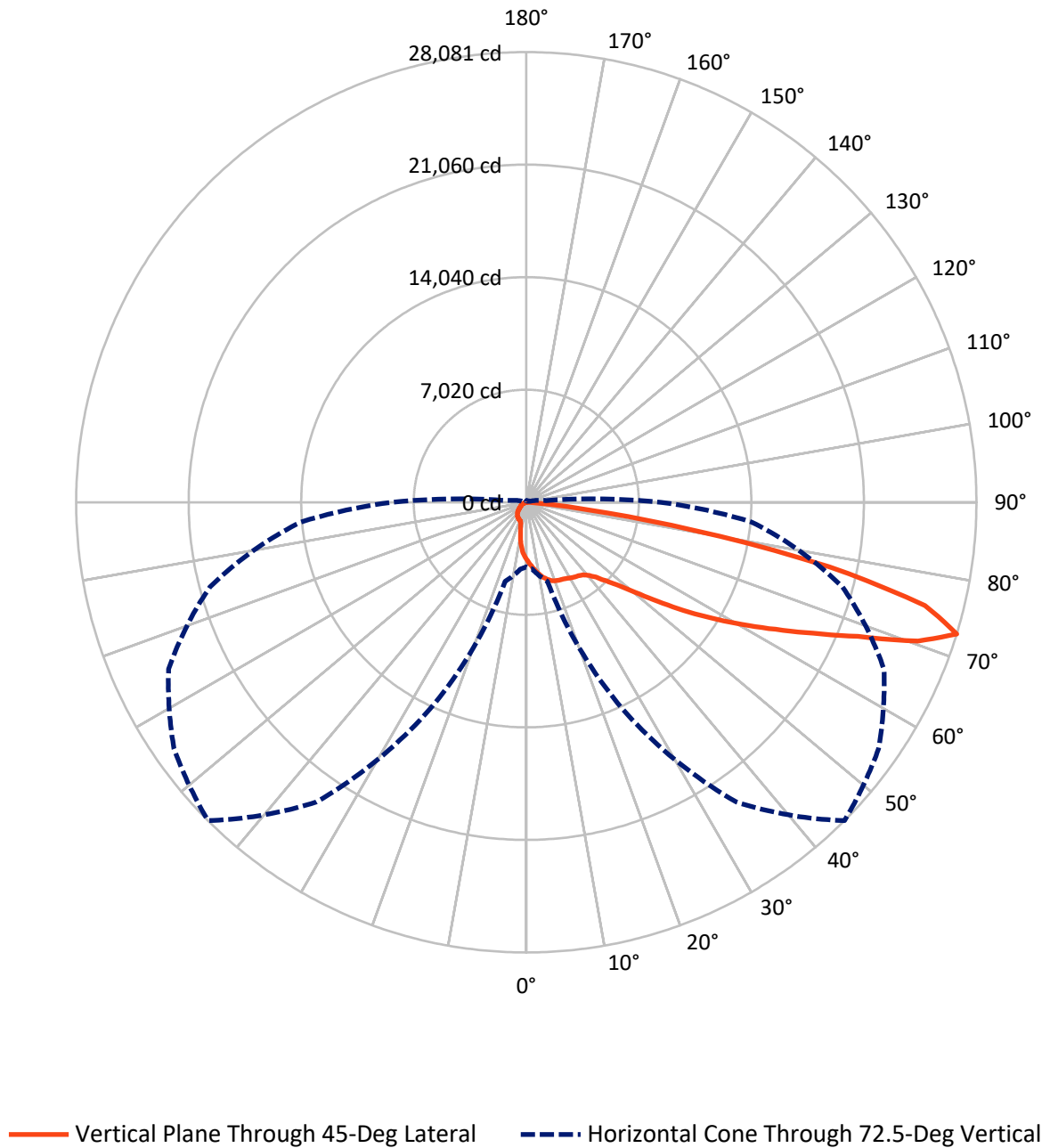
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3429.0	0.0	3429.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	29206.0	0.0	29206.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	32635.0	0.0	32635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.9	1.0
10°-20°	984.5	3.0
20°-30°	1616.7	5.0
30°-40°	2292.9	7.0
40°-50°	3789.9	11.6
50°-60°	6808.0	20.9
60°-70°	9453.3	29.0
70°-80°	6857.1	21.0
80°-90°	495.7	1.5
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°	32635.0	100.0
0°-180°	32635.0	100.0

Coefficient of Utilization



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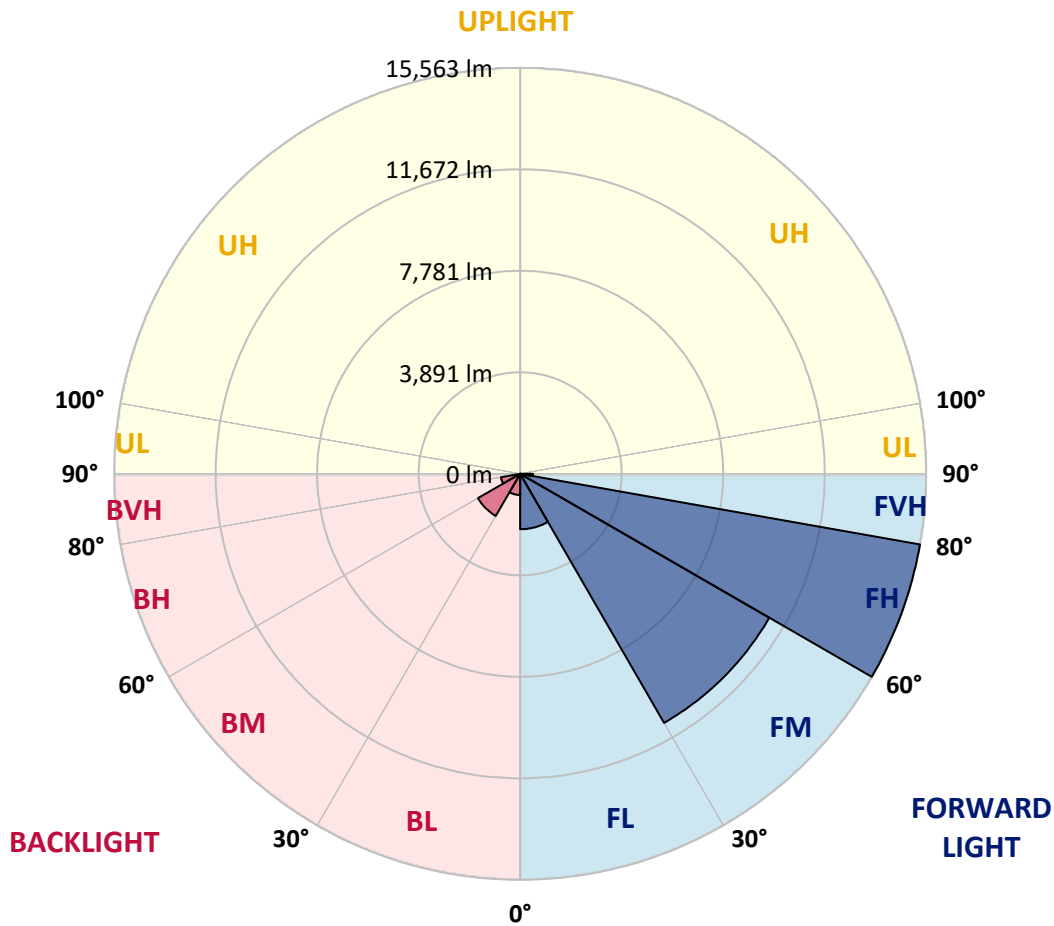
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2125.8	6.5			
FM (30°-60°)	11025.8	33.8			
FH (60°-80°)	15562.7	47.7			G5
FVH (80°-90°)	491.6	1.5			G3/500
BL (0°-30°)	812.2	2.5	B2/1000		
BM (30°-60°)	1864.9	5.7	B2/2500		
BH (60°-80°)	747.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2
2.5°	3904.9	3911.6	3907.1	3880.4	3835.9	3811.4	3798.0	3753.4	3724.5	3673.2
5°	4263.5	4290.3	4274.7	4221.2	4136.6	4076.4	4058.6	3967.3	3884.9	3789.1
7.5°	4644.5	4657.8	4628.9	4559.8	4446.2	4343.7	4328.1	4201.2	4069.8	3922.7
10°	4974.1	4989.7	4945.2	4844.9	4715.7	4588.8	4566.5	4426.2	4270.2	4089.8
12.5°	5250.4	5266.0	5208.0	5087.7	4945.2	4813.8	4791.5	4644.5	4472.9	4272.5
15°	5459.7	5488.7	5410.7	5281.5	5127.8	4996.4	4985.3	4840.5	4673.4	4450.7
17.5°	5582.3	5611.2	5537.7	5381.8	5250.4	5139.0	5125.6	5005.3	4849.4	4635.6
20°	5602.3	5629.0	5551.1	5415.2	5306.0	5216.9	5210.3	5123.4	5009.8	4804.8
22.5°	5542.2	5575.6	5504.3	5395.2	5319.4	5272.6	5263.7	5214.7	5150.1	4976.4
25°	5479.8	5506.5	5453.1	5357.3	5317.2	5312.7	5319.4	5310.5	5297.1	5150.1
27.5°	5475.3	5504.3	5444.2	5352.8	5330.6	5377.3	5384.0	5426.3	5437.5	5308.3
30°	5513.2	5533.3	5475.3	5379.6	5368.4	5475.3	5477.6	5553.3	5571.1	5441.9
32.5°	5595.6	5617.9	5560.0	5419.7	5404.1	5553.3	5560.0	5660.2	5689.2	5584.5
35°	5789.4	5816.2	5749.3	5531.0	5475.3	5626.8	5646.9	5764.9	5822.8	5736.0
37.5°	6272.8	6194.8	6103.5	5756.0	5638.0	5742.6	5776.1	5914.2	6016.6	5916.4
40°	7473.5	7228.4	6943.3	6139.2	5923.1	5989.9	6016.6	6154.7	6295.1	6197.1
42.5°	9275.6	8986.0	8527.1	7021.3	6353.0	6386.4	6406.5	6526.8	6725.0	6647.0
45°	10881.6	10776.9	10309.1	8527.1	7157.2	6992.3	7016.8	7079.2	7371.0	7342.0
47.5°	12115.7	12055.6	11694.7	10255.7	8516.0	7734.1	7803.1	7832.1	8253.1	8355.6
50°	13064.6	13042.4	12719.4	11792.7	10291.3	8827.8	8852.3	8790.0	9420.4	9674.3
52.5°	13960.1	14035.9	13797.5	13220.6	12187.0	10260.1	10255.7	9961.6	10812.6	11195.7
55°	14768.7	14795.5	14820.0	14677.4	14093.8	11890.7	11848.4	11367.2	12427.6	12824.1
57.5°	15528.3	15539.5	15757.8	16049.6	16078.5	13641.6	13563.6	12986.7	14191.8	14474.7
60°	16038.4	16089.7	16550.8	17361.6	17715.8	15448.1	15405.8	14817.7	15987.2	16118.6
62.5°	15303.3	15615.2	16778.0	18386.3	19261.7	17450.7	17430.7	16878.2	17876.2	17769.2
65°	12387.5	12915.4	14960.3	19079.1	20778.7	19687.2	19716.1	19128.1	19816.4	19468.9
67.5°	8665.2	9222.1	11641.2	19134.7	22473.9	22313.5	22480.5	21558.3	21876.9	21097.2
70°	5992.1	6279.5	7854.4	17936.3	23794.8	25931.0	25926.6	24543.3	23926.2	21839.0
72.5°	4029.7	4178.9	5101.1	14229.7	22823.6	28080.6	27951.4	26824.3	24616.8	20424.5
75°	1699.6	1808.8	2361.2	7996.9	18056.6	25690.4	25340.7	23705.7	21872.4	16083.0
77.5°	539.1	585.8	931.1	2862.4	9946.1	19310.7	18940.9	14804.4	14659.6	8068.2
80°	256.2	298.5	523.5	1149.4	3913.8	10502.9	10451.7	6716.1	6306.2	2178.6
82.5°	111.4	131.4	289.6	614.8	1750.9	3746.8	3822.5	2285.5	1891.2	826.4
85°	35.6	46.8	133.7	282.9	739.5	931.1	920.0	543.5	761.8	450.0
87.5°	0.0	0.0	44.6	64.6	75.7	53.5	60.1	46.8	211.6	124.7
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°
3575.2	0°	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2
3619.8	2.5°	3593.1	3557.4	3495.0	3437.1	3385.9	3334.7	3303.5	3258.9	3254.5	3254.5
3677.7	5°	3617.6	3559.6	3448.3	3330.2	3194.3	3065.1	2935.9	2811.2	2771.1	2742.1
3771.3	7.5°	3688.8	3597.5	3421.5	3196.5	2938.2	2655.3	2457.0	2243.2	2160.7	2116.2
3896.0	10°	3791.3	3666.6	3399.3	3005.0	2586.2	2200.8	1917.9	1686.3	1597.2	1559.3
4031.9	12.5°	3904.9	3751.2	3359.2	2766.6	2200.8	1739.7	1463.5	1356.6	1343.2	1343.2
4194.5	15°	4040.8	3853.7	3290.1	2486.0	1797.6	1376.6	1278.6	1283.1	1296.4	1305.4
4352.7	17.5°	4181.1	3962.8	3181.0	2171.9	1441.2	1238.5	1240.8	1247.4	1258.6	1267.5
4524.2	20°	4332.6	4072.0	3036.2	1837.7	1236.3	1198.4	1205.1	1211.8	1220.7	1225.2
4684.6	22.5°	4495.2	4174.4	2864.6	1510.3	1167.2	1165.0	1167.2	1173.9	1185.1	1185.1
4871.7	25°	4669.0	4288.1	2668.6	1271.9	1131.6	1131.6	1136.1	1140.5	1149.4	1149.4
5052.1	27.5°	4847.2	4392.7	2461.5	1147.2	1100.4	1098.2	1098.2	1104.9	1109.3	1111.6
5230.3	30°	5043.2	4515.3	2254.3	1120.5	1075.9	1064.8	1058.1	1062.5	1067.0	1069.2
5417.4	32.5°	5243.7	4633.3	2069.4	1131.6	1051.4	1031.4	1009.1	1004.6	1004.6	1013.5
5611.2	35°	5466.4	4762.5	1926.8	1169.5	1038.0	982.4	946.7	926.7	928.9	942.3
5842.9	37.5°	5733.7	4918.5	1822.1	1202.9	1029.1	926.7	868.7	844.2	828.7	844.2
6161.4	40°	6083.5	5147.9	1746.4	1229.6	1018.0	862.1	784.1	744.0	715.0	724.0
6655.9	42.5°	6598.0	5508.8	1717.4	1231.8	993.5	786.3	697.2	643.8	601.4	603.7
7400.0	45°	7319.8	6079.0	1866.7	1202.9	940.0	703.9	605.9	534.6	507.9	501.2
8511.5	47.5°	8308.8	6909.9	2212.0	1142.7	862.1	623.7	516.8	456.6	436.6	425.5
9970.6	50°	9634.2	7976.9	2595.1	1075.9	784.1	548.0	443.3	405.4	392.1	380.9
11701.4	52.5°	11171.2	9059.5	2909.2	1009.1	706.1	481.2	396.5	374.2	363.1	354.2
13372.0	55°	12581.3	9805.7	2891.4	937.8	630.4	427.7	363.1	349.7	336.4	327.5
14811.0	57.5°	13458.9	9910.4	2383.5	859.8	543.5	385.4	331.9	323.0	307.4	296.3
16056.3	60°	13862.1	9313.4	1670.7	757.4	456.6	345.3	298.5	294.0	274.0	258.4
17234.6	62.5°	13935.6	8204.1	1113.8	630.4	380.9	307.4	265.1	258.4	231.7	204.9
18192.5	65°	13637.1	6618.1	770.7	492.3	325.2	267.3	227.2	213.8	184.9	158.2
18419.7	67.5°	12692.6	4646.7	536.8	354.2	276.2	211.6	180.4	176.0	153.7	131.4
17261.4	70°	10961.8	2648.6	358.6	265.1	218.3	144.8	142.6	147.0	124.7	106.9
14102.7	72.5°	8404.6	1211.8	222.8	193.8	149.2	98.0	113.6	115.8	95.8	80.2
8798.9	75°	4947.4	519.0	140.3	124.7	75.7	64.6	82.4	84.6	64.6	51.2
3216.6	77.5°	1684.0	196.0	89.1	73.5	37.9	35.6	53.5	53.5	35.6	20.0
646.0	80°	383.1	73.5	44.6	29.0	17.8	15.6	17.8	15.6	8.9	2.2
198.3	82.5°	109.2	29.0	17.8	11.1	6.7	6.7	2.2	0.0	0.0	0.0
69.1	85°	31.2	13.4	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
24.5	87.5°	13.4	2.2	0.0	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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180°
3575.2
3265.6
2755.5
2122.9
1559.3
1343.2
1305.4
1267.5
1227.4
1189.5
1151.6
1113.8
1073.7
1020.2
948.9
839.8
719.5
594.8
492.3
418.8
378.7
352.0
323.0
294.0
253.9
191.6
149.2
124.7
98.0
71.3
44.6
15.6
0.0
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