

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: P942999

Luminaire Tested: **GALN-SB7B-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39581 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

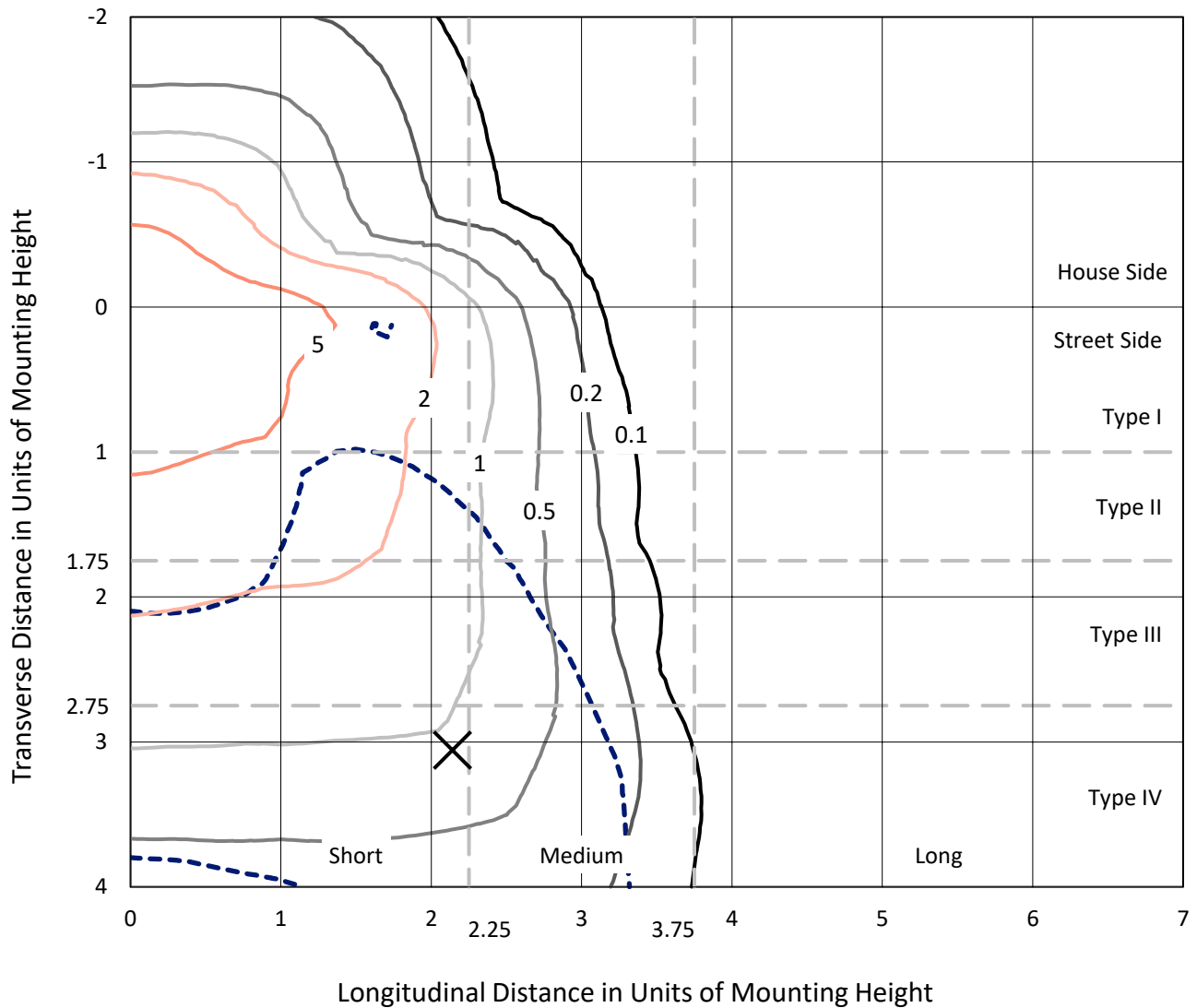
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

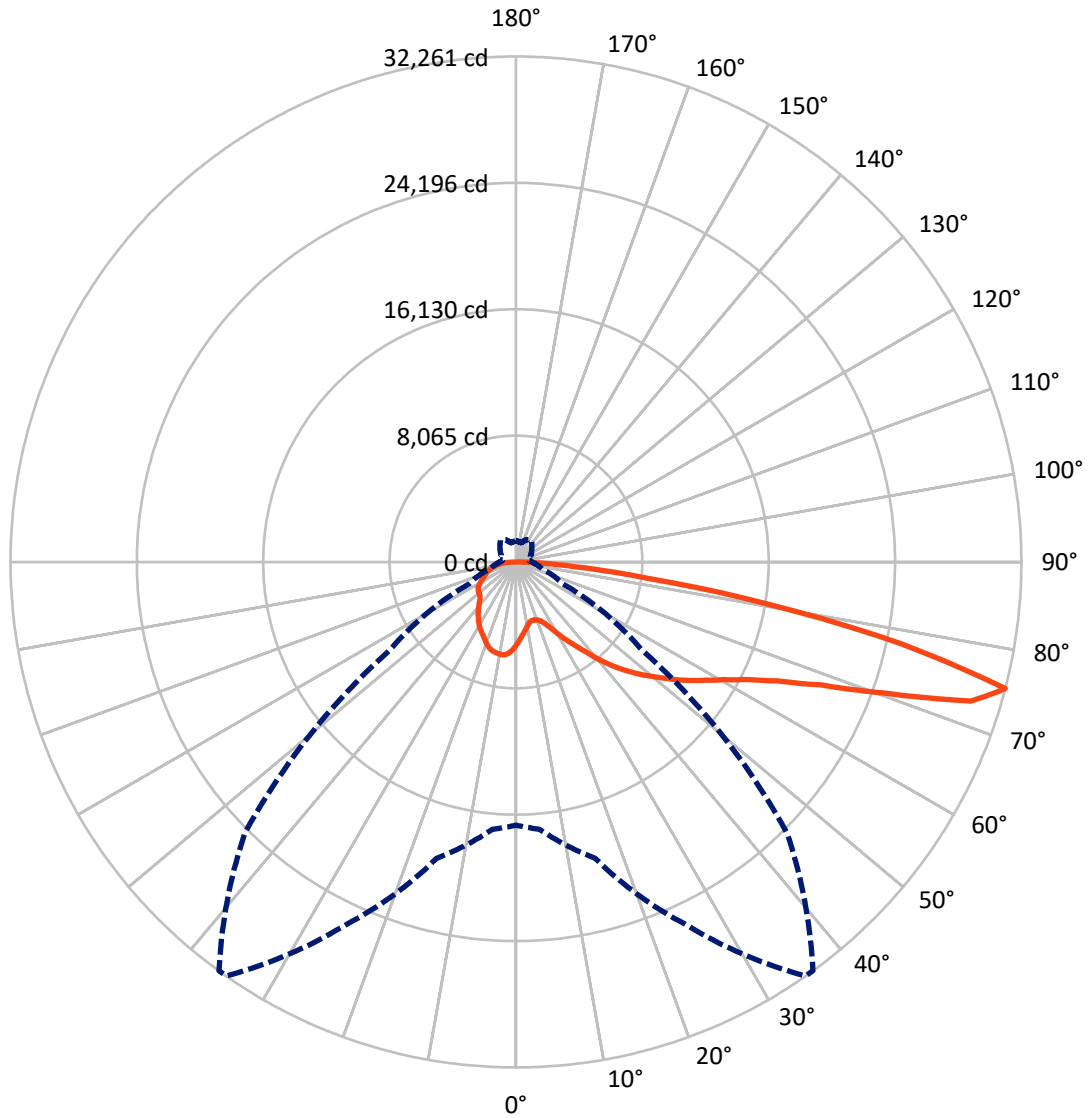
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9419.3	0.0	9419.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	30161.7	0.0	30161.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	39581.0	0.0	39581.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.4	1.3
10°-20°	1440.4	3.6
20°-30°	2418.9	6.1
30°-40°	3759.3	9.5
40°-50°	5579.8	14.1
50°-60°	7703.2	19.5
60°-70°	9345.7	23.6
70°-80°	7723.5	19.5
80°-90°	1110.9	2.8
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°	39581.0	100.0
0°-180°	39581.0	100.0



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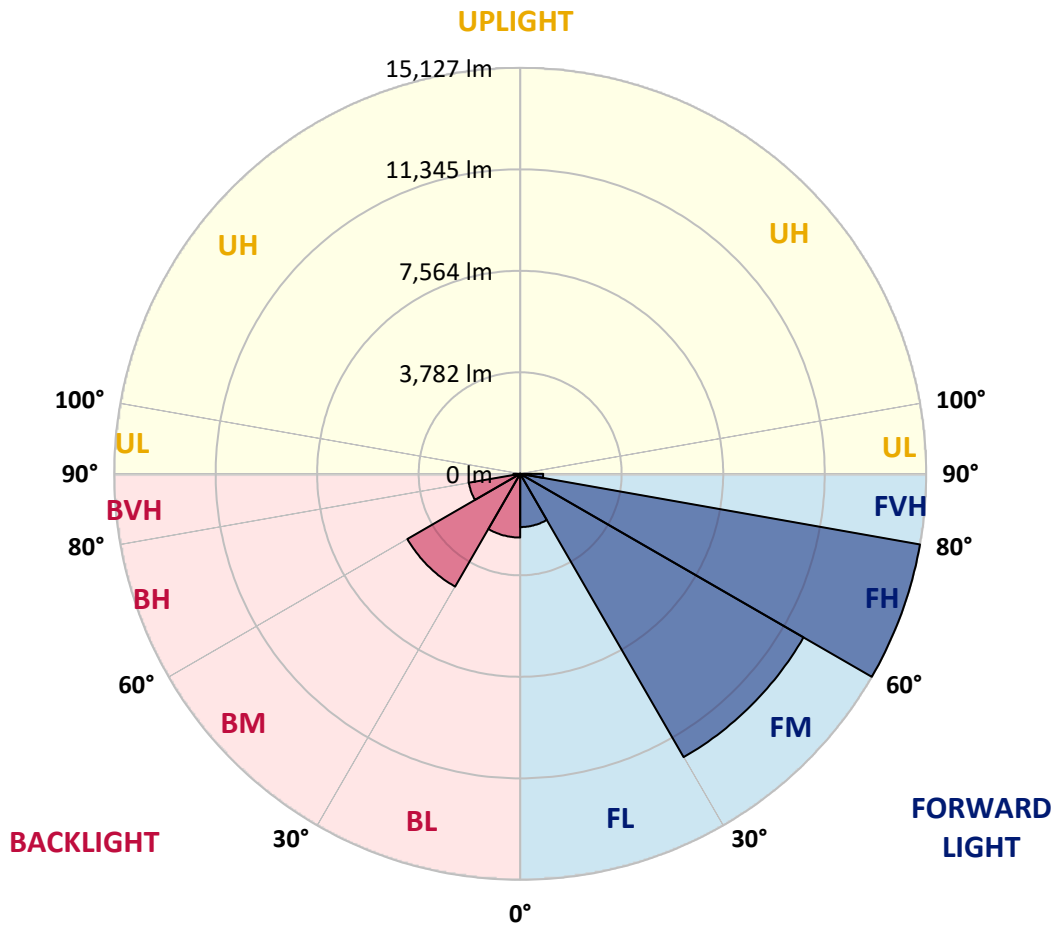
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1984.9	5.0			
FM (30°-60°)	12188.8	30.8			
FH (60°-80°)	15127.3	38.2			G5
FVH (80°-90°)	860.7	2.2			G5
BL (0°-30°)	2373.8	6.0	B3/2500		
BM (30°-60°)	4853.4	12.3	B3/5000		
BH (60°-80°)	1942.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	250.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5274.4	5274.4	5274.4	5274.4	5274.4	5274.4	5274.4	5274.4	5274.4	5274.4
2.5°	4863.6	4893.6	4906.4	4900.0	4932.1	4927.8	4972.7	5028.4	5105.4	5180.3
5°	4489.2	4521.3	4549.1	4574.7	4636.8	4656.1	4726.7	4833.7	4974.9	5118.2
7.5°	4140.4	4168.2	4211.0	4258.1	4362.9	4382.2	4499.9	4666.8	4863.6	5073.3
10°	3855.8	3883.6	3928.5	3982.0	4112.6	4136.1	4285.9	4508.4	4765.2	5030.5
12.5°	3733.8	3742.4	3768.1	3821.6	3935.0	3949.9	4114.7	4369.3	4668.9	4998.4
15°	3727.4	3744.5	3746.7	3774.5	3868.6	3875.1	4027.0	4279.5	4609.0	4992.0
17.5°	3791.6	3804.4	3785.2	3802.3	3881.5	3892.2	4012.0	4236.7	4589.7	5019.8
20°	3962.8	3973.5	3915.7	3892.2	3949.9	3958.5	4076.2	4264.5	4609.0	5077.6
22.5°	4326.5	4333.0	4191.7	4095.4	4099.7	4104.0	4206.7	4377.9	4683.9	5182.4
25°	4893.6	4889.3	4664.6	4478.5	4371.5	4347.9	4416.4	4561.9	4810.1	5321.5
27.5°	5556.9	5524.8	5300.1	5021.9	4788.7	4754.5	4739.5	4801.6	4989.9	5505.5
30°	6305.8	6275.8	6034.0	5670.3	5347.2	5291.6	5150.3	5118.2	5257.3	5755.9
32.5°	7127.4	7108.2	6819.3	6378.5	5946.3	5882.1	5644.6	5559.0	5668.1	6134.6
35°	7816.4	7799.3	7559.7	7106.0	6577.5	6498.4	6256.6	6160.3	6215.9	6620.3
37.5°	8439.1	8430.5	8225.1	7867.8	7322.2	7225.9	6954.1	6922.0	6911.3	7260.1
40°	9016.8	8995.4	8781.5	8593.2	8188.7	8101.0	7861.4	7833.6	7752.2	8047.5
42.5°	9656.6	9601.0	9290.7	9203.0	9093.9	9021.1	8877.7	8882.0	8702.3	8935.5
45°	10178.7	10146.6	9827.8	9776.4	9894.1	9864.2	9988.3	10020.4	9671.6	9866.3
47.5°	10739.3	10709.4	10439.7	10403.4	10722.2	10730.7	11169.4	11180.1	10617.3	10833.5
50°	11430.4	11387.6	11120.2	11165.1	11522.4	11554.5	12356.9	12284.2	11488.2	11815.6
52.5°	11886.2	11911.9	11854.1	11926.9	12414.7	12444.7	13525.2	13339.1	12350.5	12784.9
55°	12222.1	12273.5	12453.2	12620.1	13356.2	13386.2	14627.2	14342.6	13065.2	13683.6
57.5°	12654.4	12581.6	12917.6	13242.8	14250.6	14329.8	15699.2	15309.8	13698.6	14458.2
60°	13274.9	13223.5	13484.6	13966.0	15252.0	15378.2	16833.3	16180.6	14162.9	15072.3
62.5°	14533.1	14404.7	14445.3	14871.1	16514.4	16681.3	18112.8	16940.2	14394.0	15311.9
65°	16413.9	16193.5	15988.1	16283.4	18292.6	18457.3	19557.1	17537.2	14308.4	14847.6
67.5°	18782.6	18564.3	18311.8	18590.0	20911.6	21042.1	21339.5	17873.2	13634.4	13058.8
70°	20736.1	20654.8	20956.5	22101.3	25094.8	25099.0	23624.8	17595.0	11787.8	9258.6
72.5°	20477.2	20428.0	22017.8	25556.9	30367.1	30253.7	25788.0	15489.5	7940.5	4176.8
75°	16799.0	17117.8	19580.7	25494.9	32260.7	32245.7	24463.5	9847.0	3284.5	1731.0
77.5°	9008.3	9513.2	12712.1	18823.2	25184.6	25563.4	17199.2	3445.0	1410.1	1108.4
80°	2937.9	3378.6	5066.9	9583.9	16364.7	16294.0	7371.4	1352.3	965.0	785.3
82.5°	1247.5	1298.8	2263.8	4525.5	8398.4	8267.9	2347.3	776.7	678.3	537.1
85°	487.9	545.6	999.3	2092.7	3637.5	3558.4	847.3	385.2	434.4	350.9
87.5°	160.5	194.7	357.3	716.8	1131.9	1091.3	207.6	132.7	188.3	160.5
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°
5274.4	0°	5274.4	5274.4	5274.4	5274.4	5274.4	5274.4	5274.4	5274.4	5274.4	5274.4
5289.4	2.5°	5319.4	5353.6	5394.3	5454.2	5505.5	5548.3	5593.3	5621.1	5631.8	5663.9
5298.0	5°	5357.9	5432.8	5533.3	5631.8	5728.1	5785.8	5837.2	5862.9	5886.4	5903.5
5321.5	7.5°	5422.1	5518.4	5676.7	5805.1	5886.4	5933.5	5967.7	5959.1	5967.7	5972.0
5347.2	10°	5477.7	5612.5	5800.8	5922.8	5984.8	5987.0	5978.4	5948.5	5933.5	5935.6
5385.7	12.5°	5544.0	5693.8	5897.1	5999.8	6016.9	5969.8	5933.5	5882.1	5862.9	5854.3
5443.5	15°	5633.9	5805.1	6001.9	6040.5	5997.7	5937.8	5875.7	5792.3	5749.5	5715.2
5541.9	17.5°	5743.0	5931.3	6083.3	6055.4	5963.4	5865.0	5764.4	5638.2	5550.5	5514.1
5676.7	20°	5895.0	6064.0	6145.3	6023.3	5884.3	5734.5	5563.3	5409.2	5327.9	5291.6
5847.9	22.5°	6079.0	6241.6	6205.2	5967.7	5770.9	5531.2	5317.2	5203.8	5163.2	5137.5
6068.3	25°	6299.4	6438.4	6248.0	5886.4	5584.7	5261.6	5096.8	5060.5	5041.2	5021.9
6337.9	27.5°	6586.1	6661.0	6280.1	5766.6	5293.7	4974.9	4915.0	4921.4	4915.0	4882.9
6712.3	30°	6964.8	6949.8	6310.1	5571.9	4959.9	4716.0	4720.2	4748.1	4752.3	4730.9
7234.4	32.5°	7463.4	7311.5	6325.0	5319.4	4641.1	4489.2	4493.4	4523.4	4544.8	4508.4
7917.0	35°	8066.8	7733.0	6301.5	5002.7	4395.0	4273.0	4240.9	4249.5	4255.9	4221.7
8745.1	37.5°	8770.8	8205.9	6196.7	4651.8	4191.7	4061.2	3992.7	3935.0	3900.7	3868.6
9682.3	40°	9543.2	8721.5	6004.1	4309.4	3964.9	3836.5	3733.8	3624.7	3509.2	3466.4
10675.1	42.5°	10352.0	9252.2	5770.9	3982.0	3703.9	3599.0	3489.9	3331.6	3158.2	3070.5
11706.5	45°	11190.8	9795.7	5541.9	3658.9	3436.4	3391.5	3265.2	3074.8	2886.5	2775.2
12740.0	47.5°	12012.4	10309.2	5206.0	3333.7	3186.1	3235.3	3136.8	2961.4	2751.7	2576.2
13764.9	50°	12797.7	10790.7	4656.1	3004.2	2982.8	3188.2	3094.1	2841.6	2601.9	2377.2
14770.6	52.5°	13576.6	11180.1	3952.1	2704.6	2873.7	3175.4	3038.4	2760.3	2467.1	2231.7
15716.3	55°	14237.8	11381.2	3273.8	2447.9	2715.3	3066.2	2972.1	2664.0	2276.7	2026.3
16364.7	57.5°	14614.4	11218.6	2708.9	2195.4	2497.1	2886.5	2858.7	2458.6	2049.9	1857.3
16490.9	60°	14451.7	10559.6	2246.7	1975.0	2289.5	2691.8	2661.8	2255.3	1876.5	1694.7
15814.7	62.5°	13555.2	9303.5	1880.8	1782.4	2101.2	2492.8	2465.0	2099.1	1743.9	1568.4
14019.5	65°	11749.3	7568.2	1596.2	1621.9	1910.8	2253.1	2293.8	1968.6	1639.0	1467.9
10846.3	67.5°	8961.2	5482.0	1373.7	1482.8	1724.6	2017.8	2135.5	1874.4	1551.3	1388.7
6275.8	70°	5107.5	3113.3	1185.4	1348.0	1559.9	1799.5	2013.5	1799.5	1457.2	1322.4
2351.6	72.5°	1936.5	1429.3	1024.9	1213.2	1401.5	1615.5	1878.7	1681.8	1348.0	1247.5
1215.4	75°	1033.5	870.9	862.3	1054.9	1219.6	1435.8	1709.6	1566.3	1266.7	1318.1
840.9	77.5°	704.0	616.2	721.1	903.0	1020.7	1236.8	1529.9	1390.8	1097.7	1093.4
582.0	80°	487.9	436.5	586.3	727.5	789.6	1039.9	1335.2	1194.0	894.4	834.5
359.5	82.5°	293.1	284.6	438.6	543.5	558.5	802.4	1106.2	1001.4	731.8	637.6
214.0	85°	160.5	169.0	280.3	318.8	325.2	560.6	866.6	774.6	562.7	472.9
77.0	87.5°	44.9	57.8	102.7	126.2	156.2	291.0	515.7	460.0	282.4	196.9
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°
5274.4
5661.7
5907.8
5978.4
5939.9
5850.0
5725.9
5516.2
5287.3
5141.8
5021.9
4889.3
4741.6
4525.5
4245.2
3890.0
3485.6
3081.2
2766.7
2557.0
2358.0
2206.1
2004.9
1831.6
1669.0
1540.6
1440.0
1363.0
1305.2
1230.3
1360.9
1007.8
798.1
641.9
477.2
196.9
0.0

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