

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: P943542

Luminaire Tested: **GALN-SB8A-827-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943542  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB8A-827-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

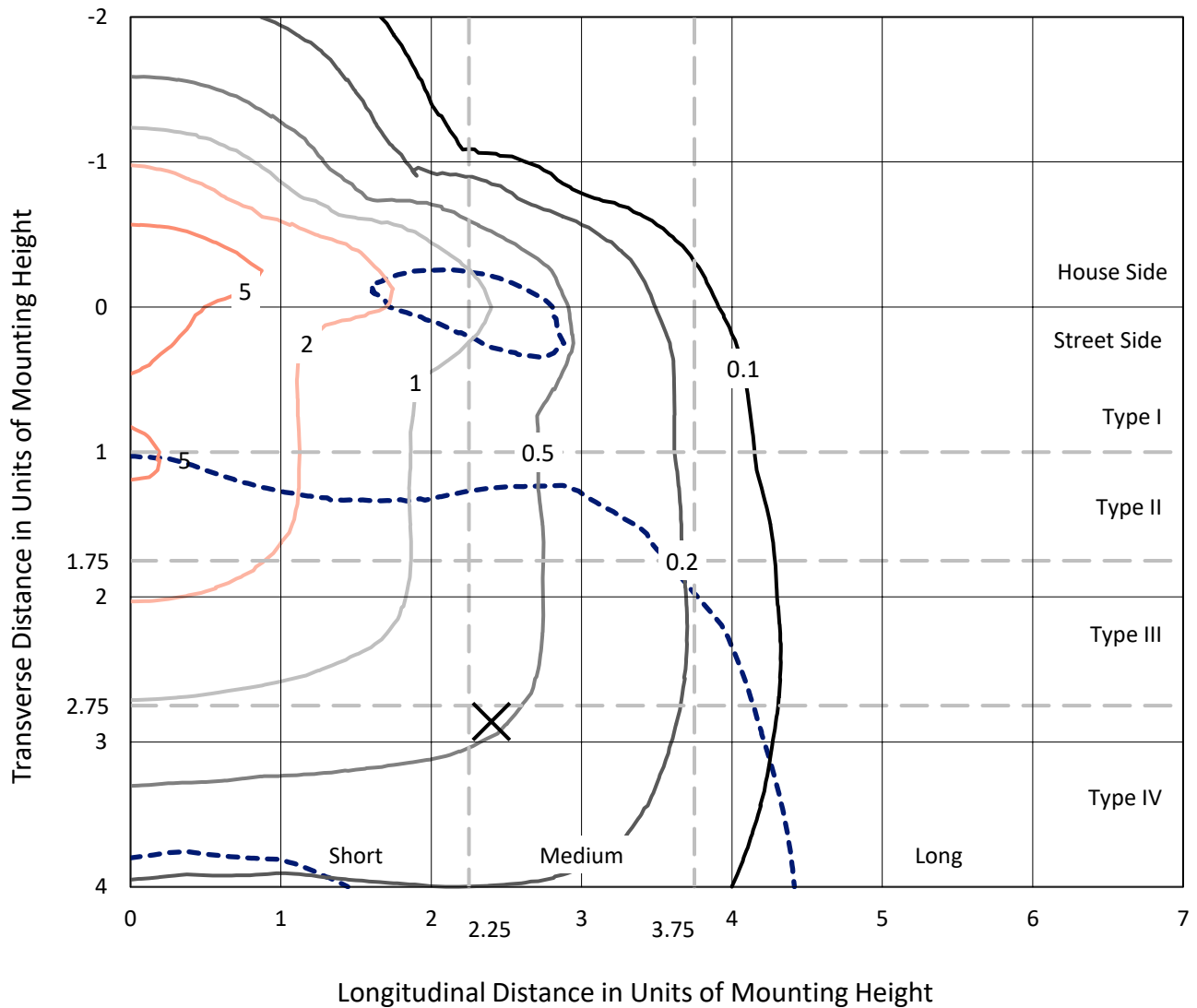
Lumens per Lamp: N/A  
Luminaire Lumens: 31266 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

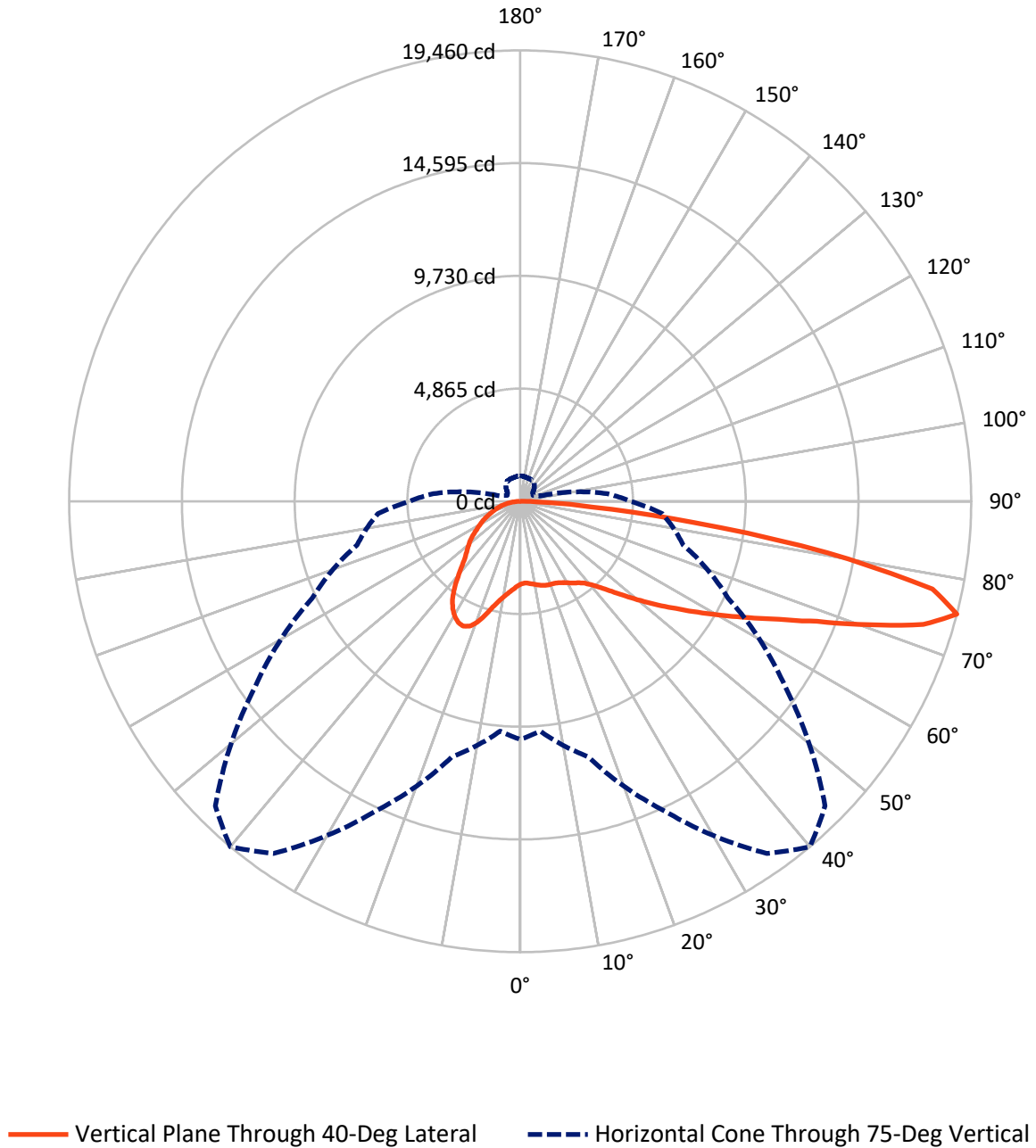
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9687.3	0.0	9687.3
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	21578.7	0.0	21578.7
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	31266.0	0.0	31266.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.9	1.1
10°-20°	1198.2	3.8
20°-30°	2187.9	7.0
30°-40°	3103.0	9.9
40°-50°	4190.0	13.4
50°-60°	5636.6	18.0
60°-70°	7154.2	22.9
70°-80°	6492.8	20.8
80°-90°	946.5	3.0
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°	31266.0	100.0
0°-180°	31266.0	100.0



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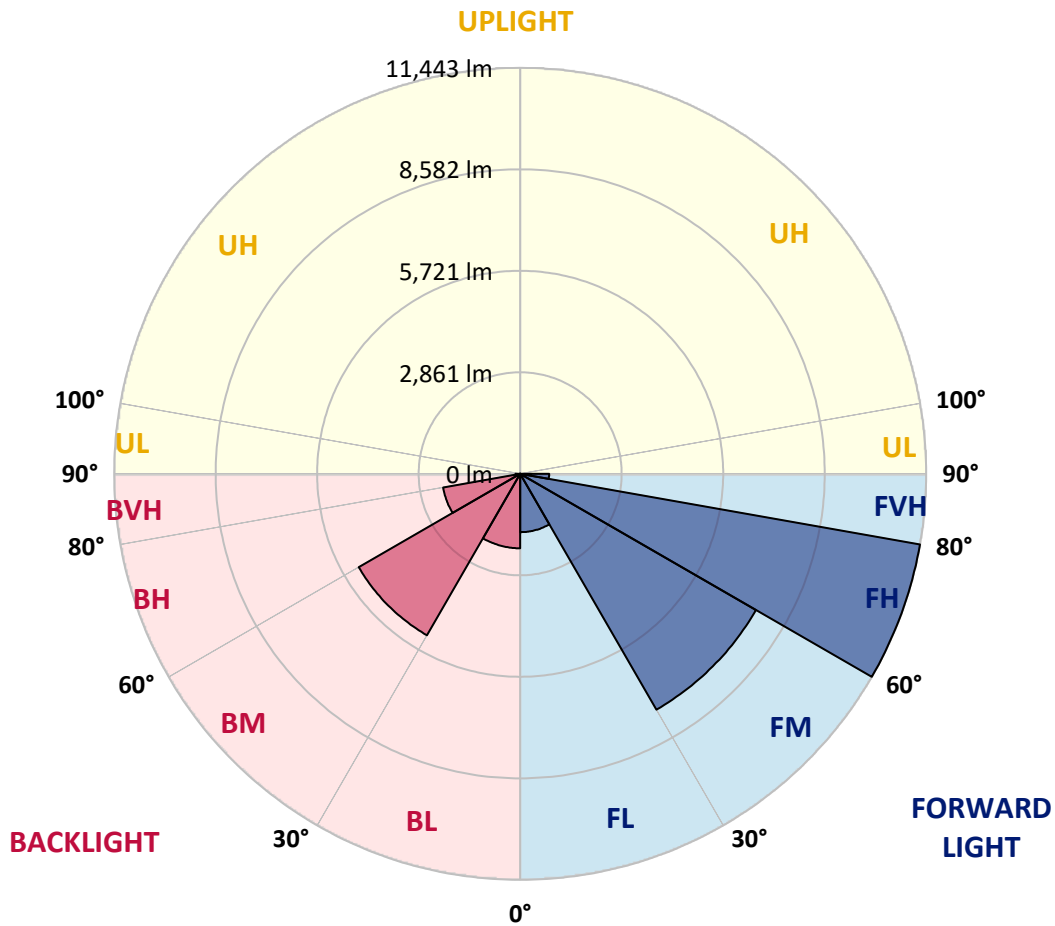
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1644.6	5.3			
FM (30°-60°)	7675.1	24.5			
FH (60°-80°)	11442.9	36.6			G4/12000
FVH (80°-90°)	816.1	2.6			G5
BL (0°-30°)	2098.3	6.7	B3/2500		
BM (30°-60°)	5254.5	16.8	B4/8500		
BH (60°-80°)	2204.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	130.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3575.3	3575.3	3575.3	3575.3	3575.3	3575.3	3575.3	3575.3	3575.3	3575.3
2.5°	3520.6	3540.5	3535.5	3528.9	3528.9	3530.5	3528.9	3540.5	3552.1	3563.7
5°	3557.1	3577.0	3567.0	3558.7	3552.1	3550.4	3545.5	3543.8	3550.4	3565.4
7.5°	3628.4	3648.3	3633.3	3618.4	3605.2	3598.5	3591.9	3581.9	3577.0	3585.3
10°	3708.0	3727.9	3709.6	3683.1	3661.5	3653.2	3646.6	3636.7	3630.0	3635.0
12.5°	3787.6	3807.5	3782.6	3746.1	3717.9	3712.9	3704.7	3701.3	3699.7	3698.0
15°	3862.2	3878.8	3847.3	3804.2	3774.3	3766.0	3757.7	3762.7	3771.0	3780.9
17.5°	3920.2	3936.8	3890.4	3834.0	3805.8	3802.5	3797.5	3814.1	3837.3	3862.2
20°	3973.3	3989.9	3930.2	3853.9	3820.7	3820.7	3822.4	3857.2	3890.4	3926.9
22.5°	4047.9	4061.2	3988.2	3883.8	3835.7	3839.0	3852.2	3887.1	3928.5	3978.3
25°	4159.0	4169.0	4079.4	3940.1	3885.4	3895.4	3907.0	3923.6	3963.4	4021.4
27.5°	4338.1	4346.4	4228.7	4039.6	3956.7	3973.3	3989.9	3978.3	3996.5	4046.3
30°	4590.2	4595.2	4445.9	4195.5	4077.8	4086.1	4089.4	4041.3	4006.5	4046.3
32.5°	4888.7	4887.0	4709.6	4384.6	4215.4	4207.1	4178.9	4084.4	4003.2	4038.0
35°	5351.4	5333.1	5104.3	4649.9	4371.3	4319.9	4253.6	4132.5	4019.7	4029.7
37.5°	6117.5	6061.1	5744.4	5084.4	4603.5	4472.5	4374.6	4210.4	4056.2	4026.4
40°	6981.5	6910.2	6561.9	5679.7	4951.7	4741.1	4583.6	4321.5	4115.9	4041.3
42.5°	8006.3	7905.1	7530.4	6381.2	5392.8	5087.7	4850.5	4462.5	4203.8	4089.4
45°	9265.0	9130.6	8600.0	7172.2	5948.3	5542.1	5225.3	4676.4	4338.1	4182.2
47.5°	10536.9	10570.0	9815.5	8077.6	6615.0	6102.6	5694.6	4998.1	4533.8	4331.5
50°	11888.4	11911.6	11024.4	9080.9	7371.2	6736.0	6222.0	5358.0	4805.8	4543.8
52.5°	12943.1	12946.4	12122.2	10130.6	8158.9	7432.5	6790.8	5769.2	5120.9	4825.7
55°	13603.1	13594.8	12891.7	11123.9	9064.3	8163.8	7420.9	6236.9	5505.6	5157.3
57.5°	14082.3	14057.5	13422.3	11977.9	10029.4	9027.8	8134.0	6767.5	5960.0	5552.0
60°	14264.8	14249.8	13782.2	12715.9	11044.3	9983.0	8956.5	7361.2	6475.7	6018.0
62.5°	14334.4	14362.6	14135.4	13430.6	12130.5	11041.0	9860.3	8071.0	7056.1	6545.3
65°	14579.8	14631.2	14584.8	14365.9	13357.7	12279.8	11059.2	8915.1	7689.6	7110.8
67.5°	15065.7	15117.1	15137.0	15485.3	14856.8	13823.6	12555.0	9966.4	8430.8	7697.9
70°	15054.1	15039.2	15390.7	16375.8	16734.0	15961.2	14571.5	11259.9	9314.7	8185.4
72.5°	13702.6	13583.2	14414.0	16365.8	18296.1	18193.3	17034.1	12928.2	10077.5	8245.1
75°	10279.8	9961.4	11429.0	14749.0	18556.4	19460.2	18599.6	13962.9	9896.8	7284.9
77.5°	4396.2	4076.1	5805.7	10918.3	16607.9	18191.6	17163.5	12181.9	7900.2	4817.4
80°	1150.9	1149.2	1754.5	4950.0	11294.7	13433.9	11785.6	7867.0	4513.9	1721.3
82.5°	475.9	464.3	645.1	1925.3	5518.8	7538.7	6152.3	3509.0	1630.1	466.0
85°	177.4	175.8	313.4	665.0	1946.9	3109.3	2250.3	897.1	406.3	227.2
87.5°	49.7	48.1	68.0	230.5	474.3	719.7	384.7	147.6	114.4	89.5
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°
3575.3	0°	3575.3	3575.3	3575.3	3575.3	3575.3	3575.3	3575.3	3575.3	3575.3	3575.3
3581.9	2.5°	3586.9	3595.2	3610.1	3621.7	3636.7	3653.2	3676.5	3691.4	3706.3	3716.3
3590.2	5°	3601.8	3620.1	3658.2	3696.4	3741.1	3782.6	3830.7	3865.5	3893.7	3902.0
3620.1	7.5°	3635.0	3664.9	3729.5	3794.2	3865.5	3933.5	4003.2	4062.9	4110.9	4129.2
3673.1	10°	3693.0	3732.8	3824.1	3915.3	4009.8	4114.3	4203.8	4290.0	4358.0	4386.2
3736.2	12.5°	3766.0	3815.8	3935.2	4061.2	4192.2	4336.5	4452.6	4558.7	4643.3	4681.4
3824.1	15°	3860.5	3925.2	4077.8	4246.9	4439.3	4639.9	4787.5	4905.3	4999.8	5046.2
3915.3	17.5°	3963.4	4049.6	4241.9	4497.3	4772.6	5036.3	5208.7	5295.0	5392.8	5437.6
3999.8	20°	4062.9	4169.0	4444.3	4815.7	5182.2	5462.5	5601.8	5625.0	5631.6	5636.6
4079.4	22.5°	4165.7	4308.3	4698.0	5217.0	5610.1	5804.1	5824.0	5724.5	5585.2	5520.5
4157.4	25°	4278.4	4467.5	5029.6	5659.8	5978.2	6001.4	5848.8	5606.7	5343.1	5222.0
4220.4	27.5°	4387.9	4651.5	5427.6	6082.7	6243.5	6039.6	5711.2	5367.9	5049.5	4921.9
4265.2	30°	4497.3	4862.2	5867.1	6452.5	6364.6	5945.0	5494.0	5110.9	4790.8	4656.5
4305.0	32.5°	4608.4	5107.6	6372.9	6719.5	6343.0	5744.4	5223.7	4822.4	4540.4	4399.5
4339.8	35°	4734.5	5409.4	6852.1	6865.4	6198.7	5449.2	4867.1	4477.4	4232.0	4119.2
4381.2	37.5°	4898.6	5792.5	7275.0	6901.9	5946.7	5016.4	4424.4	4069.5	3867.2	3815.8
4442.6	40°	5102.6	6253.5	7598.4	6843.8	5573.6	4490.7	3940.1	3656.6	3542.1	3553.8
4525.5	42.5°	5367.9	6769.2	7825.5	6694.6	5054.5	3948.4	3515.6	3389.6	3444.3	3490.7
4649.9	45°	5712.9	7304.8	7966.5	6440.9	4467.5	3489.1	3265.2	3295.1	3336.5	3341.5
4850.5	47.5°	6154.0	7847.1	8059.4	6057.8	3868.8	3165.7	3106.0	3112.6	3104.3	3069.5
5150.7	50°	6704.5	8374.4	8142.3	5550.4	3359.7	2963.4	2883.8	2860.6	2746.2	2633.4
5550.4	52.5°	7331.4	8858.7	8177.1	4920.2	2963.4	2794.2	2664.9	2519.0	2305.0	2270.2
6052.8	55°	8027.9	9306.4	8087.6	4145.8	2630.1	2577.0	2381.3	2205.5	2182.3	2152.5
6714.5	57.5°	8860.3	9789.0	7905.1	3281.8	2288.5	2323.3	2132.6	2152.5	2111.0	2064.6
7565.2	60°	9770.7	10288.1	7585.1	2494.1	1935.2	2006.6	2067.9	2066.2	2054.6	2016.5
8462.3	62.5°	10589.9	10616.5	6954.9	1910.4	1625.1	1761.1	1928.6	1927.0	1917.0	1895.4
9399.3	65°	11077.5	10566.7	5903.6	1504.1	1369.8	1558.8	1739.6	1752.8	1754.5	1752.8
10104.1	67.5°	10991.3	9984.7	4460.8	1197.3	1159.2	1353.2	1552.2	1570.4	1583.7	1587.0
10193.6	70°	10016.2	8706.1	2908.7	955.2	971.8	1172.4	1374.7	1393.0	1404.6	1417.9
8845.4	72.5°	7807.3	6401.1	1664.9	772.8	807.6	1016.5	1199.0	1220.5	1227.1	1252.0
6155.6	75°	4757.7	3764.4	898.8	608.6	663.3	869.0	1024.8	1049.7	1061.3	1091.2
3023.1	77.5°	2261.9	1630.1	512.4	474.3	534.0	709.8	865.6	893.8	862.3	878.9
834.1	80°	764.5	605.3	323.4	361.5	407.9	553.9	693.2	721.4	655.0	651.7
276.9	82.5°	267.0	245.4	205.6	240.5	263.7	396.3	524.0	560.5	487.5	485.9
124.4	85°	104.5	99.5	114.4	131.0	157.5	243.8	344.9	363.2	300.2	242.1
36.5	87.5°	21.6	23.2	28.2	29.8	48.1	84.6	124.4	152.6	121.1	102.8
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°  
3575.3  
3709.6  
3905.3  
4130.8  
4387.9  
4681.4  
5042.9  
5435.9  
5649.9  
5538.7  
5240.2  
4936.8  
4671.4  
4417.7  
4144.1  
3852.2  
3593.6  
3533.9  
3374.7  
3096.1  
2648.3  
2281.8  
2157.5  
2056.3  
2003.2  
1887.2  
1752.8  
1590.3  
1424.5  
1262.0  
*1094.5*  
865.6  
645.1  
462.7  
238.8  
94.5  
0.0

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