

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: P954989

Luminaire Tested: **GALN-SB8A-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954989  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
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-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

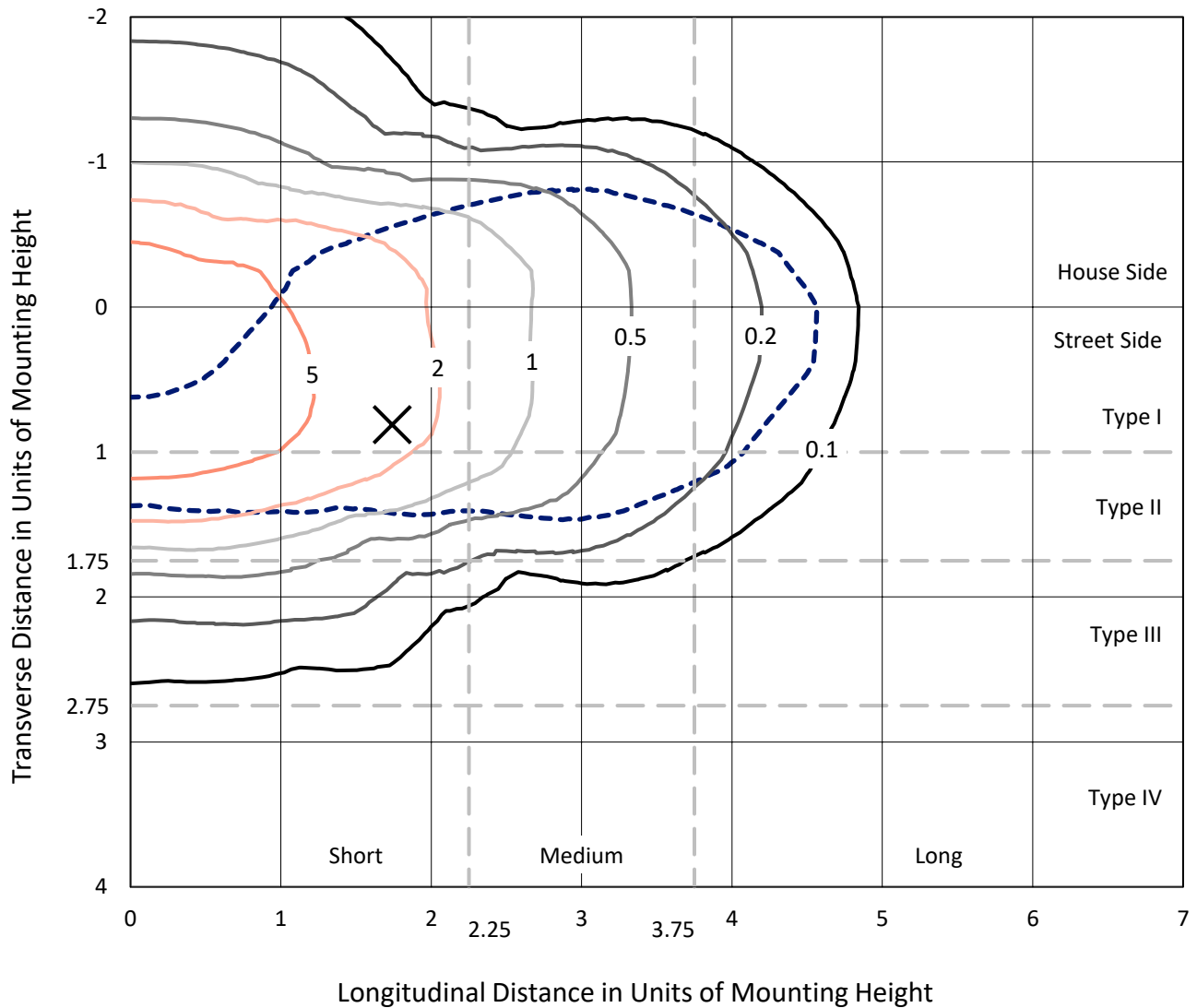
Lumens per Lamp: N/A  
Luminaire Lumens: 31964 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

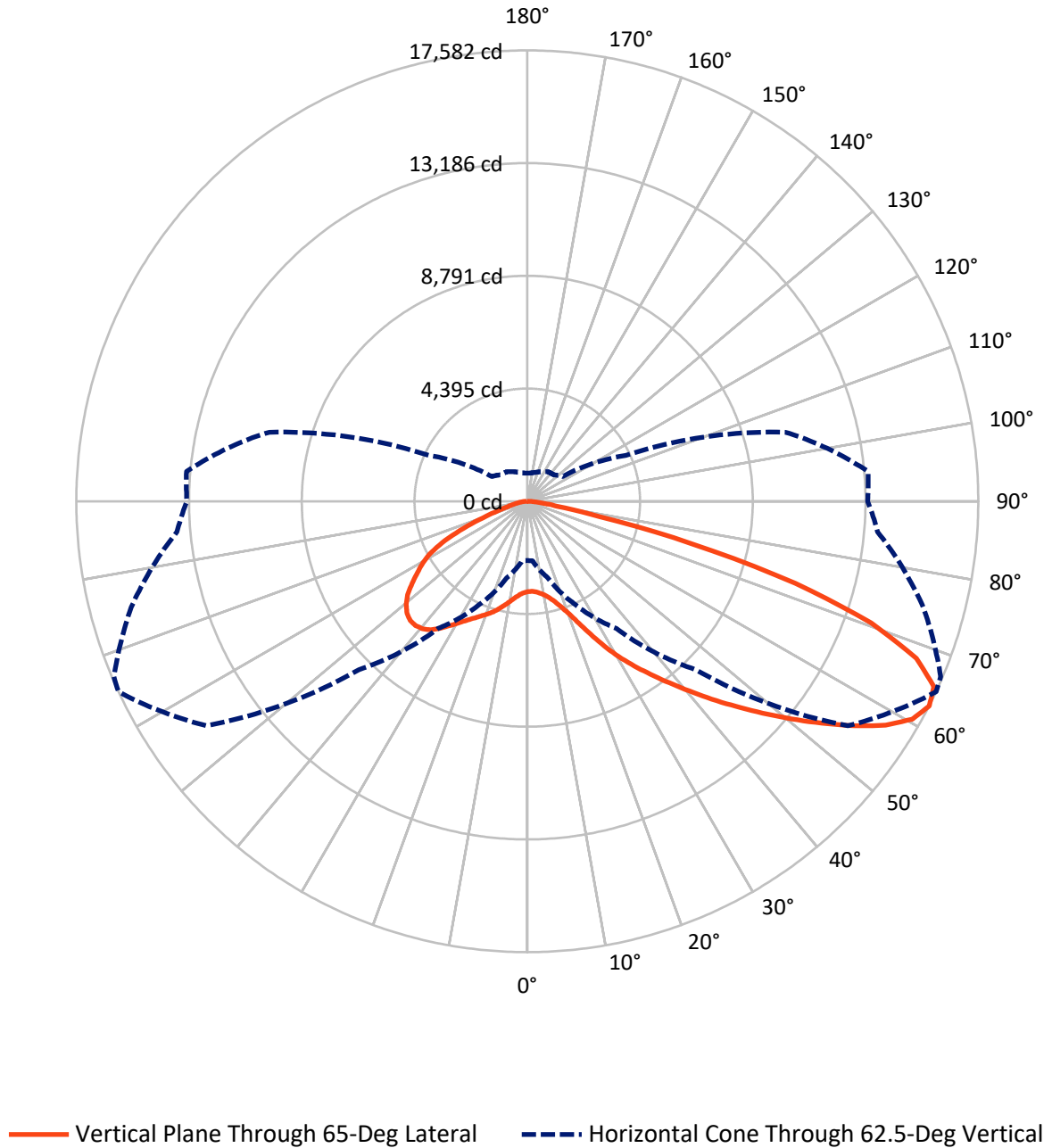
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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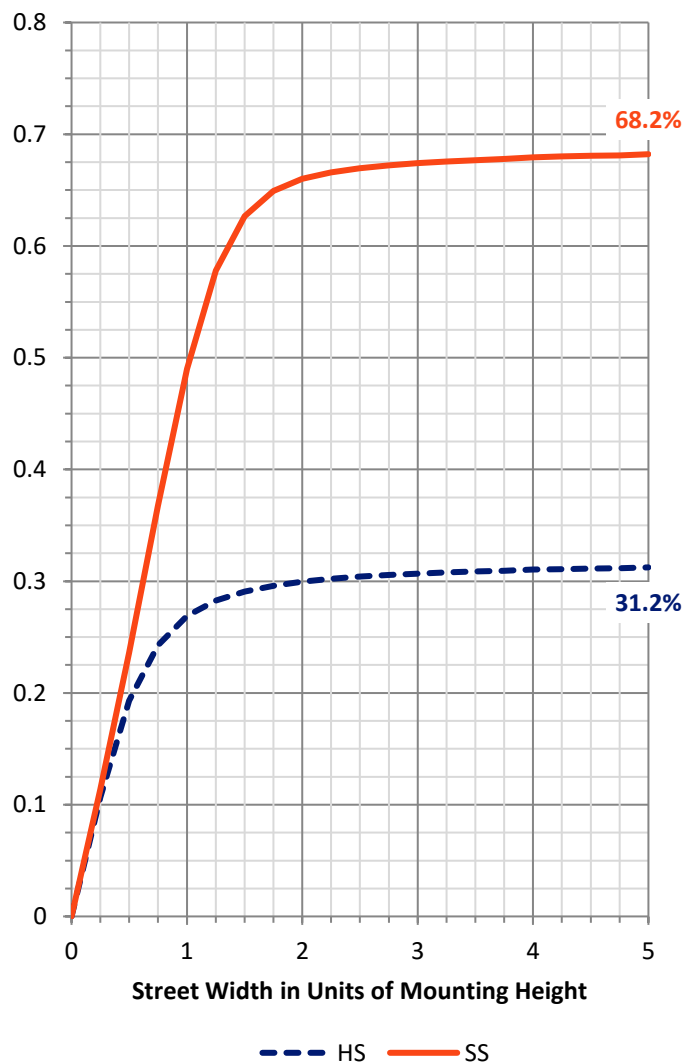
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10086.4	0.0	10086.4
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	21877.5	0.0	21877.5
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	31964.0	0.0	31964.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.2	1.1
10°-20°	1190.8	3.7
20°-30°	2414.6	7.6
30°-40°	4178.4	13.1
40°-50°	6323.2	19.8
50°-60°	7413.5	23.2
60°-70°	6215.3	19.4
70°-80°	3431.4	10.7
80°-90°	445.7	1.4
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°	31964.0	100.0
0°-180°	31964.0	100.0

**Coefficient of Utilization**

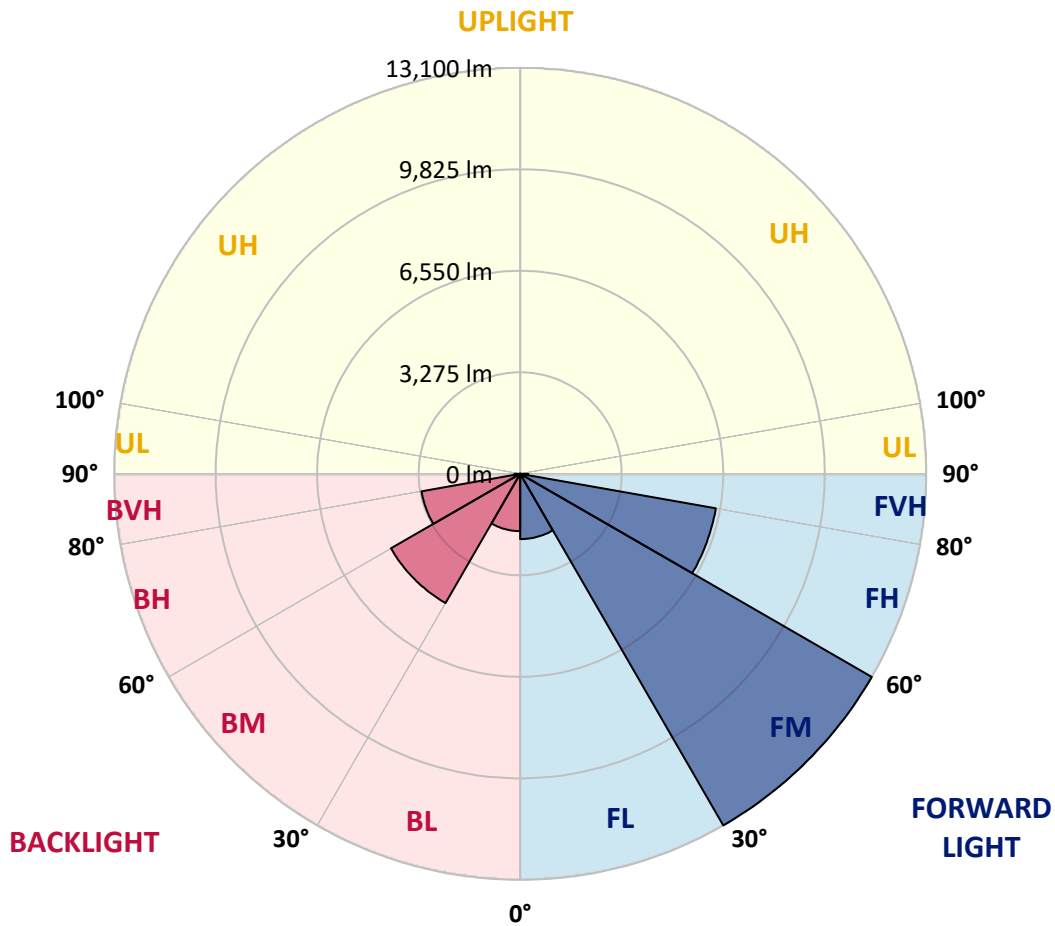


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2106.9	6.6			
FM (30°-60°)	13099.9	41.0			
FH (60°-80°)	6411.0	20.1			G3/7500
FVH (80°-90°)	259.8	0.8			G3/500
BL (0°-30°)	1849.7	5.8	B3/2500		
BM (30°-60°)	4815.1	15.1	B3/5000		
BH (60°-80°)	3235.6	10.1	B4/5000		G4/5000
BVH (80°-90°)	185.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3
2.5°	3499.1	3489.1	3497.4	3497.4	3500.7	3499.1	3510.7	3514.0	3519.0	3528.9
5°	3464.3	3462.6	3477.5	3490.8	3504.1	3515.7	3530.6	3552.1	3555.5	3567.1
7.5°	3452.6	3442.7	3465.9	3482.5	3514.0	3542.2	3582.0	3618.5	3633.4	3638.4
10°	3542.2	3525.6	3547.2	3557.1	3583.7	3611.8	3658.3	3716.3	3732.9	3752.8
12.5°	3694.8	3676.5	3708.0	3723.0	3747.8	3772.7	3804.2	3860.6	3868.9	3905.4
15°	3903.7	3882.2	3902.1	3920.3	3961.8	3985.0	4016.5	4071.2	4071.2	4099.4
17.5°	4187.3	4159.1	4174.0	4180.7	4207.2	4242.0	4295.1	4343.2	4368.0	4358.1
20°	4610.2	4575.3	4575.3	4542.2	4532.2	4560.4	4630.1	4696.4	4722.9	4671.5
22.5°	5245.3	5195.5	5167.4	5054.6	5009.8	5013.1	5082.8	5164.0	5185.6	5094.4
25°	6052.9	5975.0	5936.8	5771.0	5669.8	5581.9	5636.7	5741.1	5771.0	5658.2
27.5°	6860.5	6865.5	6829.0	6630.0	6462.5	6301.7	6273.5	6382.9	6414.4	6286.7
30°	7993.2	7875.4	7805.8	7567.0	7328.2	7102.6	6986.5	7031.3	7039.6	6887.0
32.5°	8969.9	8940.1	8790.8	8581.9	8275.1	7921.8	7727.8	7656.5	7643.2	7426.0
35°	10082.7	10066.1	9908.5	9659.8	9328.1	8837.2	8487.3	8283.4	8266.8	7961.6
37.5°	11213.6	11213.6	11059.4	10787.4	10444.2	9830.6	9298.3	8974.9	8921.8	8523.8
40°	12115.8	12061.0	12089.2	11974.8	11581.8	10930.1	10198.7	9729.4	9658.1	9180.5
42.5°	12628.2	12609.9	12779.1	12906.8	12745.9	12225.2	11190.4	10547.0	10447.5	9903.6
45°	12742.6	12722.7	13024.5	13492.2	13717.7	13503.8	12268.3	11407.7	11286.6	10659.7
47.5°	12478.9	12439.1	12881.9	13619.9	14342.9	14719.3	13435.8	12341.3	12165.5	11396.0
50°	11686.3	11648.1	12318.1	13298.2	14553.5	15545.2	14702.8	13331.3	13062.7	12185.4
52.5°	9963.3	9981.5	11031.2	12377.8	14276.6	16059.3	15793.9	14374.4	14051.0	12993.0
55°	7761.0	7800.8	9091.0	10573.5	13168.8	15981.3	16538.5	15449.0	15127.3	13752.5
57.5°	5557.1	5732.8	6941.8	8409.4	11041.2	14745.9	16701.0	16470.5	16158.8	14581.7
60°	3601.9	3633.4	4877.2	6356.4	8407.7	12550.2	16371.0	17245.0	17001.2	15427.4
62.5°	2308.4	2330.0	3087.8	4446.0	6051.2	9285.0	15260.0	17581.6	17507.0	15986.3
65°	1696.5	1679.9	2074.6	2938.6	4076.2	5726.2	13102.5	17419.1	17566.7	16336.2
67.5°	1416.2	1393.0	1587.0	2034.8	3003.2	3252.0	9694.6	16362.7	16903.4	16296.4
70°	1290.2	1270.3	1388.0	1510.7	2343.2	2177.4	4887.1	14225.2	15057.6	15843.7
72.5°	1092.8	1058.0	1218.9	1341.6	1822.5	1669.9	2019.8	10926.7	11941.6	14392.7
75°	847.4	824.2	961.8	1180.7	1369.8	1303.4	1276.9	6635.0	7742.7	11130.7
77.5°	671.6	640.1	766.1	920.4	1232.1	983.4	930.3	2857.3	3955.1	7105.9
80°	505.8	477.6	582.1	728.0	946.9	741.3	602.0	1165.8	1490.8	3600.2
82.5°	359.9	335.0	406.3	534.0	636.8	665.0	369.8	653.4	734.6	1388.0
85°	230.5	215.6	272.0	335.0	404.6	427.8	225.5	341.6	374.8	572.1
87.5°	126.0	102.8	145.9	155.9	187.4	170.8	107.8	124.4	134.3	207.3
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°
3522.3	0°	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3
3528.9	2.5°	3535.6	3540.5	3557.1	3562.1	3573.7	3588.6	3598.6	3608.5	3608.5	3618.5
3582.0	5°	3583.7	3595.3	3630.1	3648.3	3678.2	3708.0	3726.3	3747.8	3761.1	3767.7
3666.6	7.5°	3676.5	3694.8	3744.5	3776.0	3827.4	3868.9	3897.1	3926.9	3933.6	3951.8
3784.3	10°	3802.6	3824.1	3880.5	3940.2	4001.6	4053.0	4079.5	4101.1	4109.3	4112.7
3935.2	12.5°	3946.8	3978.3	4051.3	4124.3	4188.9	4233.7	4240.4	4235.4	4212.2	4192.3
4121.0	15°	4124.3	4152.5	4233.7	4313.3	4376.3	4384.6	4343.2	4316.6	4288.4	4283.5
4328.2	17.5°	4336.5	4351.5	4426.1	4504.0	4509.0	4480.8	4419.5	4394.6	4368.0	4349.8
4598.6	20°	4583.6	4578.7	4631.7	4664.9	4630.1	4543.8	4451.0	4409.5	4383.0	4361.4
4930.2	22.5°	4878.8	4840.7	4834.0	4825.7	4732.9	4552.1	4426.1	4373.0	4331.6	4301.7
5392.9	25°	5308.3	5162.4	5061.2	5004.8	4795.9	4507.3	4346.5	4228.7	4150.8	4099.4
5958.4	27.5°	5845.6	5600.2	5344.8	5207.2	4795.9	4416.1	4154.1	3963.4	3835.7	3782.7
6505.6	30°	6358.0	6101.0	5724.6	5450.9	4784.3	4266.9	3844.0	3578.7	3429.4	3376.4
6973.3	32.5°	6795.8	6515.6	6127.5	5717.9	4756.1	4024.8	3459.3	3165.8	3021.5	2958.5
7436.0	35°	7202.1	6903.6	6532.2	6011.4	4681.5	3669.9	3036.4	2812.5	2651.7	2550.5
7906.9	37.5°	7618.4	7263.5	6915.2	6276.8	4547.1	3255.3	2711.4	2520.7	2331.6	2195.6
8407.7	40°	8071.1	7646.6	7324.8	6434.3	4326.6	2860.6	2459.3	2285.2	2084.5	1940.2
8984.8	42.5°	8600.1	8105.9	7780.9	6515.6	4024.8	2580.4	2295.1	2124.3	1935.3	1817.5
9603.4	45°	9152.3	8611.7	8197.1	6513.9	3688.1	2449.4	2242.1	2072.9	1864.0	1741.2
10238.5	47.5°	9731.1	9140.7	8557.0	6407.8	3396.3	2467.6	2212.2	1961.8	1731.3	1611.9
10880.3	50°	10311.5	9719.5	8905.2	6208.8	3271.9	2427.8	2101.1	1805.9	1534.0	1426.2
11482.3	52.5°	10886.9	10334.7	9205.4	5925.2	3145.9	2280.2	1958.5	1603.6	1452.7	1378.1
12104.2	55°	11465.7	10943.3	9532.1	5512.3	2830.8	2107.7	1719.7	1527.3	1388.0	1320.0
12712.8	57.5°	12046.1	11646.5	9842.2	5099.4	2434.4	1895.5	1588.7	1434.5	1323.3	1265.3
13221.9	60°	12649.7	12450.7	10162.2	4719.6	2043.1	1623.5	1492.5	1359.8	1247.1	1182.4
13711.1	62.5°	13271.6	13336.3	10412.7	4230.4	1683.2	1457.7	1406.3	1270.3	1160.8	1099.5
14115.7	65°	13898.5	14190.3	10576.8	3552.1	1364.8	1300.1	1313.4	1172.4	1061.3	1008.3
14412.6	67.5°	14371.1	14805.6	10530.4	2688.2	1119.4	1150.9	1197.3	1069.6	965.1	923.7
14364.5	70°	14424.2	14732.6	10072.7	1840.7	937.0	1004.9	1068.0	968.5	860.7	830.8
13687.9	72.5°	13717.7	13737.6	8797.4	1202.3	792.7	882.2	932.0	865.6	761.2	731.3
11974.8	75°	11865.4	11361.2	6459.2	792.7	663.3	757.9	804.3	757.9	656.7	663.3
8960.0	77.5°	8989.8	8046.2	3922.0	563.8	553.9	636.8	699.8	666.6	580.4	651.7
4505.7	80°	4631.7	4353.1	1749.5	421.2	437.8	509.1	575.4	532.3	459.4	437.8
1006.6	82.5°	1061.3	1233.8	689.9	301.8	316.7	366.5	439.5	399.7	330.0	278.6
419.6	85°	371.5	406.3	305.1	189.0	185.7	228.8	298.5	267.0	223.9	179.1
177.4	87.5°	117.7	154.2	114.4	76.3	79.6	102.8	137.6	126.0	104.5	68.0
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>
3522.3
3618.5
3771.0
3945.2
4104.4
4192.3
4283.5
4351.5
4363.1
4311.7
4119.3
3809.2
3407.9
2990.0
2583.7
2232.1
1968.4
1840.7
1761.1
1628.5
1432.8
1378.1
1313.4
1255.4
1177.4
1097.8
1006.6
925.3
832.5
729.7
640.1
573.8
399.7
275.3
189.0
71.3
0.0

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