

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: P952490

Luminaire Tested: **GALN-SB6B-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952490  
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-SB6B-827-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

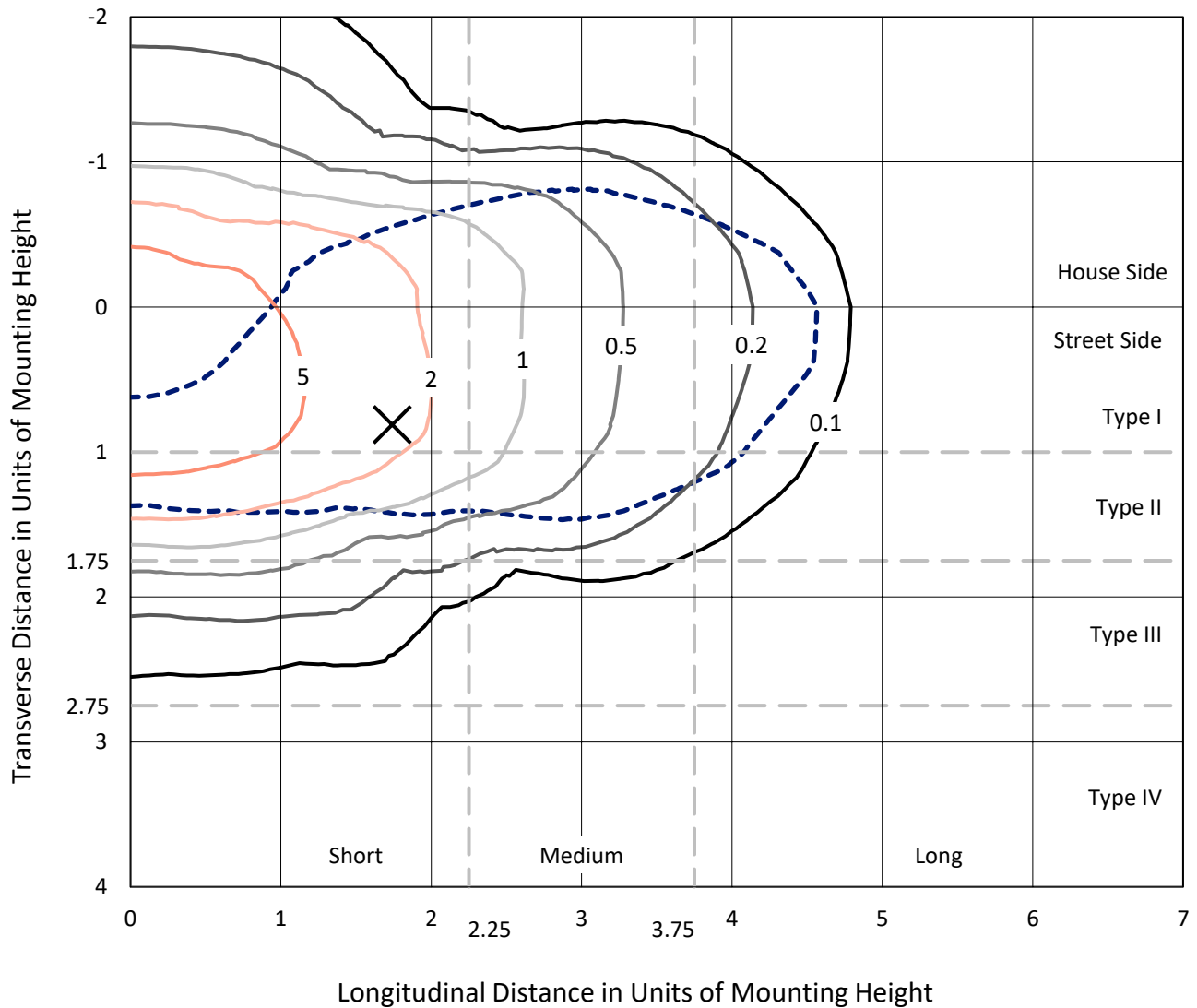
Lumens per Lamp: N/A  
Luminaire Lumens: 30091 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

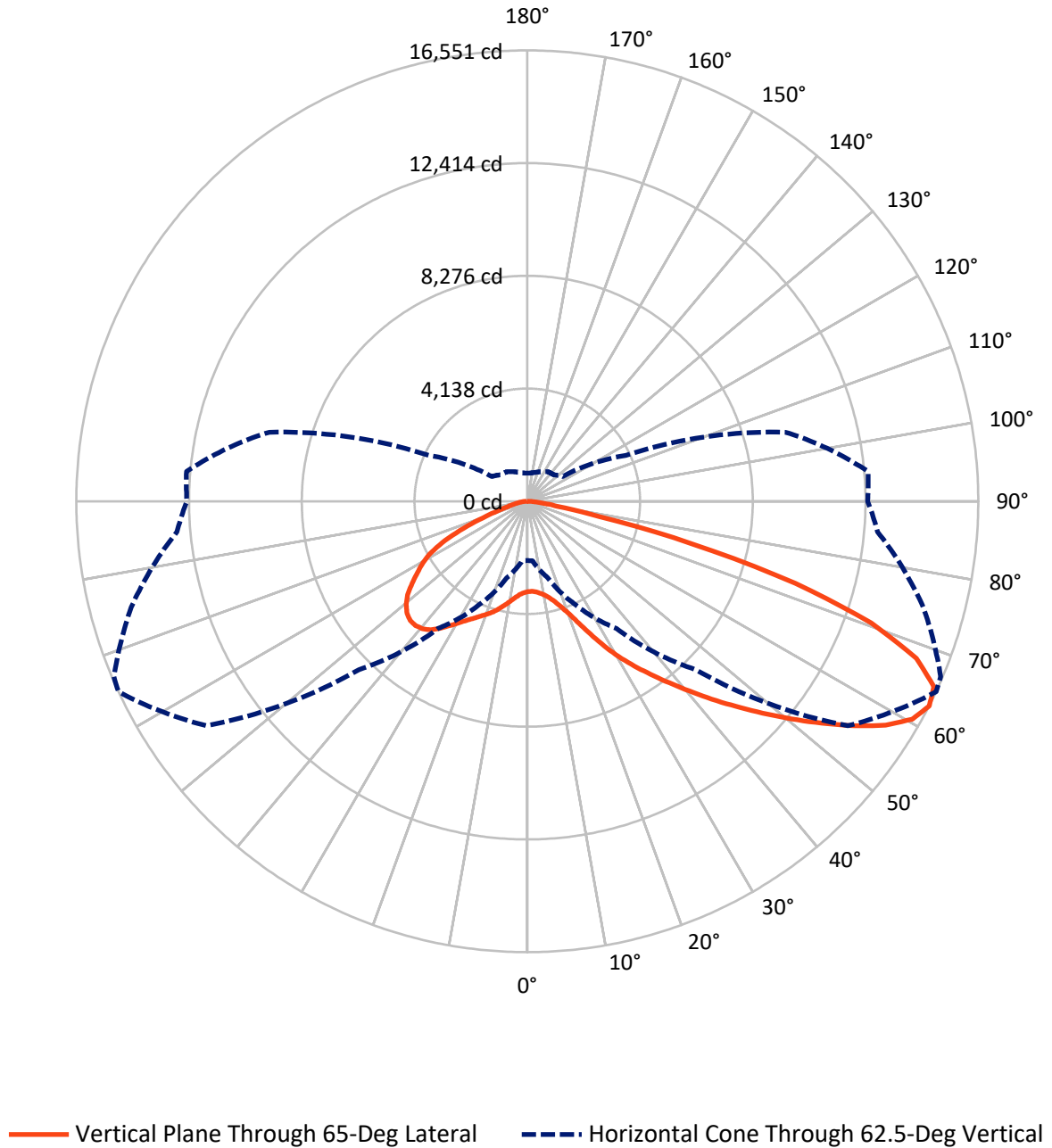
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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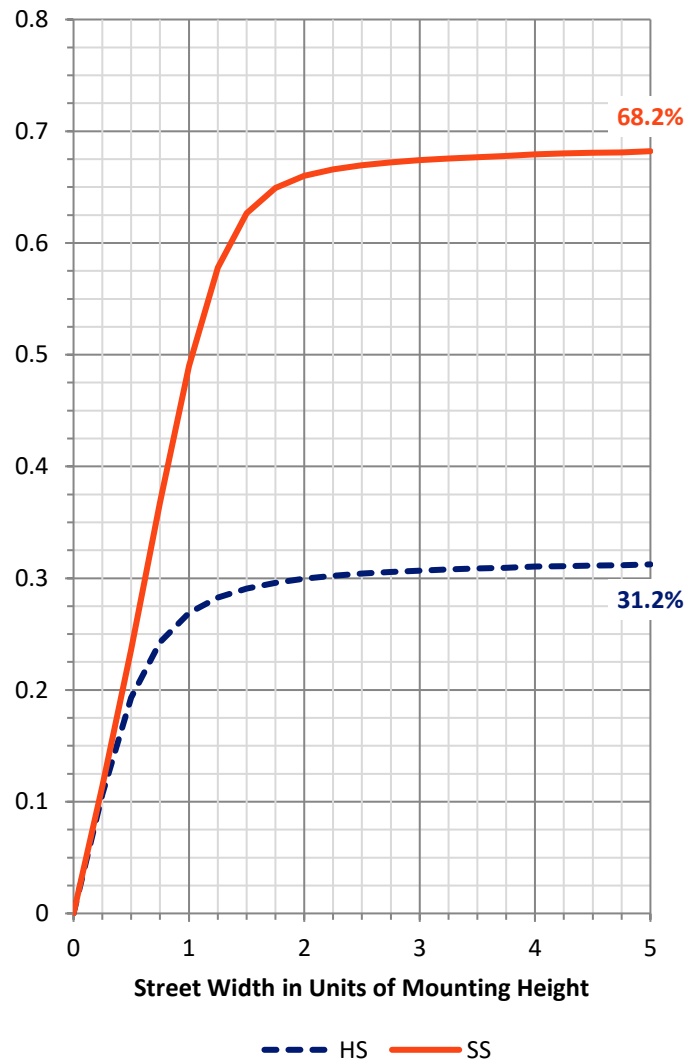
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9495.4	0.0	9495.4
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	20595.6	0.0	20595.6
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	30091.0	0.0	30091.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.6	1.1
10°-20°	1121.1	3.7
20°-30°	2273.1	7.6
30°-40°	3933.5	13.1
40°-50°	5952.6	19.8
50°-60°	6979.1	23.2
60°-70°	5851.1	19.4
70°-80°	3230.3	10.7
80°-90°	419.6	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°	30091.0	100.0
0°-180°	30091.0	100.0



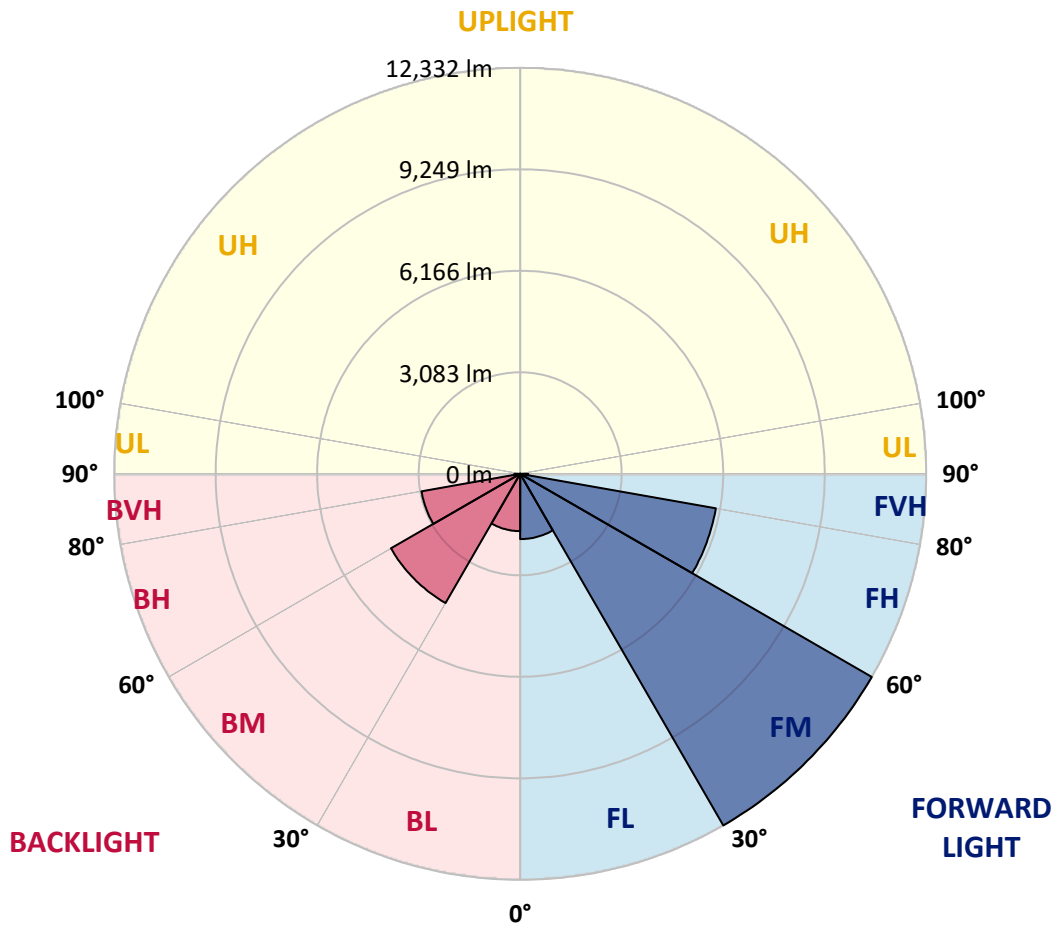
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1983.4	6.6			
FM (30°-60°)	12332.3	41.0			
FH (60°-80°)	6035.4	20.1			G3/7500
FVH (80°-90°)	244.6	0.8			G3/500
BL (0°-30°)	1741.3	5.8	B3/2500		
BM (30°-60°)	4533.0	15.1	B3/5000		
BH (60°-80°)	3046.0	10.1	B4/5000		G4/5000
BVH (80°-90°)	175.0	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°	3315.9	3315.9	3315.9	3315.9	3315.9	3315.9	3315.9	3315.9	3315.9	3315.9
2.5°	3294.0	3284.7	3292.5	3292.5	3295.6	3294.0	3305.0	3308.1	3312.8	3322.1
5°	3261.3	3259.7	3273.7	3286.2	3298.7	3309.7	3323.7	3344.0	3347.1	3358.0
7.5°	3250.3	3241.0	3262.8	3278.4	3308.1	3334.6	3372.1	3406.4	3420.5	3425.2
10°	3334.6	3319.0	3339.3	3348.7	3373.7	3400.2	3443.9	3498.6	3514.2	3532.9
12.5°	3478.3	3461.1	3490.7	3504.8	3528.2	3551.6	3581.3	3634.4	3642.2	3676.5
15°	3675.0	3654.7	3673.4	3690.6	3729.6	3751.5	3781.1	3832.6	3832.6	3859.2
17.5°	3941.9	3915.4	3929.4	3935.7	3960.7	3993.4	4043.4	4088.7	4112.1	4102.7
20°	4340.0	4307.2	4307.2	4276.0	4266.6	4293.2	4358.8	4421.2	4446.2	4397.8
22.5°	4937.9	4891.1	4864.6	4758.4	4716.3	4719.4	4784.9	4861.4	4881.7	4795.9
25°	5698.2	5624.8	5588.9	5432.8	5337.6	5254.9	5306.4	5404.7	5432.8	5326.7
27.5°	6458.5	6463.2	6428.8	6241.5	6083.8	5932.4	5905.9	6008.9	6038.6	5918.3
30°	7524.8	7413.9	7348.4	7123.6	6898.8	6686.4	6577.2	6619.3	6627.1	6483.5
32.5°	8444.3	8416.2	8275.7	8079.0	7790.2	7457.6	7275.0	7207.9	7195.4	6990.9
35°	9491.8	9476.2	9327.9	9093.7	8781.5	8319.4	7990.0	7798.0	7782.4	7495.1
37.5°	10556.5	10556.5	10411.4	10155.3	9832.2	9254.5	8753.4	8449.0	8399.0	8024.3
40°	11405.8	11354.3	11380.8	11273.1	10903.1	10289.6	9601.1	9159.3	9092.2	8642.6
42.5°	11888.2	11871.0	12030.3	12150.5	11999.1	11508.9	10534.7	9929.0	9835.3	9323.2
45°	11995.9	11977.2	12261.3	12701.6	12913.9	12712.5	11549.4	10739.2	10625.2	10035.1
47.5°	11747.7	11710.2	12127.1	12821.8	13502.4	13856.8	12648.5	11618.1	11452.6	10728.3
50°	11001.5	10965.6	11596.3	12518.9	13700.7	14634.3	13841.2	12550.1	12297.2	11471.4
52.5°	9379.4	9396.6	10384.8	11652.5	13440.0	15118.2	14868.5	13532.1	13227.7	12231.7
55°	7306.2	7343.7	8558.3	9953.9	12397.1	15044.9	15569.4	14543.7	14240.9	12946.7
57.5°	5231.4	5396.9	6535.0	7916.6	10394.2	13881.8	15722.4	15505.4	15211.9	13727.3
60°	3390.8	3420.5	4591.4	5983.9	7915.1	11814.8	15411.7	16234.5	16005.0	14523.4
62.5°	2173.1	2193.4	2906.9	4185.5	5696.7	8740.9	14365.8	16551.4	16481.1	15049.6
65°	1597.1	1581.5	1953.0	2766.4	3837.3	5390.7	12334.7	16398.4	16537.3	15379.0
67.5°	1333.2	1311.4	1494.0	1915.5	2827.3	3061.4	9126.5	15403.9	15912.9	15341.5
70°	1214.6	1195.8	1306.7	1422.2	2205.9	2049.8	4600.7	13391.6	14175.3	14915.3
72.5°	1028.8	996.0	1147.5	1263.0	1715.7	1572.1	1901.5	10286.5	11241.9	13549.3
75°	797.8	775.9	905.5	1111.5	1289.5	1227.1	1202.1	6246.2	7289.0	10478.5
77.5°	632.3	602.6	721.3	866.4	1159.9	925.8	875.8	2689.9	3723.4	6689.6
80°	476.2	449.6	548.0	685.3	891.4	697.8	566.7	1097.5	1403.5	3389.3
82.5°	338.8	315.4	382.5	502.7	599.5	626.0	348.1	615.1	691.6	1306.7
85°	217.0	203.0	256.0	315.4	380.9	402.8	212.3	321.6	352.8	538.6
87.5°	118.6	96.8	137.4	146.7	176.4	160.8	101.5	117.1	126.5	195.1
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°
3315.9	0°	3315.9	3315.9	3315.9	3315.9	3315.9	3315.9	3315.9	3315.9	3315.9	3315.9
3322.1	2.5°	3328.4	3333.1	3348.7	3353.4	3364.3	3378.3	3387.7	3397.1	3397.1	3406.4
3372.1	5°	3373.7	3384.6	3417.4	3434.5	3462.6	3490.7	3507.9	3528.2	3540.7	3546.9
3451.7	7.5°	3461.1	3478.3	3525.1	3554.8	3603.2	3642.2	3668.7	3696.8	3703.1	3720.2
3562.6	10°	3579.7	3600.0	3653.1	3709.3	3767.1	3815.5	3840.4	3860.7	3868.5	3871.7
3704.6	12.5°	3715.6	3745.2	3813.9	3882.6	3943.5	3985.6	3991.9	3987.2	3965.3	3946.6
3879.5	15°	3882.6	3909.1	3985.6	4060.6	4119.9	4127.7	4088.7	4063.7	4037.2	4032.5
4074.6	17.5°	4082.4	4096.5	4166.7	4240.1	4244.8	4218.2	4160.5	4137.1	4112.1	4094.9
4329.1	20°	4315.0	4310.4	4360.3	4391.5	4358.8	4277.6	4190.1	4151.1	4126.1	4105.8
4641.3	22.5°	4592.9	4557.0	4550.8	4543.0	4455.5	4285.4	4166.7	4116.8	4077.7	4049.6
5076.9	25°	4997.3	4859.9	4764.7	4711.6	4514.9	4243.2	4091.8	3981.0	3907.6	3859.2
5609.2	27.5°	5503.1	5272.0	5031.6	4902.0	4514.9	4157.4	3910.7	3731.2	3611.0	3561.0
6124.4	30°	5985.5	5743.5	5389.1	5131.5	4503.9	4016.9	3618.8	3369.0	3228.5	3178.5
6564.7	32.5°	6397.6	6133.8	5768.5	5382.9	4477.4	3788.9	3256.6	2980.2	2844.4	2785.1
7000.2	35°	6780.1	6499.1	6149.4	5659.2	4407.1	3454.8	2858.5	2647.7	2496.3	2401.1
7443.6	37.5°	7172.0	6837.9	6510.0	5909.0	4280.7	3064.6	2552.5	2373.0	2195.0	2067.0
7915.1	40°	7598.2	7198.5	6895.6	6057.3	4073.1	2693.0	2315.2	2151.3	1962.4	1826.6
8458.3	42.5°	8096.2	7630.9	7324.9	6133.8	3788.9	2429.2	2160.6	1999.8	1821.9	1711.0
9040.7	45°	8616.0	8107.1	7716.8	6132.2	3472.0	2305.8	2110.7	1951.4	1754.7	1639.2
9638.6	47.5°	9160.9	8605.1	8055.6	6032.3	3197.2	2323.0	2082.6	1846.8	1629.8	1517.4
10242.8	50°	9707.3	9149.9	8383.4	5845.0	3080.2	2285.5	1978.0	1700.1	1444.1	1342.6
10809.5	52.5°	10249.0	9729.1	8666.0	5578.0	2961.5	2146.6	1843.7	1509.6	1367.6	1297.3
11394.9	55°	10793.8	10302.1	8973.5	5189.3	2664.9	1984.2	1618.9	1437.8	1306.7	1242.7
11967.8	57.5°	11340.2	10964.0	9265.5	4800.6	2291.8	1784.4	1495.6	1350.4	1245.8	1191.2
12447.1	60°	11908.5	11721.2	9566.8	4443.1	1923.3	1528.4	1405.0	1280.1	1174.0	1113.1
12907.6	62.5°	12493.9	12554.8	9802.5	3982.5	1584.6	1372.3	1323.9	1195.8	1092.8	1035.0
13288.6	65°	13084.1	13358.8	9957.1	3344.0	1284.8	1223.9	1236.4	1103.7	999.1	949.2
13568.0	67.5°	13529.0	13938.0	9913.3	2530.6	1053.8	1083.4	1127.2	1006.9	908.6	869.6
13522.7	70°	13578.9	13869.3	9482.5	1732.9	882.1	946.1	1005.4	911.7	810.2	782.1
12885.8	72.5°	12913.9	12932.6	8281.9	1131.8	746.2	830.5	877.4	814.9	716.6	688.5
11273.1	75°	11170.1	10695.5	6080.7	746.2	624.5	713.4	757.2	713.4	618.2	624.5
8434.9	77.5°	8463.0	7574.7	3692.1	530.8	521.4	599.5	658.8	627.6	546.4	613.5
4241.7	80°	4360.3	4098.0	1647.0	396.5	412.1	479.3	541.7	501.1	432.4	412.1
947.6	82.5°	999.1	1161.5	649.4	284.1	298.2	345.0	413.7	376.2	310.7	262.3
395.0	85°	349.7	382.5	287.3	178.0	174.8	215.4	281.0	251.3	210.8	168.6
167.0	87.5°	110.8	145.2	107.7	71.8	74.9	96.8	129.6	118.6	98.4	64.0
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>
3315.9
3406.4
3550.1
3714.0
3863.9
3946.6
4032.5
4096.5
4107.4
4059.0
3877.9
3586.0
3208.2
2814.8
2432.3
2101.3
1853.1
1732.9
1657.9
1533.1
1348.8
1297.3
1236.4
1181.8
1108.4
1033.5
947.6
871.1
783.7
686.9
602.6
540.2
376.2
259.2
178.0
67.1
0.0

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