

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: P940667

Luminaire Tested: **GALN-SB3D-830-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3D-830-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

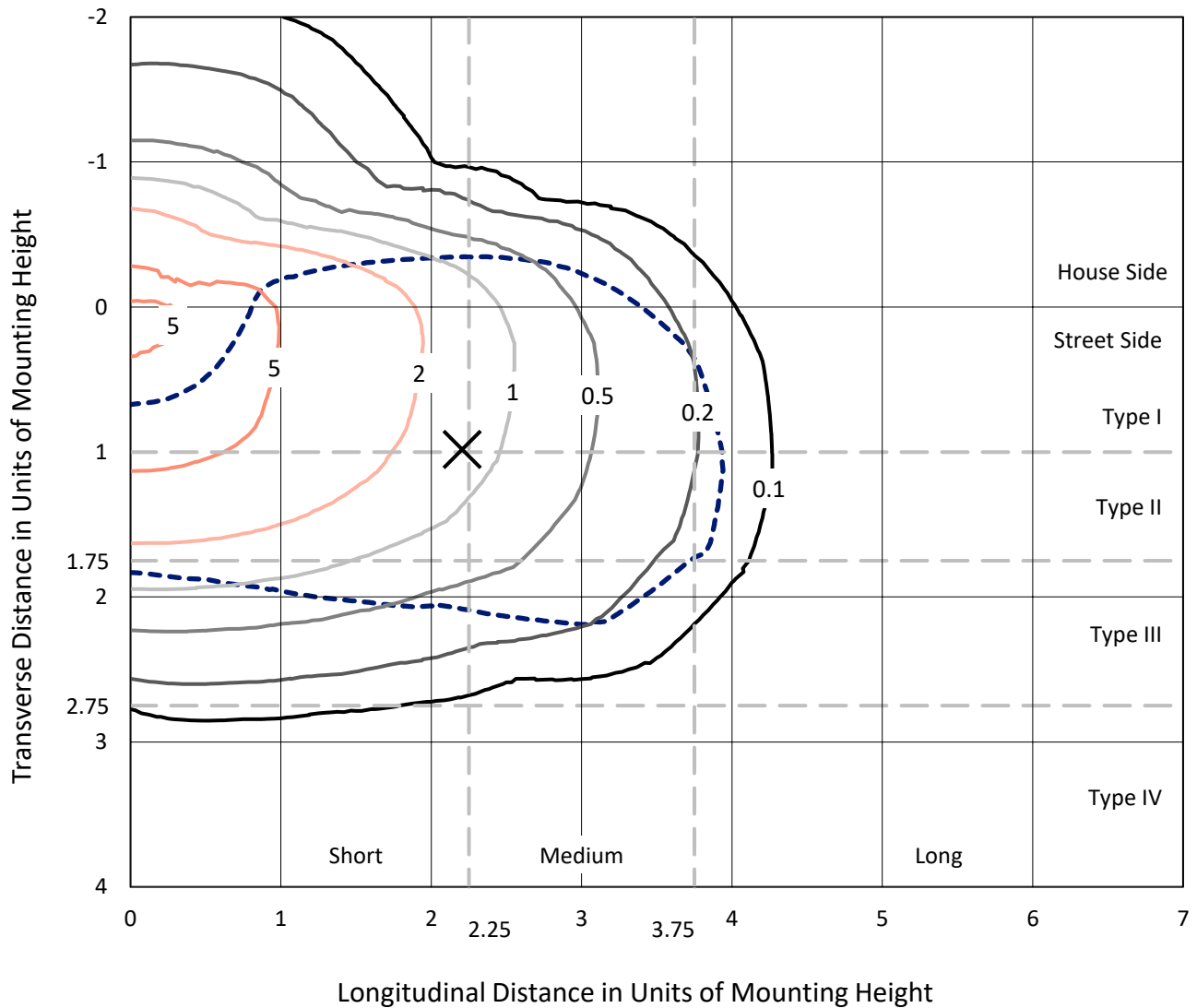
Lumens per Lamp: N/A  
Luminaire Lumens: 27453 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

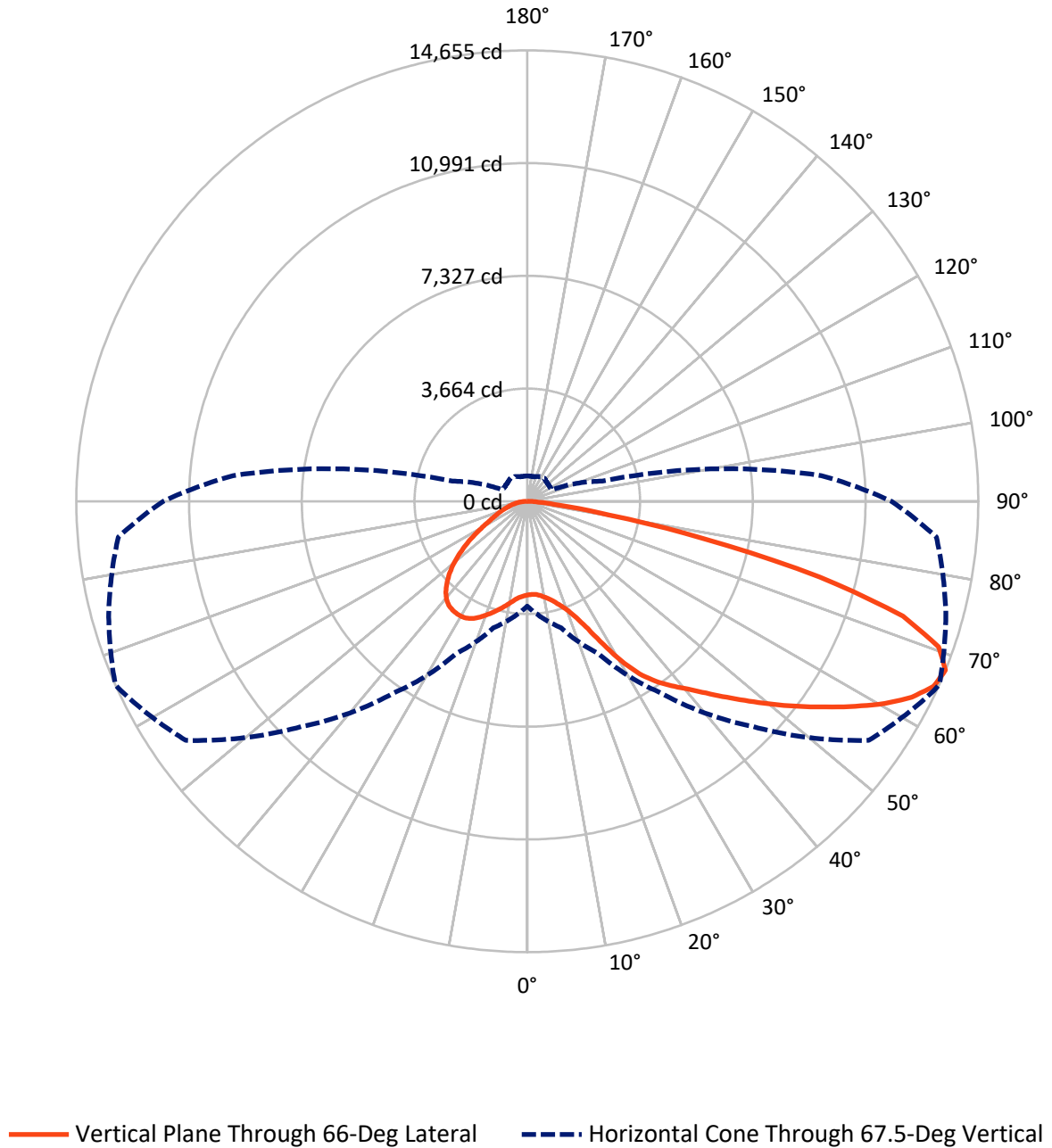
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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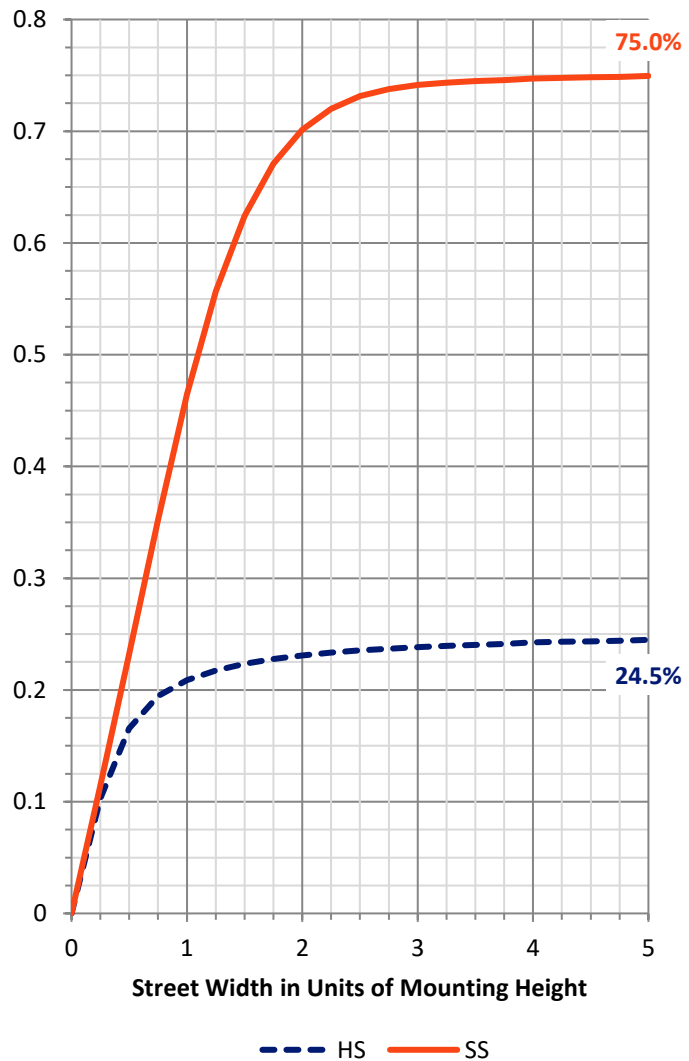
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6826.1	0.0	6826.1
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	20626.9	0.0	20626.9
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	27453.0	0.0	27453.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.9	1.1
10°-20°	997.4	3.6
20°-30°	1922.4	7.0
30°-40°	3370.8	12.3
40°-50°	5011.2	18.3
50°-60°	6352.2	23.1
60°-70°	6215.5	22.6
70°-80°	2964.8	10.8
80°-90°	316.9	1.2
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°	27453.0	100.0
0°-180°	27453.0	100.0

**Coefficient of Utilization**



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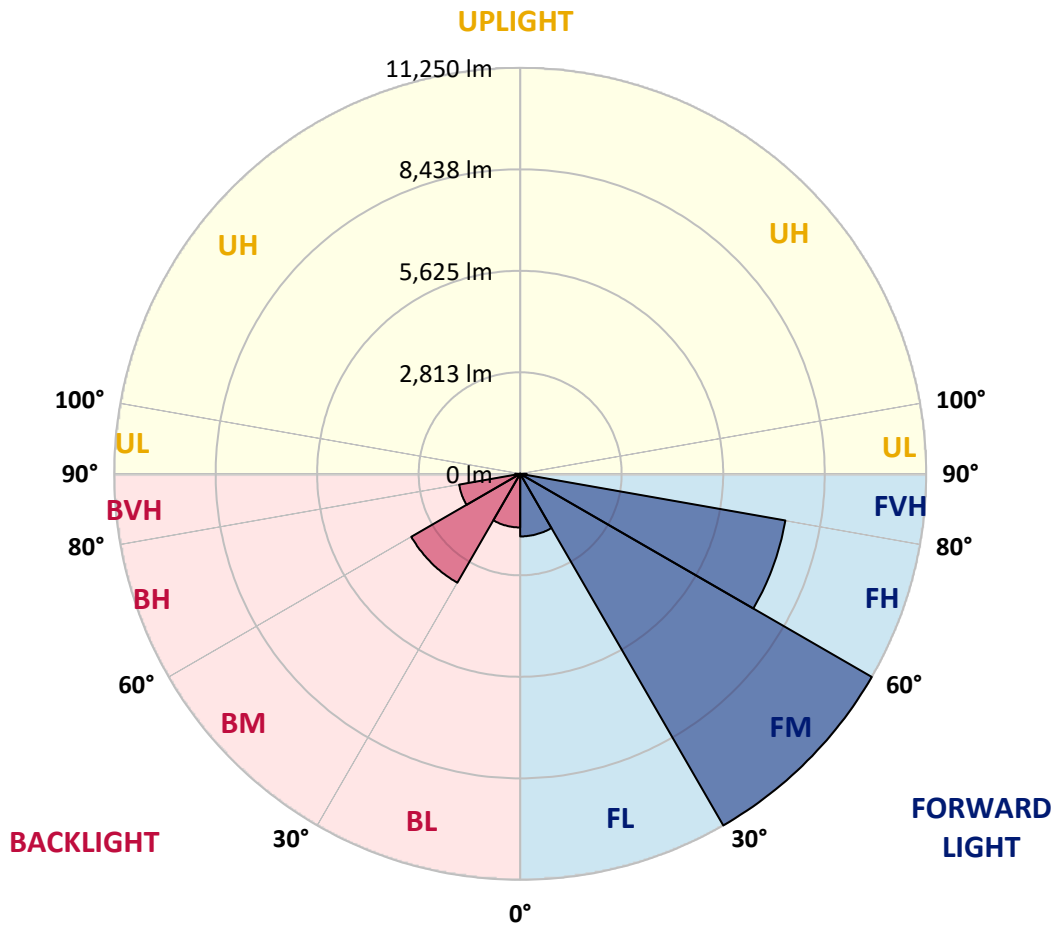
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1734.8	6.3			
FM (30°-60°)	11250.0	41.0			
FH (60°-80°)	7462.5	27.2			G3/7500
FVH (80°-90°)	179.6	0.7			G2/225
BL (0°-30°)	1487.0	5.4	B3/2500		
BM (30°-60°)	3484.1	12.7	B3/5000		
BH (60°-80°)	1717.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	137.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3044.9	3044.9	3044.9	3044.9	3044.9	3044.9	3044.9	3044.9	3044.9	3044.9
2.5°	3013.2	3030.5	3026.1	3018.9	3017.5	3020.4	3024.7	3029.0	3027.6	3034.8
5°	3004.5	3021.8	3020.4	3020.4	3026.1	3037.7	3044.9	3052.1	3044.9	3053.6
7.5°	3010.3	3023.3	3029.0	3034.8	3049.2	3070.9	3088.2	3104.0	3095.4	3105.5
10°	3083.8	3093.9	3099.7	3099.7	3109.8	3134.3	3151.6	3180.5	3173.3	3189.1
12.5°	3218.0	3228.1	3228.1	3222.3	3229.5	3245.4	3251.2	3282.9	3269.9	3295.9
15°	3382.4	3402.6	3386.7	3376.7	3379.5	3395.4	3394.0	3418.5	3405.5	3427.1
17.5°	3564.2	3590.1	3564.2	3562.7	3557.0	3574.3	3575.7	3597.3	3574.3	3590.1
20°	3779.1	3815.1	3793.5	3800.7	3787.7	3794.9	3802.2	3833.9	3797.8	3809.4
22.5°	4082.0	4125.3	4102.2	4129.6	4120.9	4115.2	4113.7	4170.0	4113.7	4118.0
25°	4523.4	4575.3	4534.9	4572.4	4572.4	4591.2	4612.8	4684.9	4591.2	4563.7
27.5°	5175.3	5227.2	5147.9	5171.0	5163.8	5209.9	5186.9	5365.7	5264.7	5220.0
30°	5960.0	6052.3	5902.3	5896.5	5889.3	5962.9	5996.0	6114.3	6011.9	5967.2
32.5°	6808.1	6904.8	6725.9	6674.0	6646.6	6691.3	6663.9	6759.1	6688.4	6619.2
35°	7705.3	7800.5	7630.3	7529.3	7419.7	7325.9	7227.9	7252.4	7186.0	7080.7
37.5°	8553.4	8727.9	8547.6	8439.5	8237.5	8054.3	7780.3	7666.3	7604.3	7507.7
40°	9417.4	9516.9	9379.9	9287.6	9068.4	8781.3	8342.8	8101.9	8018.3	7924.5
42.5°	10053.5	10148.7	10075.1	10011.7	9840.0	9506.8	8940.0	8638.5	8517.4	8412.1
45°	10558.3	10629.0	10582.9	10605.9	10532.4	10209.3	9558.8	9214.0	9088.5	8960.2
47.5°	10761.7	10836.7	10910.3	11047.3	11172.8	10934.8	10223.7	9837.1	9704.4	9573.2
50°	10738.6	10815.1	11028.6	11319.9	11709.4	11630.0	10924.7	10500.7	10378.0	10228.0
52.5°	10554.0	10640.6	10914.6	11399.3	12019.5	12150.8	11638.7	11185.8	11070.4	10891.5
55°	10069.4	10121.3	10532.4	11219.0	12093.1	12514.2	12338.3	11915.6	11800.3	11550.7
57.5°	9170.8	9245.8	9844.4	10732.9	11908.4	12760.9	12952.7	12683.0	12571.9	12212.8
60°	7998.1	8117.8	8803.0	9916.5	11438.2	12759.4	13510.9	13437.4	13345.1	12864.7
62.5°	6671.1	6809.6	7468.7	8762.6	10616.0	12397.4	13860.0	14069.1	14021.5	13466.2
65°	5123.4	5218.6	5874.9	7269.7	9336.6	11620.0	13900.4	14500.4	14509.1	13923.5
67.5°	3411.3	3685.3	4255.1	5455.1	7623.1	10349.2	13545.6	14571.1	14654.8	14080.7
70°	1664.5	2025.1	2583.3	3545.4	5455.1	8400.5	12618.1	13991.3	14177.3	13622.0
72.5°	690.9	807.7	1112.1	1749.6	3131.4	5668.6	10754.5	12419.0	12763.8	12070.0
75°	465.9	504.8	636.1	897.2	1426.5	2795.4	7755.8	9260.2	9815.5	9116.0
77.5°	359.2	383.7	463.0	627.4	848.1	1057.3	4151.2	5580.6	5867.7	5432.1
80°	282.7	301.5	346.2	457.2	601.5	565.4	1415.0	2528.5	2694.4	2260.2
82.5°	245.2	252.4	248.1	310.1	399.5	330.3	464.5	933.2	1029.9	747.2
85°	177.4	197.6	206.3	191.8	212.0	167.3	190.4	330.3	363.5	324.5
87.5°	72.1	106.7	131.3	124.0	77.9	47.6	59.1	96.6	111.1	121.2
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°
3044.9	0°	3044.9	3044.9	3044.9	3044.9	3044.9	3044.9	3044.9	3044.9	3044.9	3044.9
3046.3	2.5°	3047.8	3057.9	3065.1	3073.7	3079.5	3088.2	3105.5	3115.6	3117.0	3124.2
3069.4	5°	3075.2	3089.6	3105.5	3128.6	3154.5	3176.2	3209.3	3232.4	3241.1	3248.3
3125.7	7.5°	3134.3	3154.5	3183.4	3223.8	3261.3	3290.1	3330.5	3357.9	3385.3	3395.4
3215.1	10°	3222.3	3251.2	3293.0	3347.8	3388.2	3425.7	3467.5	3490.6	3518.0	3529.5
3321.8	12.5°	3331.9	3362.2	3417.0	3493.5	3531.0	3557.0	3571.4	3565.6	3571.4	3581.5
3450.2	15°	3457.4	3490.6	3552.6	3634.8	3660.8	3637.7	3606.0	3577.1	3572.8	3575.7
3606.0	17.5°	3606.0	3630.5	3702.6	3771.9	3753.1	3657.9	3588.7	3542.5	3519.4	3512.2
3805.0	20°	3813.7	3813.7	3872.8	3916.1	3790.6	3629.1	3520.9	3445.9	3398.3	3378.1
4076.2	22.5°	4066.1	4043.0	4080.5	4050.3	3783.4	3548.3	3398.3	3268.5	3196.4	3167.5
4455.6	25°	4386.3	4358.9	4348.8	4161.3	3731.5	3419.9	3176.2	3018.9	2955.5	2939.6
5002.2	27.5°	4869.5	4800.3	4669.0	4221.9	3636.3	3218.0	2916.5	2770.8	2734.8	2736.2
5704.7	30°	5512.8	5374.4	5052.7	4232.0	3480.5	2932.4	2651.1	2547.3	2530.0	2537.2
6294.6	32.5°	6108.6	5977.3	5445.0	4185.8	3241.1	2652.6	2413.1	2343.9	2317.9	2326.6
6744.6	35°	6575.9	6539.8	5808.5	4120.9	2946.8	2390.1	2199.7	2140.5	2090.0	2078.5
7168.7	37.5°	7017.3	7002.8	6081.1	4030.1	2655.5	2204.0	2028.0	1950.1	1876.6	1836.2
7637.5	40°	7501.9	7487.5	6260.0	3890.1	2397.3	2042.4	1873.7	1771.3	1680.4	1606.8
8168.3	42.5°	8047.1	7962.0	6345.1	3689.7	2178.0	1905.4	1748.2	1609.7	1490.0	1422.2
8768.3	45°	8642.8	8451.0	6343.7	3434.3	1993.4	1779.9	1614.0	1417.9	1306.8	1243.3
9384.2	47.5°	9274.6	8918.3	6265.8	3151.6	1814.5	1641.4	1406.3	1256.3	1182.8	1143.8
10053.5	50°	9926.6	9355.4	6133.1	2827.1	1631.4	1484.2	1276.5	1174.1	1117.9	1081.8
10717.0	52.5°	10539.6	9752.0	5973.0	2459.3	1445.3	1331.3	1218.8	1139.5	1080.4	1040.0
11360.3	55°	11109.3	10093.9	5746.5	2082.8	1293.8	1228.9	1191.4	1125.1	1057.3	1009.7
12013.7	57.5°	11615.6	10316.0	5355.6	1729.4	1185.7	1158.2	1162.6	1100.5	1022.7	982.3
12657.0	60°	12036.8	10479.0	4777.2	1402.0	1097.7	1089.0	1117.9	1054.4	963.5	917.4
13200.8	62.5°	12289.2	10476.1	4067.6	1148.1	1022.7	1025.5	1058.7	996.7	904.4	861.1
13485.0	65°	12267.6	10219.4	3288.7	982.3	950.5	953.4	996.7	933.2	855.3	829.4
13342.2	67.5°	11833.4	9593.4	2522.8	874.1	871.2	884.2	934.7	890.0	825.1	822.2
12491.2	70°	10657.9	8293.8	1817.4	787.5	789.0	807.7	874.1	862.6	809.2	815.0
10502.1	72.5°	8546.2	6323.5	1220.3	696.7	698.1	728.4	816.4	840.9	793.3	869.8
7451.4	75°	5691.7	3943.5	784.7	600.0	601.5	640.4	765.9	799.1	750.0	866.9
3877.2	77.5°	2734.8	1772.7	568.3	504.8	504.8	540.9	662.1	715.4	639.0	673.6
1246.2	80°	944.8	666.4	447.1	406.8	398.1	422.6	558.2	620.2	551.0	507.7
406.8	82.5°	372.1	346.2	359.2	315.9	287.0	302.9	434.2	512.1	405.3	366.4
229.3	85°	213.5	225.0	253.9	209.1	165.9	186.1	318.8	367.8	305.8	269.7
75.0	87.5°	57.7	79.3	116.8	108.2	75.0	79.3	151.5	203.4	176.0	135.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
3044.9
3122.8
3246.8
3396.8
3535.3
3584.4
3585.8
3522.3
3373.8
3163.2
2942.5
2740.6
2561.7
2338.1
2087.1
1837.6
1614.0
1426.5
1240.5
1135.2
1068.8
1022.7
990.9
956.3
897.2
848.1
827.9
826.5
813.5
881.3
874.1
617.3
476.0
364.9
275.5
139.9
0.0

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