

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: P948945

Luminaire Tested: **GALN-SB3D-830-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
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-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

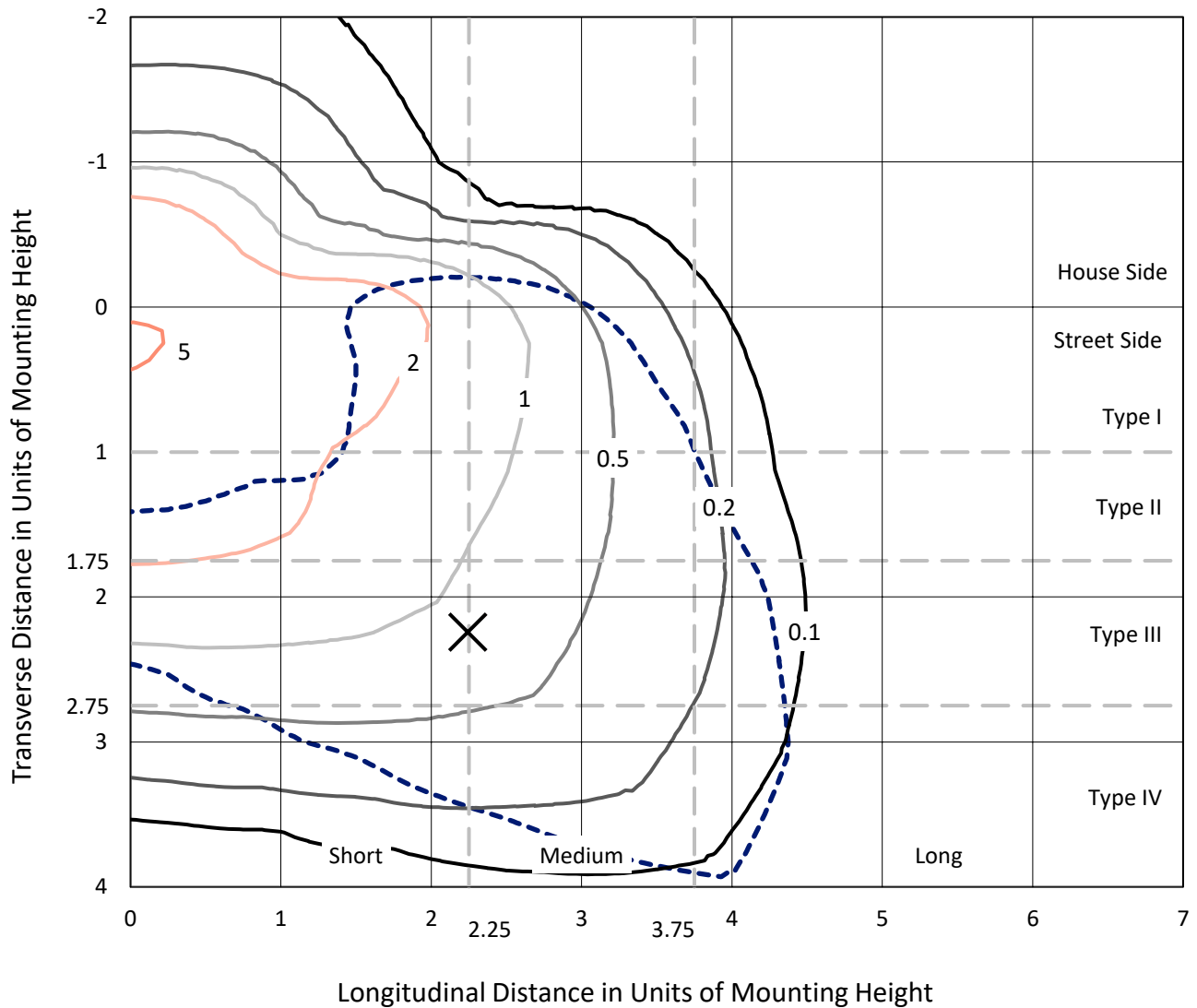
Lumens per Lamp: N/A  
Luminaire Lumens: 27381 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

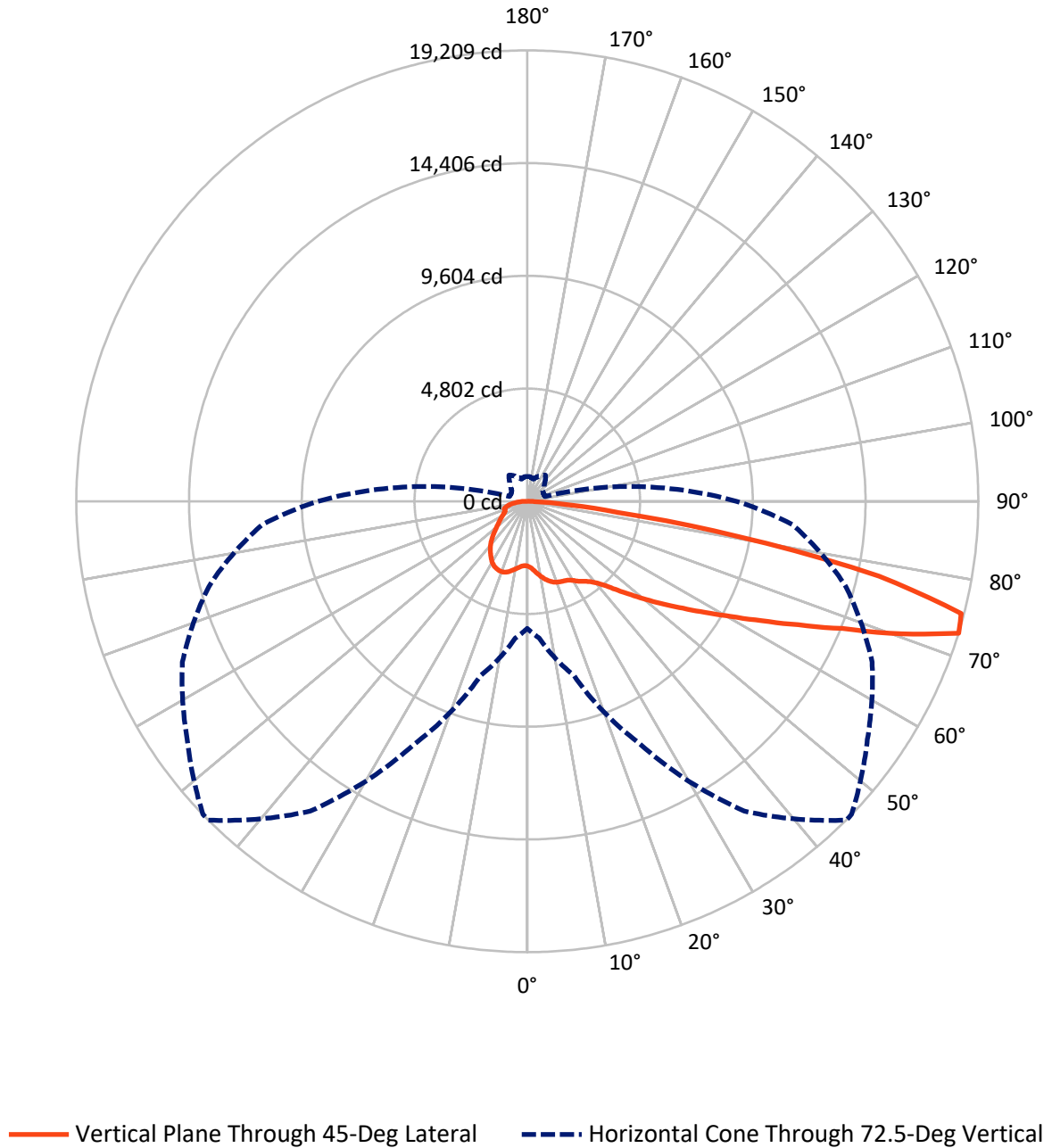
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - 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	6189.9	0.0	6189.9
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	21191.1	0.0	21191.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	27381.0	0.0	27381.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.1	1.0
10°-20°	937.4	3.4
20°-30°	1630.6	6.0
30°-40°	2337.5	8.5
40°-50°	3291.4	12.0
50°-60°	5041.4	18.4
60°-70°	7303.2	26.7
70°-80°	5832.1	21.3
80°-90°	726.4	2.7
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°	27381.0	100.0
0°-180°	27381.0	100.0



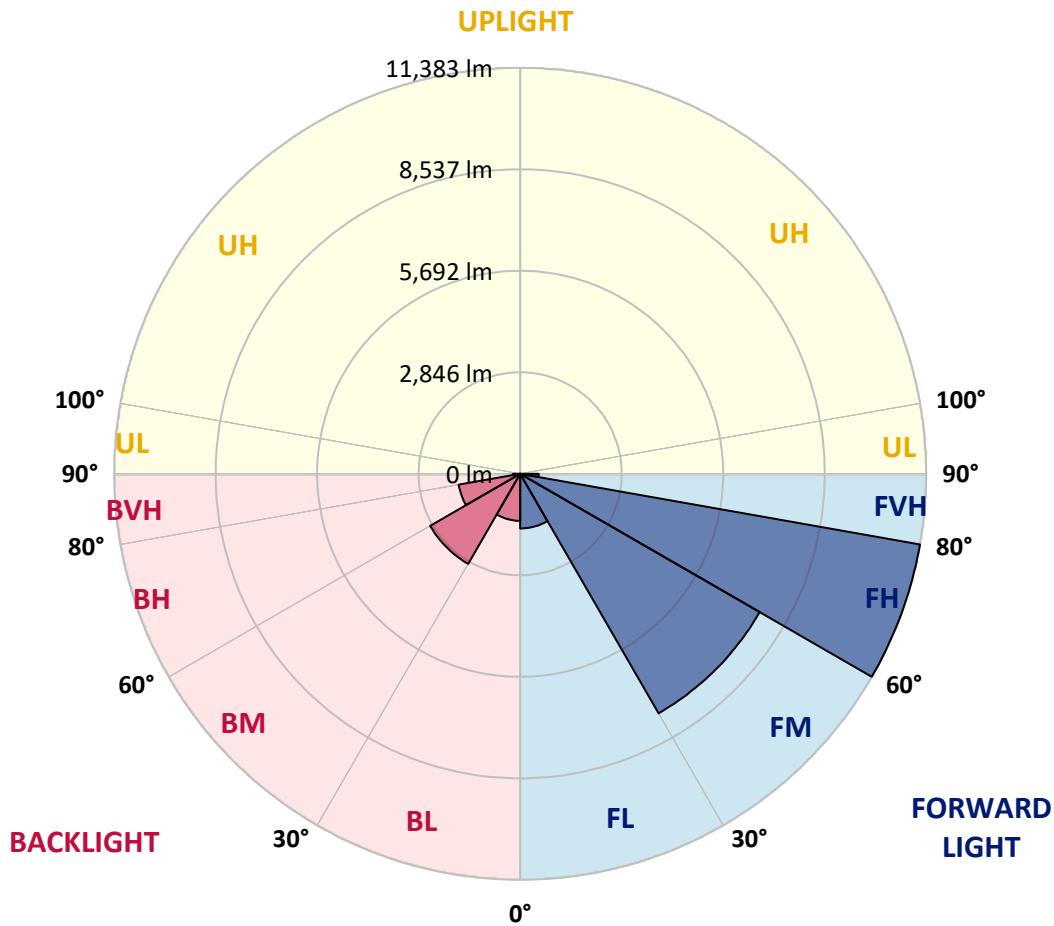
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1531.2	5.6			
FM (30°-60°)	7755.7	28.3			
FH (60°-80°)	11383.1	41.6			G4/12000
FVH (80°-90°)	521.1	1.9			G4/750
BL (0°-30°)	1317.9	4.8	B3/2500		
BM (30°-60°)	2914.6	10.6	B3/5000		
BH (60°-80°)	1752.2	6.4	B3/2500		G3/2500
BVH (80°-90°)	205.3	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2
2.5°	2870.4	2889.1	2871.8	2856.0	2848.8	2830.0	2828.6	2817.0	2809.8	2789.6
5°	3070.9	3095.4	3066.6	3034.8	3006.0	2959.8	2954.1	2920.9	2883.4	2840.1
7.5°	3297.3	3319.0	3285.8	3238.2	3187.7	3111.3	3109.8	3049.2	2990.1	2916.5
10°	3495.0	3523.8	3479.1	3414.2	3350.7	3264.2	3254.1	3184.8	3109.8	3014.6
12.5°	3669.5	3689.7	3646.4	3567.1	3493.5	3407.0	3394.0	3317.5	3233.9	3125.7
15°	3808.0	3833.9	3776.2	3691.1	3613.2	3528.1	3516.6	3447.4	3363.7	3249.7
17.5°	3898.8	3920.5	3861.3	3766.1	3691.1	3620.4	3611.8	3554.1	3480.5	3365.1
20°	3933.4	3956.5	3894.5	3797.9	3728.6	3673.8	3669.5	3627.7	3577.2	3471.9
22.5°	3968.1	3989.7	3908.9	3808.0	3747.4	3712.8	3711.3	3683.9	3663.7	3577.2
25°	4108.0	4113.7	4005.6	3859.9	3773.3	3743.0	3741.6	3740.2	3748.8	3681.0
27.5°	4229.1	4227.7	4135.4	3998.4	3864.2	3800.7	3799.3	3813.7	3841.1	3784.9
30°	4406.6	4390.7	4281.1	4138.3	4015.7	3917.6	3908.9	3895.9	3917.6	3872.9
32.5°	4783.0	4732.5	4555.1	4301.3	4141.2	4066.1	4054.6	3973.8	3982.5	3955.1
35°	5322.5	5256.1	5019.6	4609.9	4296.9	4190.2	4184.4	4082.0	4064.7	4040.2
37.5°	5964.4	5882.1	5606.6	5057.1	4565.2	4334.4	4325.8	4233.5	4162.8	4136.8
40°	6609.1	6505.3	6277.4	5602.3	4960.4	4575.3	4547.9	4408.0	4327.2	4283.9
42.5°	7235.1	7148.6	6953.8	6213.9	5448.0	4927.3	4866.7	4627.2	4566.7	4526.3
45°	7789.0	7711.1	7568.3	6867.3	6019.2	5406.1	5347.0	4956.1	4937.4	4937.4
47.5°	8239.0	8221.7	8070.3	7533.7	6692.8	5951.4	5849.0	5413.4	5463.8	5541.7
50°	8738.1	8690.5	8529.0	8190.0	7484.7	6575.9	6492.3	5974.5	6163.4	6376.9
52.5°	9196.8	9222.8	9042.5	8873.7	8378.9	7272.6	7125.5	6636.5	7044.7	7398.1
55°	9668.5	9669.9	9619.4	9596.3	9316.5	8042.9	7881.3	7432.7	8081.8	8520.3
57.5°	10111.3	10114.2	10189.2	10392.5	10404.1	8931.4	8748.2	8410.7	9234.3	9681.4
60°	10506.5	10526.7	10731.5	11207.5	11360.4	9949.7	9776.6	9566.0	10425.7	10875.8
62.5°	10639.2	10712.8	11168.6	11845.0	12305.2	11198.9	11028.6	10903.2	11677.7	12096.0
65°	10414.2	10582.9	11464.3	12371.5	13277.4	12683.1	12514.3	12377.3	12978.8	13372.6
67.5°	9861.7	10079.5	11446.9	12924.0	14457.2	14468.8	14311.6	13989.9	14373.6	14525.0
70°	8406.3	8732.3	10438.7	13130.2	15811.7	16910.8	16759.3	15931.4	15765.5	15032.8
72.5°	5416.2	5854.7	7686.6	11432.5	16113.1	19208.5	19199.9	17683.9	16205.4	14046.2
75°	1976.1	2244.4	3571.4	7176.0	13525.5	19091.7	19148.0	17383.9	14793.3	10849.8
77.5°	719.8	787.6	1165.5	2757.9	8318.4	15318.4	15435.2	13897.6	10529.6	5445.1
80°	377.9	415.4	597.2	1070.3	3564.2	9097.3	9280.4	8259.2	4948.9	1640.0
82.5°	209.1	226.5	334.6	581.3	1605.4	3890.2	3999.8	3262.7	1741.0	695.2
85°	112.5	119.7	157.2	317.3	784.7	1348.7	1378.9	975.1	693.8	408.2
87.5°	33.2	40.4	51.9	101.0	307.2	302.9	310.1	193.3	274.1	206.3
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°
2762.2	0°	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2
2783.8	2.5°	2775.2	2770.9	2755.0	2747.8	2739.1	2737.7	2744.9	2746.3	2747.8	2749.2
2815.6	5°	2801.2	2786.7	2772.3	2763.7	2766.5	2768.0	2782.4	2792.5	2799.7	2805.5
2874.7	7.5°	2851.6	2840.1	2815.6	2814.1	2818.5	2831.4	2850.2	2873.3	2886.3	2896.4
2951.2	10°	2926.6	2905.0	2876.2	2880.5	2889.1	2907.9	2946.8	2965.6	2987.2	3006.0
3044.9	12.5°	3003.1	2984.3	2951.2	2954.1	2968.5	3001.6	3039.2	3062.2	3076.7	3091.1
3145.9	15°	3102.6	3069.4	3033.4	3033.4	3059.3	3095.4	3112.7	3131.5	3140.1	3156.0
3254.1	17.5°	3205.0	3161.8	3114.2	3111.3	3143.0	3160.3	3170.4	3173.3	3176.2	3193.5
3359.4	20°	3307.4	3259.8	3192.0	3186.3	3193.5	3190.6	3189.2	3186.3	3190.6	3212.2
3467.5	22.5°	3408.4	3353.6	3259.8	3233.9	3213.7	3186.3	3184.8	3183.4	3186.3	3207.9
3584.4	25°	3526.7	3460.3	3334.8	3257.0	3189.2	3151.7	3156.0	3157.4	3160.3	3177.6
3705.5	27.5°	3655.1	3581.5	3404.1	3249.7	3127.1	3101.2	3094.0	3098.3	3108.4	3135.8
3826.7	30°	3783.4	3696.9	3467.5	3220.9	3049.2	3013.2	2990.1	3000.2	3031.9	3059.3
3932.0	32.5°	3900.3	3813.7	3518.0	3157.4	2949.7	2893.5	2863.2	2876.2	2907.9	2918.0
4048.8	35°	4037.3	3939.2	3539.7	3056.5	2841.5	2755.0	2714.6	2695.9	2711.7	2701.6
4185.9	37.5°	4190.2	4087.8	3536.8	2923.8	2714.6	2615.1	2558.8	2488.2	2455.0	2420.4
4387.8	40°	4416.7	4269.5	3502.2	2763.7	2557.4	2466.5	2365.5	2245.8	2170.8	2103.0
4713.8	42.5°	4725.3	4521.9	3438.7	2587.7	2380.0	2294.9	2157.8	2017.9	1899.7	1787.1
5208.5	45°	5185.5	4852.3	3359.4	2400.2	2188.1	2104.5	1955.9	1798.7	1664.5	1520.3
5911.0	47.5°	5849.0	5296.5	3284.4	2186.7	1986.2	1909.7	1775.6	1629.9	1471.3	1331.3
6926.4	50°	6760.6	5934.1	3215.1	1979.0	1787.1	1729.4	1622.7	1474.1	1314.0	1201.5
8116.4	52.5°	7920.3	6801.0	3186.3	1778.5	1601.1	1579.4	1494.3	1355.9	1204.4	1109.2
9504.0	55°	9251.6	7838.0	3186.3	1586.6	1438.1	1445.3	1386.2	1257.8	1126.5	1041.4
10934.9	57.5°	10610.3	8888.1	3128.6	1409.2	1299.6	1329.9	1292.4	1179.9	1061.6	973.6
12439.3	60°	11862.4	9768.0	2894.9	1247.7	1177.0	1224.6	1200.1	1103.4	959.2	885.6
13697.1	62.5°	12824.4	10264.2	2444.9	1119.3	1076.0	1130.8	1117.9	1002.5	940.4	910.2
14729.9	65°	13306.2	10183.4	1869.4	1005.4	990.9	1076.0	1048.6	1044.3	995.3	960.6
15065.9	67.5°	13010.5	9488.2	1355.9	921.7	941.9	1025.6	1130.8	1148.2	1057.3	989.5
14119.7	70°	11713.8	8230.4	1009.7	842.4	879.9	1027.0	1289.5	1201.5	1037.1	957.8
11324.3	72.5°	8911.2	6137.4	783.2	758.7	799.1	1034.2	1360.2	1177.0	979.4	1058.7
7054.8	75°	5096.0	3369.5	628.9	656.3	698.1	966.4	1324.1	1113.5	934.7	972.2
2795.4	77.5°	1942.9	1295.3	519.3	555.3	561.1	843.8	1266.4	1109.2	890.0	868.3
838.0	80°	673.6	506.3	429.8	441.4	434.2	750.1	1214.5	965.0	728.4	652.0
346.2	82.5°	275.5	252.4	340.4	326.0	308.7	582.7	980.8	789.0	595.7	526.5
167.3	85°	119.7	160.1	225.0	197.6	178.9	403.9	786.1	667.8	503.4	434.2
54.8	87.5°	24.5	60.6	95.2	89.4	92.3	269.7	558.2	474.6	356.3	266.8
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>
2762.2
2755.0
2808.4
2899.2
3001.6
3096.8
3161.8
3199.3
3220.9
3222.3
3200.7
3163.2
3089.6
2954.1
2733.4
2442.0
2107.4
1777.0
1503.0
1315.5
1194.3
1102.0
1032.8
959.2
874.1
900.1
949.1
978.0
944.8
1050.1
972.2
791.9
630.3
520.7
432.7
209.1
0.0

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