

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: P942867

Luminaire Tested: **GALN-SB7A-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942867
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-SB7A-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27759 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

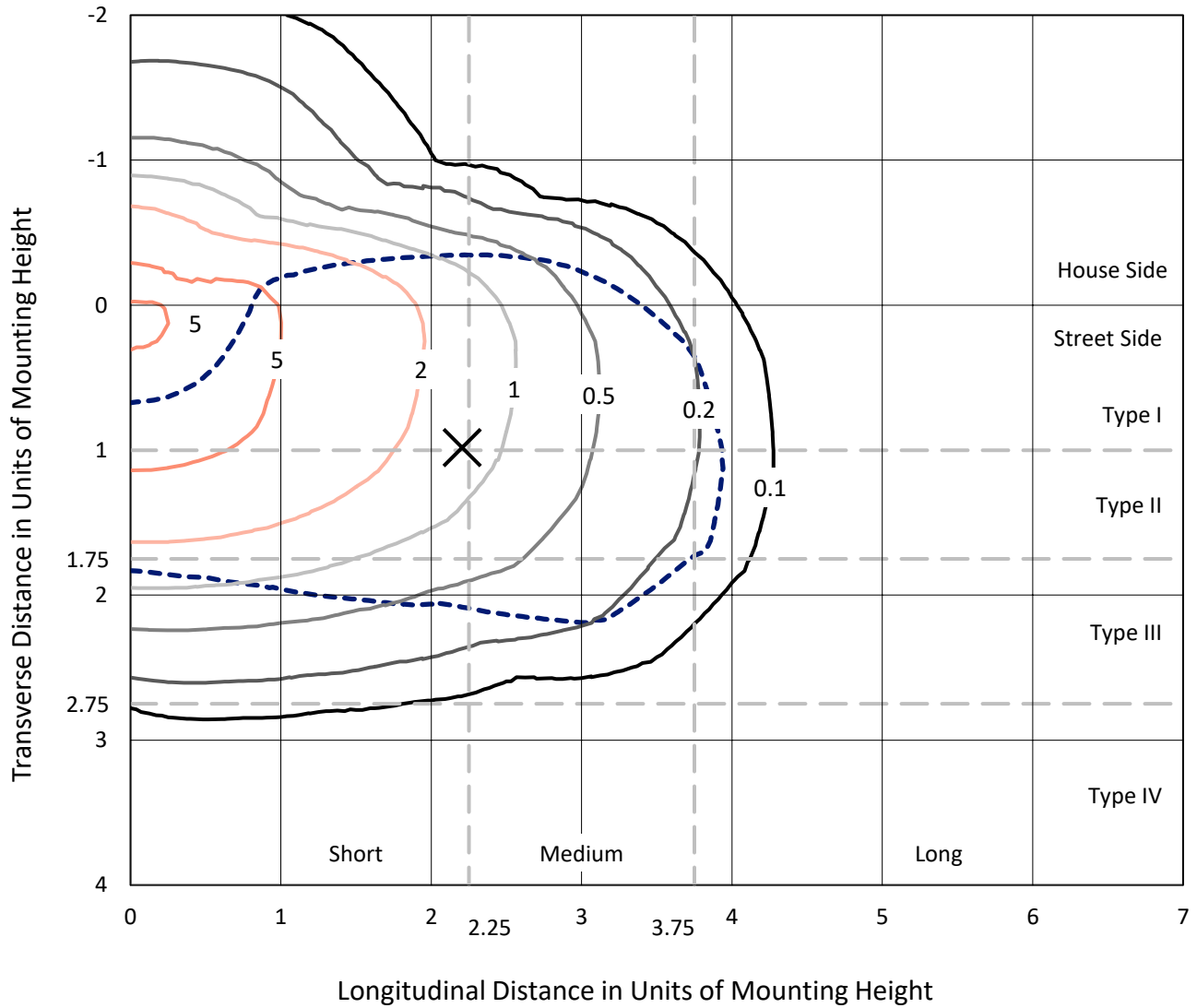
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

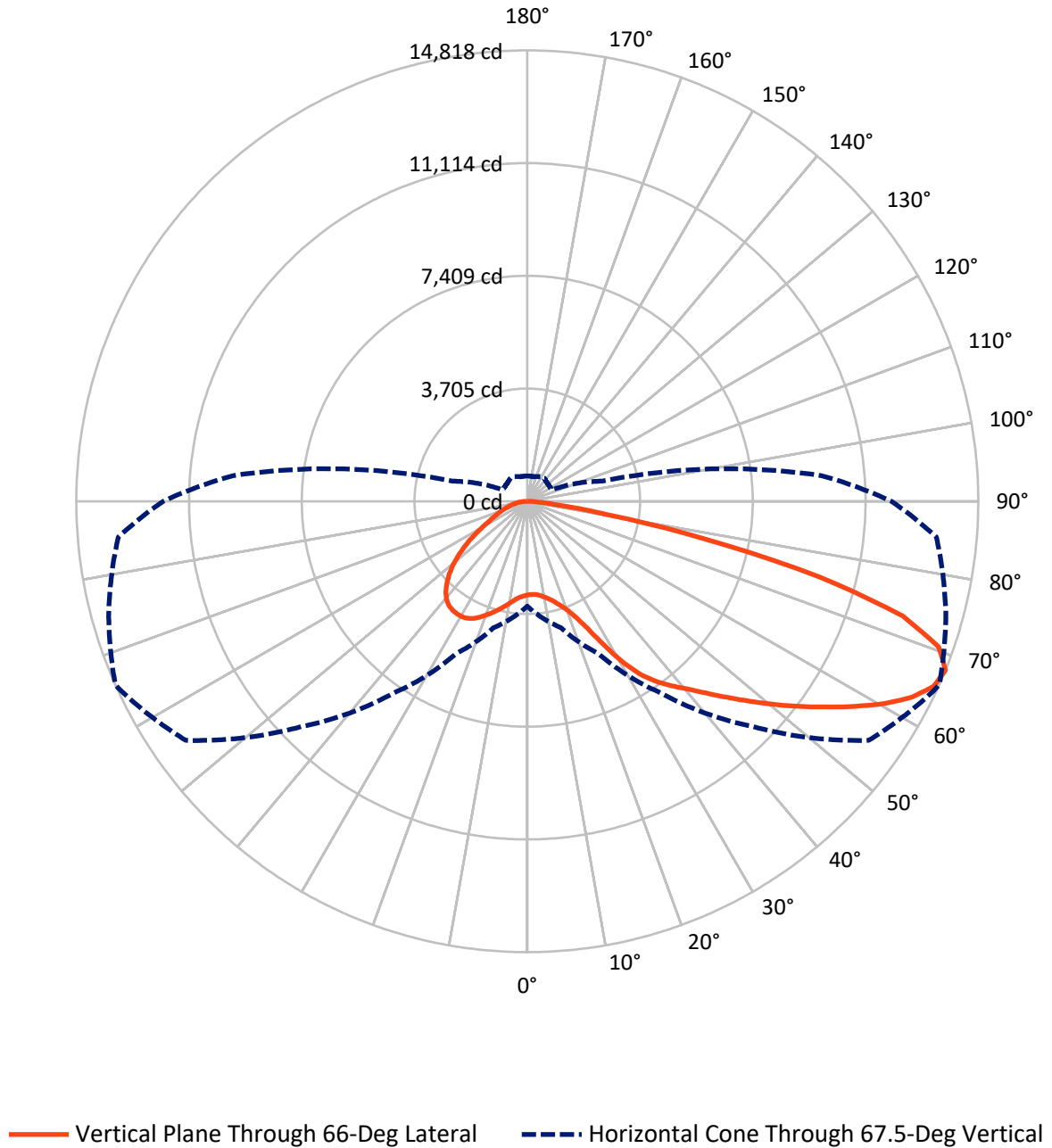
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6902.2	0.0	6902.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	20856.8	0.0	20856.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	27759.0	0.0	27759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.3	1.1
10°-20°	1008.5	3.6
20°-30°	1943.9	7.0
30°-40°	3408.3	12.3
40°-50°	5067.0	18.3
50°-60°	6423.0	23.1
60°-70°	6284.7	22.6
70°-80°	2997.9	10.8
80°-90°	320.4	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°	27759.0	100.0
0°-180°	27759.0	100.0

Coefficient of Utilization



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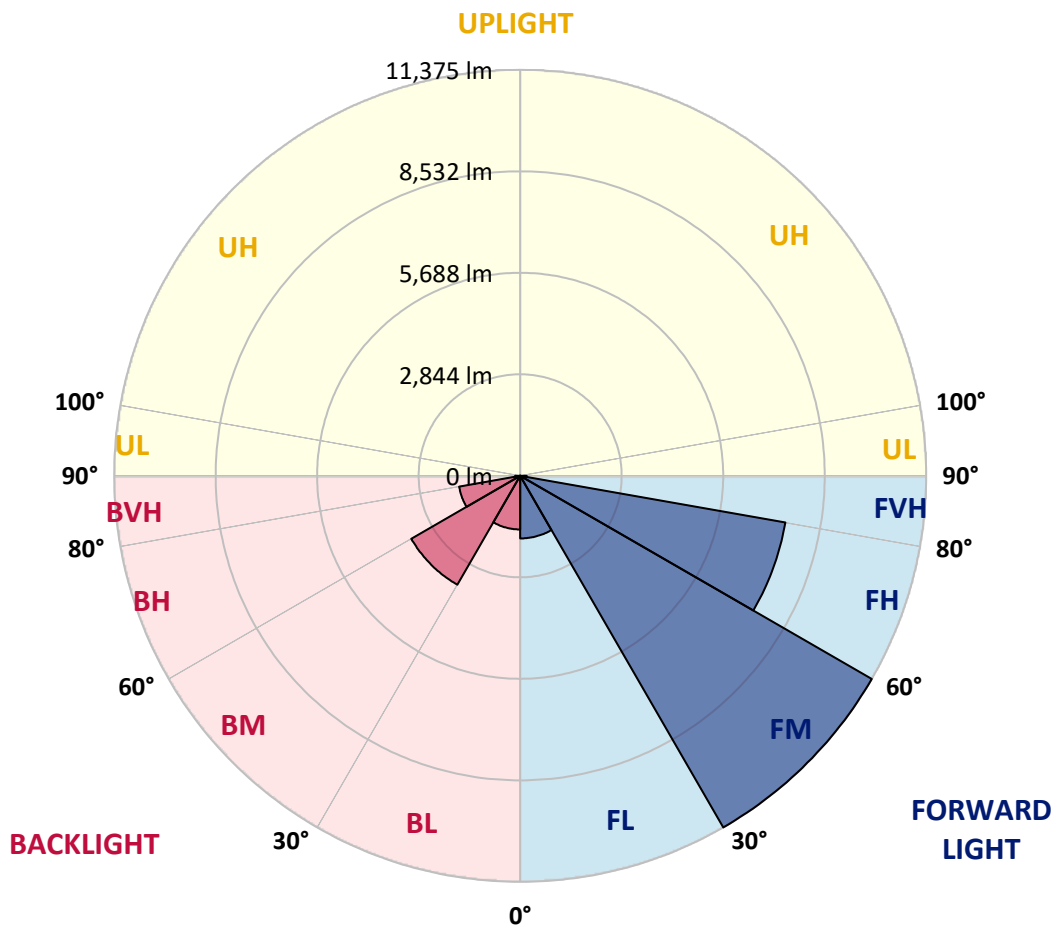
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1754.1	6.3			
FM (30°-60°)	11375.4	41.0			
FH (60°-80°)	7545.7	27.2			G4/12000
FVH (80°-90°)	181.6	0.7			G2/225
BL (0°-30°)	1503.5	5.4	B3/2500		
BM (30°-60°)	3523.0	12.7	B3/5000		
BH (60°-80°)	1736.9	6.3	B3/2500		G3/2500
BVH (80°-90°)	138.7	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8
2.5°	3046.8	3064.3	3059.9	3052.6	3051.1	3054.0	3058.4	3062.8	3061.3	3068.6
5°	3038.0	3055.5	3054.0	3054.0	3059.9	3071.5	3078.8	3086.1	3078.8	3087.6
7.5°	3043.8	3057.0	3062.8	3068.6	3083.2	3105.1	3122.6	3138.6	3129.9	3140.1
10°	3118.2	3128.4	3134.3	3134.3	3144.5	3169.3	3186.8	3215.9	3208.6	3224.7
12.5°	3253.9	3264.1	3264.1	3258.2	3265.5	3281.6	3287.4	3319.5	3306.4	3332.6
15°	3420.1	3440.5	3424.5	3414.3	3417.2	3433.2	3431.8	3456.6	3443.5	3465.3
17.5°	3603.9	3630.1	3603.9	3602.4	3596.6	3614.1	3615.6	3637.4	3614.1	3630.1
20°	3821.2	3857.7	3835.8	3843.1	3830.0	3837.2	3844.5	3876.6	3840.2	3851.8
22.5°	4127.5	4171.2	4147.9	4175.6	4166.9	4161.0	4159.6	4216.5	4159.6	4163.9
25°	4573.8	4626.3	4585.4	4623.4	4623.4	4642.3	4664.2	4737.1	4642.3	4614.6
27.5°	5233.0	5285.5	5205.3	5228.6	5221.3	5268.0	5244.7	5425.5	5323.4	5278.2
30°	6026.4	6119.8	5968.1	5962.2	5955.0	6029.3	6062.9	6182.5	6078.9	6033.7
32.5°	6884.0	6981.7	6800.9	6748.4	6720.7	6765.9	6738.2	6834.4	6762.9	6692.9
35°	7791.2	7887.4	7715.3	7613.2	7502.4	7407.6	7308.4	7333.2	7266.1	7159.7
37.5°	8648.8	8825.2	8642.9	8533.5	8329.3	8144.1	7867.0	7751.8	7689.1	7591.4
40°	9522.4	9623.0	9484.5	9391.1	9169.4	8879.2	8435.8	8192.3	8107.7	8012.9
42.5°	10165.6	10261.8	10187.4	10123.3	9949.7	9612.8	9039.6	8734.8	8612.3	8505.8
45°	10676.0	10747.5	10700.8	10724.2	10649.8	10323.1	9665.3	9316.7	9189.8	9060.0
47.5°	10881.7	10957.5	11031.9	11170.5	11297.3	11056.7	10337.7	9946.8	9812.6	9679.9
50°	10858.3	10935.6	11151.5	11446.1	11839.9	11759.7	11046.5	10617.7	10493.7	10342.0
52.5°	10671.7	10759.2	11036.3	11526.3	12153.5	12286.2	11768.4	11310.5	11193.8	11012.9
55°	10181.6	10234.1	10649.8	11344.0	12227.9	12653.7	12475.8	12048.5	11931.8	11679.5
57.5°	9273.0	9348.8	9954.1	10852.5	12041.2	12903.1	13097.1	12824.4	12712.1	12348.9
60°	8087.2	8208.3	8901.1	10027.0	11565.7	12901.7	13661.5	13587.1	13493.8	13008.1
62.5°	6745.4	6885.5	7552.0	8860.2	10734.4	12535.6	14014.5	14226.0	14177.8	13616.3
65°	5180.5	5276.8	5940.4	7350.7	9440.7	11749.5	14055.3	14662.0	14670.8	14078.7
67.5°	3449.3	3726.4	4302.5	5516.0	7708.0	10464.6	13696.5	14733.5	14818.1	14237.6
70°	1683.1	2047.7	2612.1	3584.9	5516.0	8494.2	12758.7	14147.2	14335.3	13773.8
72.5°	698.6	816.7	1124.5	1769.1	3166.3	5731.8	10874.4	12557.5	12906.0	12204.5
75°	471.1	510.5	643.2	907.2	1442.4	2826.5	7842.2	9363.4	9924.9	9217.6
77.5°	363.2	388.0	468.2	634.4	857.6	1069.1	4197.5	5642.8	5933.1	5492.6
80°	285.9	304.8	350.0	462.3	608.2	571.7	1430.8	2556.7	2724.4	2285.4
82.5°	247.9	255.2	250.9	313.6	404.0	334.0	469.6	943.6	1041.4	755.5
85°	179.4	199.8	208.6	194.0	214.4	169.2	192.5	334.0	367.5	328.2
87.5°	72.9	107.9	132.7	125.4	78.8	48.1	59.8	97.7	112.3	122.5
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°
3078.8	0°	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8
3080.3	2.5°	3081.8	3092.0	3099.3	3108.0	3113.8	3122.6	3140.1	3150.3	3151.8	3159.1
3103.6	5°	3109.5	3124.1	3140.1	3163.4	3189.7	3211.6	3245.1	3268.4	3277.2	3284.5
3160.5	7.5°	3169.3	3189.7	3218.9	3259.7	3297.6	3326.8	3367.6	3395.3	3423.0	3433.2
3250.9	10°	3258.2	3287.4	3329.7	3385.1	3426.0	3463.9	3506.2	3529.5	3557.2	3568.9
3358.9	12.5°	3369.1	3399.7	3455.1	3532.4	3570.3	3596.6	3611.2	3605.3	3611.2	3621.4
3488.7	15°	3496.0	3529.5	3592.2	3675.4	3701.6	3678.3	3646.2	3617.0	3612.6	3615.6
3646.2	17.5°	3646.2	3671.0	3743.9	3813.9	3795.0	3698.7	3628.7	3582.0	3558.7	3551.4
3847.5	20°	3856.2	3856.2	3916.0	3959.8	3832.9	3669.5	3560.1	3484.3	3436.2	3415.7
4121.6	22.5°	4111.4	4088.1	4126.0	4095.4	3825.6	3587.8	3436.2	3304.9	3232.0	3202.8
4505.2	25°	4435.2	4407.5	4397.3	4207.7	3773.1	3458.0	3211.6	3052.6	2988.4	2972.4
5058.0	27.5°	4923.8	4853.8	4721.1	4269.0	3676.8	3253.9	2949.0	2801.7	2765.3	2766.7
5768.3	30°	5574.3	5434.3	5109.0	4279.2	3519.3	2965.1	2680.7	2575.7	2558.2	2565.5
6364.8	32.5°	6176.6	6043.9	5505.7	4232.5	3277.2	2682.1	2440.0	2370.0	2343.8	2352.5
6819.8	35°	6649.2	6612.7	5873.3	4166.9	2979.7	2416.7	2224.2	2164.4	2113.3	2101.7
7248.6	37.5°	7095.5	7080.9	6148.9	4075.0	2685.1	2228.5	2050.6	1971.9	1897.5	1856.6
7722.6	40°	7585.5	7570.9	6329.8	3933.5	2424.0	2065.2	1894.6	1791.0	1699.1	1624.7
8259.3	42.5°	8136.8	8050.8	6415.8	3730.8	2202.3	1926.6	1767.7	1627.7	1506.6	1438.1
8866.1	45°	8739.2	8545.2	6414.4	3472.6	2015.6	1799.8	1632.0	1433.7	1321.4	1257.2
9488.8	47.5°	9378.0	9017.7	6335.6	3186.8	1834.8	1659.7	1422.0	1270.3	1195.9	1156.6
10165.6	50°	10037.2	9459.7	6201.4	2858.6	1649.5	1500.8	1290.8	1187.2	1130.3	1093.9
10836.5	52.5°	10657.1	9860.7	6039.5	2486.7	1461.4	1346.2	1232.4	1152.2	1092.4	1051.6
11486.9	55°	11233.2	10206.4	5810.6	2106.0	1308.3	1242.6	1204.7	1137.6	1069.1	1020.9
12147.6	57.5°	11745.1	10431.0	5415.3	1748.7	1198.9	1171.2	1175.5	1112.8	1034.1	993.2
12798.1	60°	12171.0	10595.8	4830.5	1417.6	1109.9	1101.1	1130.3	1066.1	974.3	927.6
13348.0	62.5°	12426.2	10592.9	4112.9	1160.9	1034.1	1037.0	1070.5	1007.8	914.5	870.7
13635.3	65°	12404.3	10333.3	3325.3	993.2	961.1	964.1	1007.8	943.6	864.9	838.6
13490.9	67.5°	11965.3	9700.3	2550.9	883.8	880.9	894.0	945.1	899.9	834.2	831.3
12630.4	70°	10776.7	8386.2	1837.7	796.3	797.8	816.7	883.8	872.2	818.2	824.0
10619.2	72.5°	8641.5	6394.0	1233.9	704.4	705.9	736.5	825.5	850.3	802.2	879.5
7534.5	75°	5755.1	3987.5	793.4	606.7	608.2	647.6	774.5	808.0	758.4	876.5
3920.4	77.5°	2765.3	1792.5	574.6	510.5	510.5	546.9	669.4	723.4	646.1	681.1
1260.1	80°	955.3	673.8	452.1	411.3	402.5	427.3	564.4	627.1	557.1	513.4
411.3	82.5°	376.3	350.0	363.2	319.4	290.2	306.3	439.0	517.8	409.8	370.5
231.9	85°	215.9	227.5	256.7	211.5	167.7	188.1	322.3	371.9	309.2	272.7
75.8	87.5°	58.3	80.2	118.1	109.4	75.8	80.2	153.1	205.6	177.9	137.1
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>
3078.8
3157.6
3283.0
3434.7
3574.7
3624.3
3625.8
3561.6
3411.4
3198.4
2975.3
2771.1
2590.3
2364.2
2110.4
1858.1
1632.0
1442.4
1254.3
1147.8
1080.7
1034.1
1002.0
967.0
907.2
857.6
837.2
835.7
822.6
891.1
883.8
624.2
481.3
369.0
278.6
141.5
0.0

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