

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: P943632

Luminaire Tested: **GALN-SB8A-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25013 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

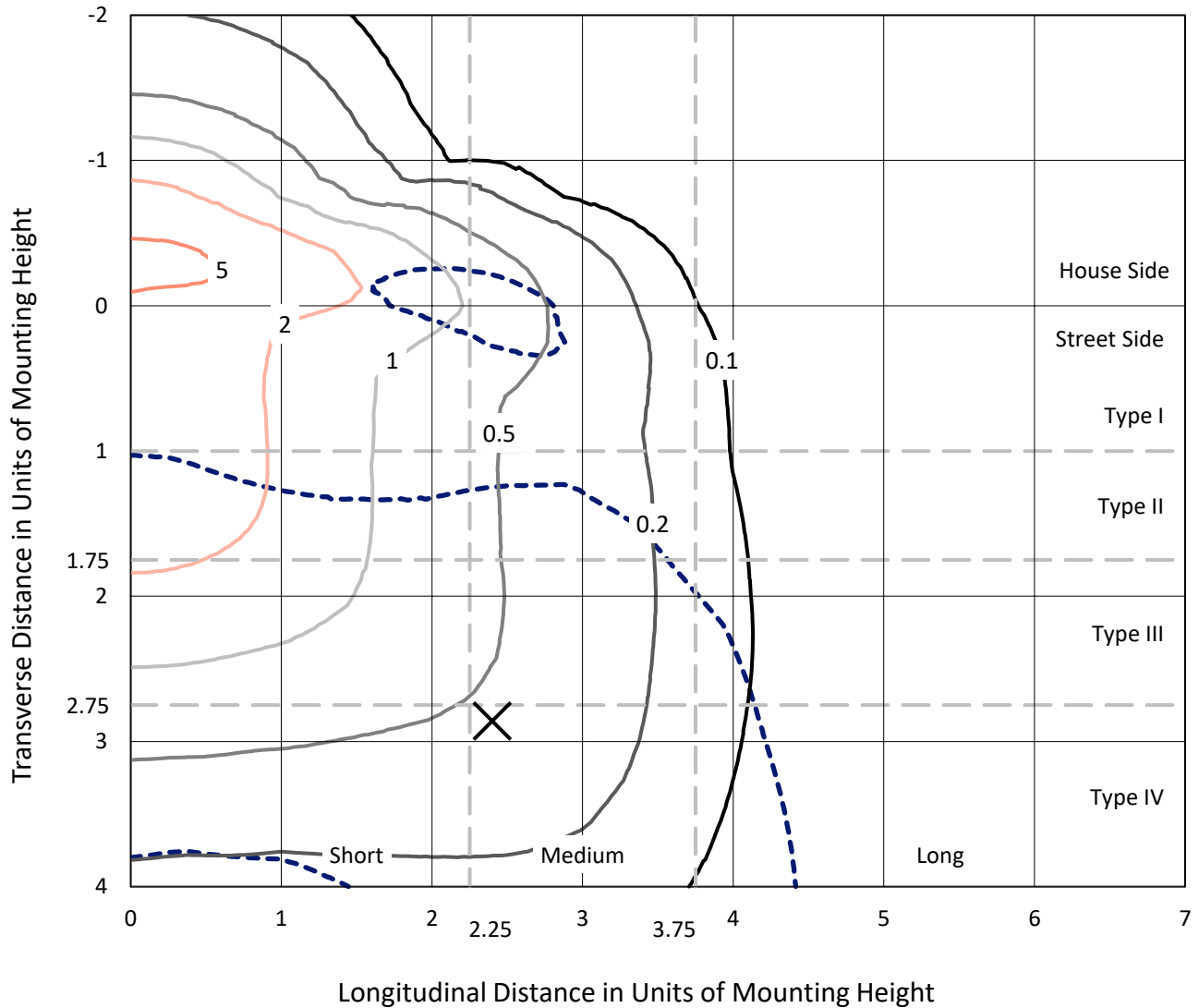
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

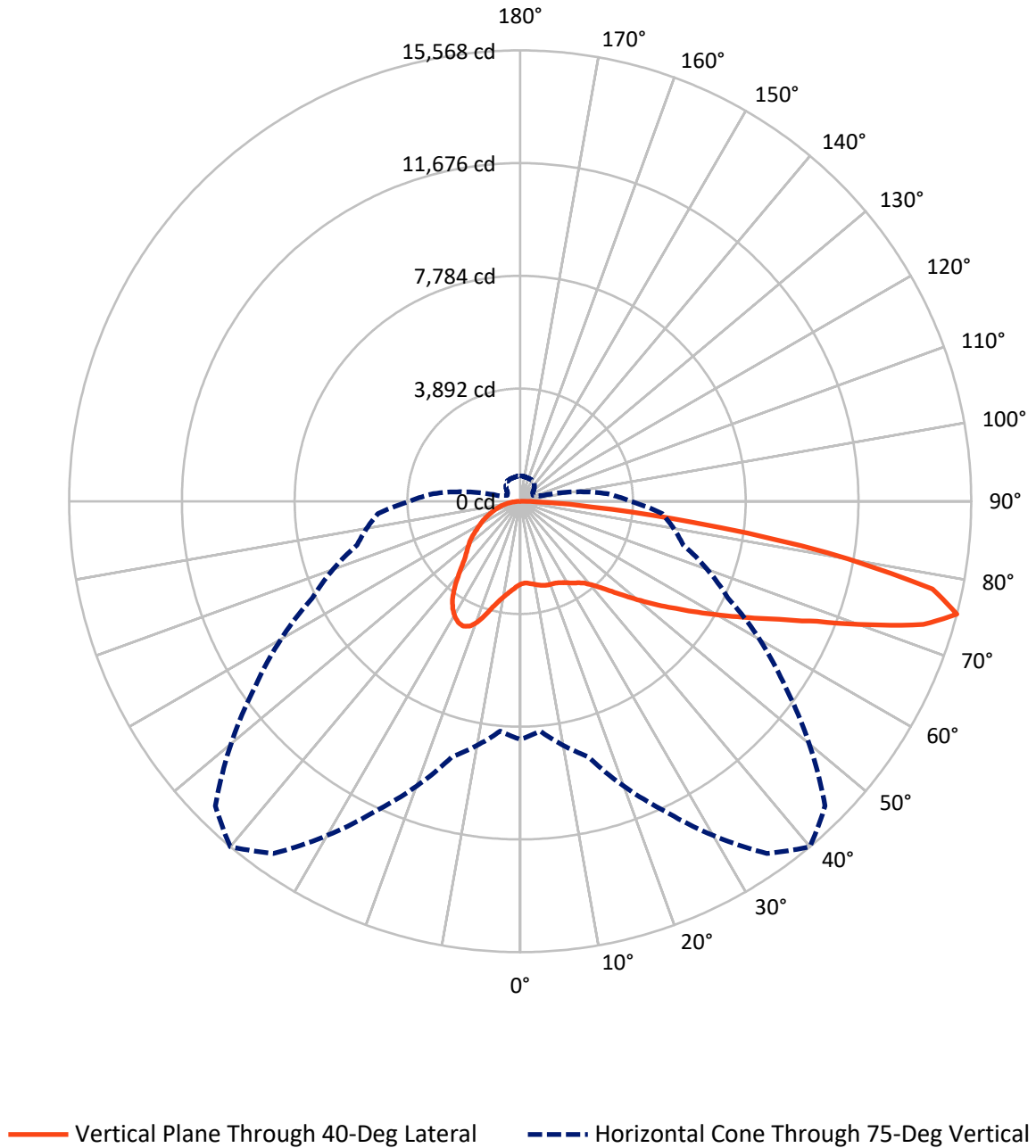
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7749.9	0.0	7749.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	17263.1	0.0	17263.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	25013.0	0.0	25013.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.5	1.1
10°-20°	958.6	3.8
20°-30°	1750.3	7.0
30°-40°	2482.4	9.9
40°-50°	3352.0	13.4
50°-60°	4509.3	18.0
60°-70°	5723.4	22.9
70°-80°	5194.3	20.8
80°-90°	757.2	3.0
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°	25013.0	100.0
0°-180°	25013.0	100.0



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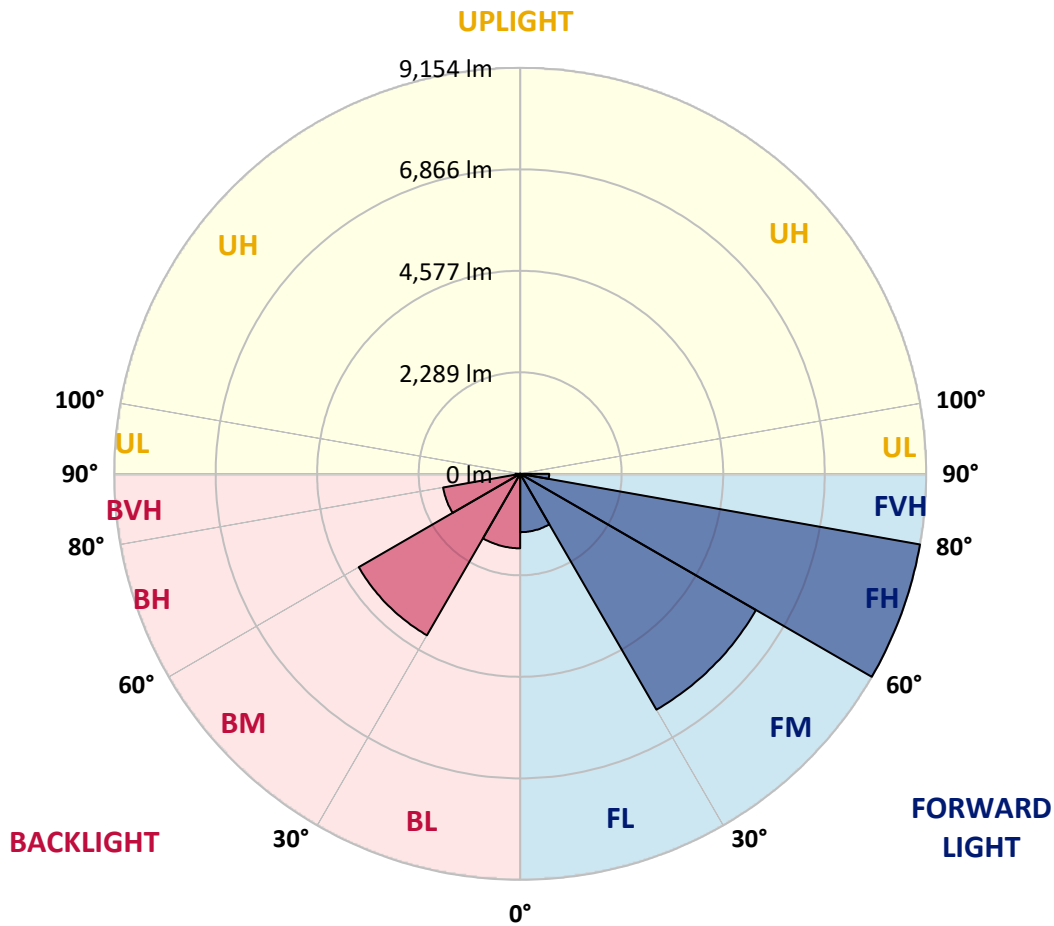
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1315.7	5.3			
FM (30°-60°)	6140.1	24.5			
FH (60°-80°)	9154.4	36.6			G4/12000
FVH (80°-90°)	652.9	2.6			G4/750
BL (0°-30°)	1678.7	6.7	B3/2500		
BM (30°-60°)	4203.6	16.8	B3/5000		
BH (60°-80°)	1763.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	104.2	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3
2.5°	2816.5	2832.4	2828.4	2823.1	2823.1	2824.5	2823.1	2832.4	2841.7	2851.0
5°	2845.7	2861.6	2853.6	2847.0	2841.7	2840.4	2836.4	2835.1	2840.4	2852.3
7.5°	2902.7	2918.6	2906.7	2894.8	2884.1	2878.8	2873.5	2865.6	2861.6	2868.2
10°	2966.4	2982.3	2967.7	2946.5	2929.3	2922.6	2917.3	2909.4	2904.0	2908.0
12.5°	3030.1	3046.0	3026.1	2996.9	2974.4	2970.4	2963.7	2961.1	2959.8	2958.4
15°	3089.8	3103.0	3077.8	3043.3	3019.5	3012.8	3006.2	3010.2	3016.8	3024.8
17.5°	3136.2	3149.5	3112.3	3067.2	3044.7	3042.0	3038.0	3051.3	3069.9	3089.8
20°	3178.7	3191.9	3144.2	3083.1	3056.6	3056.6	3057.9	3085.8	3112.3	3141.5
22.5°	3238.4	3249.0	3190.6	3107.0	3068.6	3071.2	3081.8	3109.7	3142.8	3182.6
25°	3327.3	3335.2	3263.6	3152.1	3108.4	3116.3	3125.6	3138.9	3170.7	3217.1
27.5°	3470.5	3477.2	3383.0	3231.7	3165.4	3178.7	3191.9	3182.6	3197.2	3237.0
30°	3672.2	3676.2	3556.8	3356.4	3262.2	3268.9	3271.5	3233.1	3205.2	3237.0
32.5°	3911.0	3909.7	3767.7	3507.7	3372.4	3365.7	3343.2	3267.6	3202.5	3230.4
35°	4281.1	4266.5	4083.4	3719.9	3497.1	3455.9	3402.9	3306.0	3215.8	3223.8
37.5°	4894.0	4848.9	4595.5	4067.5	3682.8	3578.0	3499.7	3368.4	3245.0	3221.1
40°	5585.2	5528.2	5249.6	4543.8	3961.4	3792.9	3666.9	3457.3	3292.8	3233.1
42.5°	6405.1	6324.2	6024.3	5105.0	4314.3	4070.2	3880.5	3570.0	3363.1	3271.5
45°	7412.0	7304.6	6880.0	5737.8	4758.7	4433.7	4180.3	3741.2	3470.5	3345.8
47.5°	8429.6	8456.1	7852.5	6462.1	5292.0	4882.1	4555.7	3998.5	3627.1	3465.2
50°	9510.8	9529.4	8819.6	7264.8	5897.0	5388.9	4977.6	4286.4	3844.6	3635.0
52.5°	10354.5	10357.2	9697.9	8104.5	6527.1	5946.1	5432.7	4615.4	4096.7	3860.6
55°	10882.6	10875.9	10313.4	8899.2	7251.5	6531.1	5936.8	4989.6	4404.5	4125.9
57.5°	11266.0	11246.1	10738.0	9582.4	8023.6	7222.3	6507.2	5414.1	4768.0	4441.6
60°	11411.9	11400.0	11025.8	10172.8	8835.5	7986.5	7165.3	5889.0	5180.6	4814.4
62.5°	11467.6	11490.2	11308.4	10744.6	9704.5	8832.9	7888.3	6456.8	5644.9	5236.3
65°	11664.0	11705.1	11667.9	11492.8	10686.2	9823.9	8847.5	7132.1	6151.7	5688.7
67.5°	12052.7	12093.8	12109.7	12388.3	11885.5	11059.0	10044.1	7973.2	6744.7	6158.3
70°	12043.4	12031.4	12312.7	13100.7	13387.3	12769.1	11657.3	9008.0	7451.8	6548.4
72.5°	10962.2	10866.6	11531.3	13092.8	14637.0	14554.7	13627.4	10342.6	8062.1	6596.1
75°	8223.9	7969.2	9143.3	11799.3	14845.3	15568.3	14879.8	11170.4	7917.5	5828.0
77.5°	3517.0	3260.9	4644.6	8734.7	13286.5	14553.4	13730.9	9745.6	6320.2	3853.9
80°	920.7	919.4	1403.6	3960.1	9035.9	10747.2	9428.5	6293.7	3611.2	1377.1
82.5°	380.8	371.5	516.1	1540.2	4415.1	6031.0	4921.9	2807.2	1304.1	372.8
85°	142.0	140.6	250.7	532.0	1557.5	2487.5	1800.3	717.7	325.0	181.8
87.5°	39.8	38.5	54.4	184.4	379.4	575.8	307.8	118.1	91.5	71.6
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°
2860.3	0°	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3
2865.6	2.5°	2869.6	2876.2	2888.1	2897.4	2909.4	2922.6	2941.2	2953.1	2965.1	2973.0
2872.2	5°	2881.5	2896.1	2926.6	2957.1	2992.9	3026.1	3064.6	3092.4	3115.0	3121.6
2896.1	7.5°	2908.0	2931.9	2983.6	3035.4	3092.4	3146.8	3202.5	3250.3	3288.8	3303.4
2938.5	10°	2954.5	2986.3	3059.3	3132.2	3207.9	3291.4	3363.1	3432.1	3486.5	3509.0
2989.0	12.5°	3012.8	3052.6	3148.2	3249.0	3353.8	3469.2	3562.1	3647.0	3714.6	3745.1
3059.3	15°	3088.5	3140.2	3262.2	3397.6	3551.5	3712.0	3830.1	3924.2	3999.9	4037.0
3132.2	17.5°	3170.7	3239.7	3393.6	3597.9	3818.1	4029.1	4167.0	4236.0	4314.3	4350.1
3199.9	20°	3250.3	3335.2	3555.4	3852.6	4145.8	4370.0	4481.4	4500.0	4505.3	4509.3
3263.6	22.5°	3332.6	3446.7	3758.4	4173.7	4488.1	4643.3	4659.2	4579.6	4468.2	4416.4
3325.9	25°	3422.8	3574.0	4023.7	4527.9	4782.6	4801.2	4679.1	4485.4	4274.5	4177.6
3376.3	27.5°	3510.3	3721.3	4342.1	4866.2	4994.9	4831.7	4569.0	4294.4	4039.7	3937.5
3412.2	30°	3597.9	3889.8	4693.7	5162.0	5091.7	4756.1	4395.2	4088.8	3832.7	3725.2
3444.0	32.5°	3686.8	4086.1	5098.3	5375.6	5074.5	4595.5	4179.0	3857.9	3632.4	3519.6
3471.9	35°	3787.6	4327.6	5481.7	5492.4	4959.0	4359.4	3893.7	3582.0	3385.6	3295.4
3505.0	37.5°	3918.9	4634.0	5820.0	5521.5	4757.4	4013.1	3539.5	3255.6	3093.8	3052.6
3554.1	40°	4082.1	5002.8	6078.7	5475.1	4458.9	3592.6	3152.1	2925.3	2833.7	2843.0
3620.4	42.5°	4294.4	5415.4	6260.5	5355.7	4043.6	3158.8	2812.5	2711.7	2755.5	2792.6
3719.9	45°	4570.3	5843.9	6373.3	5152.7	3574.0	2791.3	2612.2	2636.1	2669.2	2673.2
3880.5	47.5°	4923.2	6277.7	6447.5	4846.3	3095.1	2532.6	2484.8	2490.1	2483.5	2455.6
4120.6	50°	5363.7	6699.6	6513.9	4440.3	2687.8	2370.7	2307.1	2288.5	2196.9	2106.7
4440.3	52.5°	5865.1	7087.0	6541.7	3936.2	2370.7	2235.4	2131.9	2015.2	1844.1	1816.2
4842.3	55°	6422.3	7445.2	6470.1	3316.6	2104.1	2061.6	1905.1	1764.5	1745.9	1722.0
5371.6	57.5°	7088.3	7831.2	6324.2	2625.5	1830.8	1858.6	1706.1	1722.0	1688.8	1651.7
6052.2	60°	7816.7	8230.6	6068.1	1995.3	1548.2	1605.3	1654.3	1653.0	1643.7	1613.2
6769.9	62.5°	8472.0	8493.3	5564.0	1528.3	1300.1	1408.9	1542.9	1541.6	1533.6	1516.4
7519.5	65°	8862.1	8453.5	4722.9	1203.3	1095.8	1247.1	1391.7	1402.3	1403.6	1402.3
8083.3	67.5°	8793.1	7987.8	3568.7	957.8	927.3	1082.6	1241.7	1256.3	1267.0	1269.6
8155.0	70°	8013.0	6964.9	2327.0	764.2	777.4	937.9	1099.8	1114.4	1123.7	1134.3
7076.4	72.5°	6245.9	5120.9	1332.0	618.2	646.1	813.2	959.2	976.4	981.7	1001.6
4924.5	75°	3806.2	3011.5	719.0	486.9	530.7	695.2	819.9	839.8	849.1	872.9
2418.5	77.5°	1809.6	1304.1	409.9	379.4	427.2	567.8	692.5	715.1	689.9	703.1
667.3	80°	611.6	484.2	258.7	289.2	326.4	443.1	554.5	577.1	524.0	521.4
221.6	82.5°	213.6	196.3	164.5	192.4	210.9	317.1	419.2	448.4	390.0	388.7
99.5	85°	83.6	79.6	91.5	104.8	126.0	195.0	275.9	290.5	240.1	193.7
29.2	87.5°	17.2	18.6	22.6	23.9	38.5	67.7	99.5	122.1	96.8	82.3
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>
2860.3
2967.7
3124.3
3304.7
3510.3
3745.1
4034.4
4348.8
4519.9
4431.0
4192.2
3949.5
3737.2
3534.2
3315.3
3081.8
2874.9
2827.1
2699.7
2476.9
2118.7
1825.5
1726.0
1645.1
1602.6
1509.7
1402.3
1272.3
1139.6
1009.6
875.6
692.5
516.1
370.1
191.0
75.6
0.0

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