

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: P940452

Luminaire Tested: **GALN-SB3C-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940452
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-SB3C-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23565 lumens
Efficiency: N/A
Efficacy: 158.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

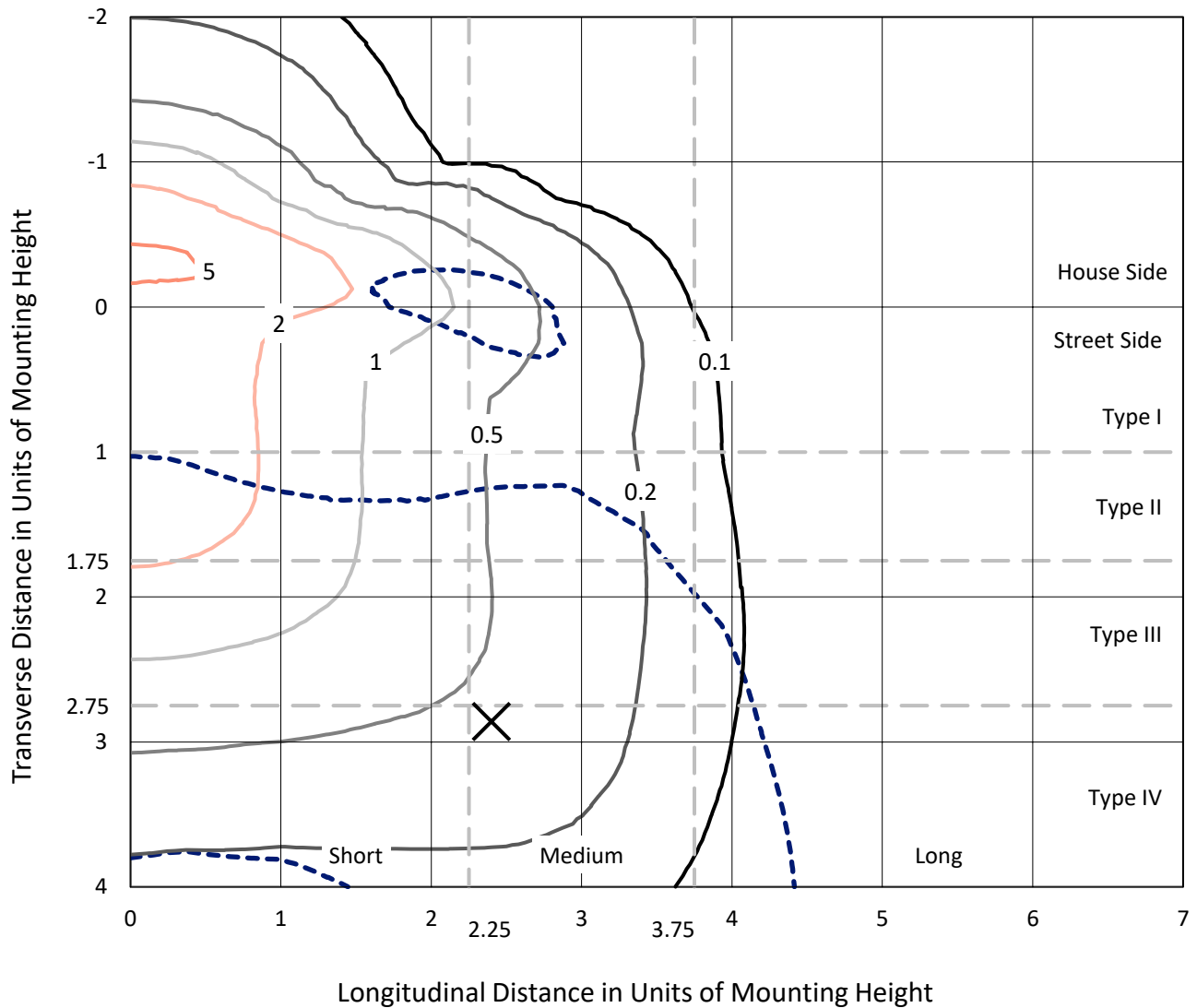
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940452
 CATALOG NUMBER: GALN-SB3C-740-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

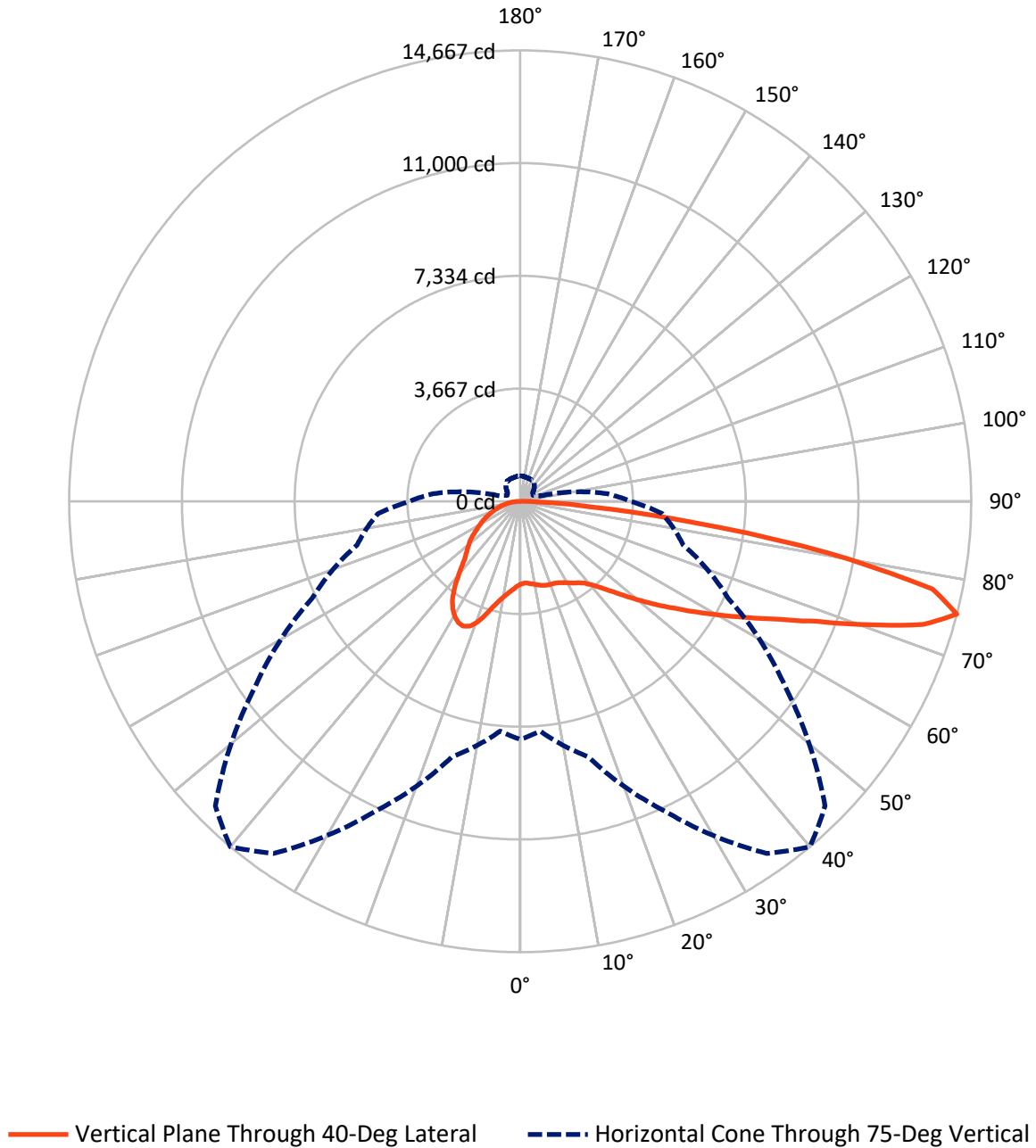
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P940452
CATALOG NUMBER: GALN-SB3C-740-U-SL4

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7301.2	0.0	7301.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	16263.8	0.0	16263.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	23565.0	0.0	23565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.0	1.1
10°-20°	903.1	3.8
20°-30°	1649.0	7.0
30°-40°	2338.7	9.9
40°-50°	3158.0	13.4
50°-60°	4248.3	18.0
60°-70°	5392.1	22.9
70°-80°	4893.6	20.8
80°-90°	713.3	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°	23565.0	100.0
0°-180°	23565.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940452

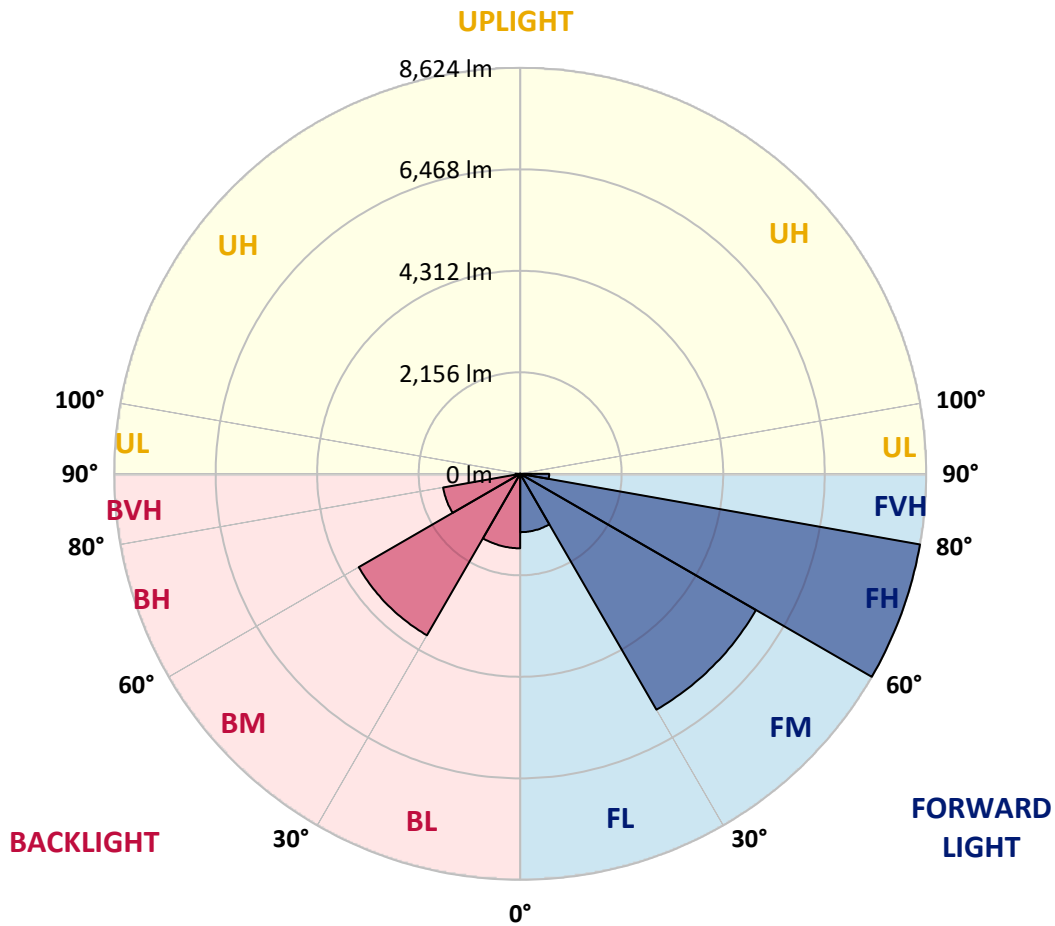
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.5	5.3			
FM (30°-60°)	5784.7	24.5			
FH (60°-80°)	8624.4	36.6			G4/12000
FVH (80°-90°)	615.1	2.6			G4/750
BL (0°-30°)	1581.5	6.7	B3/2500		
BM (30°-60°)	3960.3	16.8	B3/5000		
BH (60°-80°)	1661.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	98.2	0.4			G1/100
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



REPORT NUMBER: P940452

CATALOG NUMBER: GALN-SB3C-740-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2694.7	2694.7	2694.7	2694.7	2694.7	2694.7	2694.7	2694.7	2694.7	2694.7
2.5°	2653.4	2668.4	2664.7	2659.7	2659.7	2660.9	2659.7	2668.4	2677.2	2685.9
5°	2680.9	2695.9	2688.4	2682.2	2677.2	2675.9	2672.2	2670.9	2675.9	2687.2
7.5°	2734.7	2749.7	2738.4	2727.2	2717.2	2712.2	2707.2	2699.7	2695.9	2702.2
10°	2794.7	2809.7	2795.9	2775.9	2759.7	2753.4	2748.4	2740.9	2735.9	2739.7
12.5°	2854.7	2869.7	2850.9	2823.4	2802.2	2798.4	2792.2	2789.7	2788.4	2787.2
15°	2910.9	2923.4	2899.7	2867.2	2844.7	2838.4	2832.2	2835.9	2842.2	2849.7
17.5°	2954.7	2967.2	2932.2	2889.7	2868.4	2865.9	2862.2	2874.7	2892.2	2910.9
20°	2994.7	3007.2	2962.2	2904.7	2879.7	2879.7	2880.9	2907.2	2932.2	2959.7
22.5°	3050.9	3060.9	3005.9	2927.2	2890.9	2893.4	2903.4	2929.7	2960.9	2998.4
25°	3134.6	3142.1	3074.6	2969.7	2928.4	2935.9	2944.7	2957.2	2987.2	3030.9
27.5°	3269.6	3275.9	3187.1	3044.6	2982.2	2994.7	3007.2	2998.4	3012.2	3049.6
30°	3459.6	3463.4	3350.9	3162.1	3073.4	3079.6	3082.1	3045.9	3019.7	3049.6
32.5°	3684.6	3683.3	3549.6	3304.6	3177.1	3170.9	3149.6	3078.4	3017.2	3043.4
35°	4033.3	4019.5	3847.1	3504.6	3294.6	3255.9	3205.9	3114.6	3029.7	3037.1
37.5°	4610.7	4568.2	4329.5	3832.1	3469.6	3370.9	3297.1	3173.4	3057.1	3034.6
40°	5261.9	5208.1	4945.7	4280.8	3732.1	3573.3	3454.6	3257.1	3102.1	3045.9
42.5°	6034.3	5958.1	5675.6	4809.4	4064.5	3834.6	3655.8	3363.4	3168.4	3082.1
45°	6982.9	6881.7	6481.8	5405.6	4483.2	4177.0	3938.3	3524.6	3269.6	3152.1
47.5°	7941.6	7966.6	7397.9	6088.0	4985.7	4599.5	4292.0	3767.1	3417.1	3264.6
50°	8960.2	8977.7	8309.0	6844.2	5555.6	5076.9	4689.5	4038.3	3622.1	3424.6
52.5°	9755.1	9757.6	9136.4	7635.4	6149.3	5601.9	5118.2	4348.2	3859.6	3637.1
55°	10252.6	10246.3	9716.4	8384.0	6831.7	6153.0	5593.1	4700.7	4149.5	3887.1
57.5°	10613.8	10595.0	10116.3	9027.7	7559.1	6804.2	6130.5	5100.7	4492.0	4184.5
60°	10751.3	10740.0	10387.6	9583.9	8324.0	7524.1	6750.5	5548.1	4880.7	4535.7
62.5°	10803.8	10825.0	10653.8	10122.6	9142.7	8321.5	7431.6	6083.0	5318.1	4933.2
65°	10988.7	11027.5	10992.5	10827.5	10067.6	9255.2	8335.3	6719.2	5795.6	5359.4
67.5°	11354.9	11393.7	11408.7	11671.2	11197.5	10418.8	9462.7	7511.6	6354.3	5801.8
70°	11346.2	11334.9	11599.9	12342.3	12612.3	12029.9	10982.5	8486.5	7020.4	6169.3
72.5°	10327.6	10237.6	10863.7	12334.8	13789.7	13712.2	12838.5	9743.9	7595.4	6214.3
75°	7747.9	7507.9	8614.0	11116.2	13985.9	14667.1	14018.4	10523.8	7459.1	5490.6
77.5°	3313.4	3072.1	4375.7	8229.1	12517.3	13710.9	12936.0	9181.4	5954.3	3630.8
80°	867.4	866.2	1322.3	3730.8	8512.8	10125.1	8882.7	5929.3	3402.1	1297.4
82.5°	358.7	350.0	486.2	1451.1	4159.5	5681.8	4637.0	2644.7	1228.6	351.2
85°	133.7	132.5	236.2	501.2	1467.3	2343.5	1696.1	676.2	306.2	171.2
87.5°	37.5	36.2	51.2	173.7	357.5	542.4	290.0	111.2	86.2	67.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940452
 CATALOG NUMBER: GALN-SB3C-740-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2694.7	0°	2694.7	2694.7	2694.7	2694.7	2694.7	2694.7	2694.7	2694.7	2694.7	2694.7
2699.7	2.5°	2703.4	2709.7	2720.9	2729.7	2740.9	2753.4	2770.9	2782.2	2793.4	2800.9
2705.9	5°	2714.7	2728.4	2757.2	2785.9	2819.7	2850.9	2887.2	2913.4	2934.7	2940.9
2728.4	7.5°	2739.7	2762.2	2810.9	2859.7	2913.4	2964.7	3017.2	3062.1	3098.4	3112.1
2768.4	10°	2783.4	2813.4	2882.2	2950.9	3022.2	3100.9	3168.4	3233.4	3284.6	3305.9
2815.9	12.5°	2838.4	2875.9	2965.9	3060.9	3159.6	3268.4	3355.9	3435.9	3499.6	3528.3
2882.2	15°	2909.7	2958.4	3073.4	3200.9	3345.9	3497.1	3608.3	3697.1	3768.3	3803.3
2950.9	17.5°	2987.2	3052.1	3197.1	3389.6	3597.1	3795.8	3925.8	3990.8	4064.5	4098.3
3014.7	20°	3062.1	3142.1	3349.6	3629.6	3905.8	4117.0	4222.0	4239.5	4244.5	4248.3
3074.6	22.5°	3139.6	3247.1	3540.8	3932.0	4228.3	4374.5	4389.5	4314.5	4209.5	4160.8
3133.4	25°	3224.6	3367.1	3790.8	4265.8	4505.7	4523.2	4408.2	4225.8	4027.0	3935.8
3180.9	27.5°	3307.1	3505.8	4090.8	4584.5	4705.7	4552.0	4304.5	4045.8	3805.8	3709.6
3214.6	30°	3389.6	3664.6	4422.0	4863.2	4796.9	4480.7	4140.8	3852.1	3610.8	3509.6
3244.6	32.5°	3473.3	3849.6	4803.2	5064.4	4780.7	4329.5	3937.0	3634.6	3422.1	3315.9
3270.9	35°	3568.3	4077.0	5164.4	5174.4	4672.0	4107.0	3668.3	3374.6	3189.6	3104.6
3302.1	37.5°	3692.1	4365.7	5483.1	5201.9	4482.0	3780.8	3334.6	3067.1	2914.7	2875.9
3348.4	40°	3845.8	4713.2	5726.8	5158.2	4200.8	3384.6	2969.7	2755.9	2669.7	2678.4
3410.9	42.5°	4045.8	5101.9	5898.1	5045.7	3809.6	2975.9	2649.7	2554.7	2596.0	2630.9
3504.6	45°	4305.8	5505.6	6004.3	4854.4	3367.1	2629.7	2461.0	2483.5	2514.7	2518.5
3655.8	47.5°	4638.2	5914.3	6074.3	4565.7	2915.9	2386.0	2341.0	2346.0	2339.7	2313.5
3882.1	50°	5053.2	6311.8	6136.8	4183.3	2532.2	2233.5	2173.5	2156.0	2069.8	1984.8
4183.3	52.5°	5525.6	6676.7	6163.0	3708.3	2233.5	2106.0	2008.5	1898.5	1737.3	1711.1
4562.0	55°	6050.6	7014.2	6095.5	3124.6	1982.3	1942.3	1794.8	1662.3	1644.8	1622.3
5060.7	57.5°	6678.0	7377.9	5958.1	2473.5	1724.8	1751.0	1607.3	1622.3	1591.1	1556.1
5701.8	60°	7364.2	7754.1	5716.8	1879.8	1458.6	1512.3	1558.6	1557.3	1548.6	1519.8
6378.0	62.5°	7981.6	8001.6	5241.9	1439.8	1224.9	1327.3	1453.6	1452.3	1444.8	1428.6
7084.2	65°	8349.0	7964.1	4449.5	1133.6	1032.4	1174.9	1311.1	1321.1	1322.3	1321.1
7615.4	67.5°	8284.0	7525.4	3362.1	902.4	873.6	1019.9	1169.9	1183.6	1193.6	1196.1
7682.9	70°	7549.1	6561.7	2192.2	719.9	732.4	883.6	1036.1	1049.9	1058.6	1068.6
6666.7	72.5°	5884.3	4824.4	1254.9	582.4	608.7	766.2	903.6	919.9	924.9	943.6
4639.5	75°	3585.8	2837.2	677.4	458.7	499.9	654.9	772.4	791.2	799.9	822.4
2278.5	77.5°	1704.8	1228.6	386.2	357.5	402.5	534.9	652.4	673.7	649.9	662.4
628.7	80°	576.2	456.2	243.7	272.5	307.5	417.5	522.4	543.7	493.7	491.2
208.7	82.5°	201.2	185.0	155.0	181.2	198.7	298.7	395.0	422.5	367.5	366.2
93.7	85°	78.7	75.0	86.2	98.7	118.7	183.7	260.0	273.7	226.2	182.5
27.5	87.5°	16.2	17.5	21.2	22.5	36.2	63.7	93.7	115.0	91.2	77.5
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>
2694.7
2795.9
2943.4
3113.4
3307.1
3528.3
3800.8
4097.0
4258.3
4174.5
3949.5
3720.8
3520.8
3329.6
3123.4
2903.4
2708.4
2663.4
2543.5
2333.5
1996.0
1719.8
1626.1
1549.8
1509.8
1422.3
1321.1
1198.6
1073.6
951.1
824.9
652.4
486.2
348.7
180.0
71.2
0.0

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