

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: P941922

Luminaire Tested: **GALN-SB5C-940-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941922  
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-SB5C-940-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

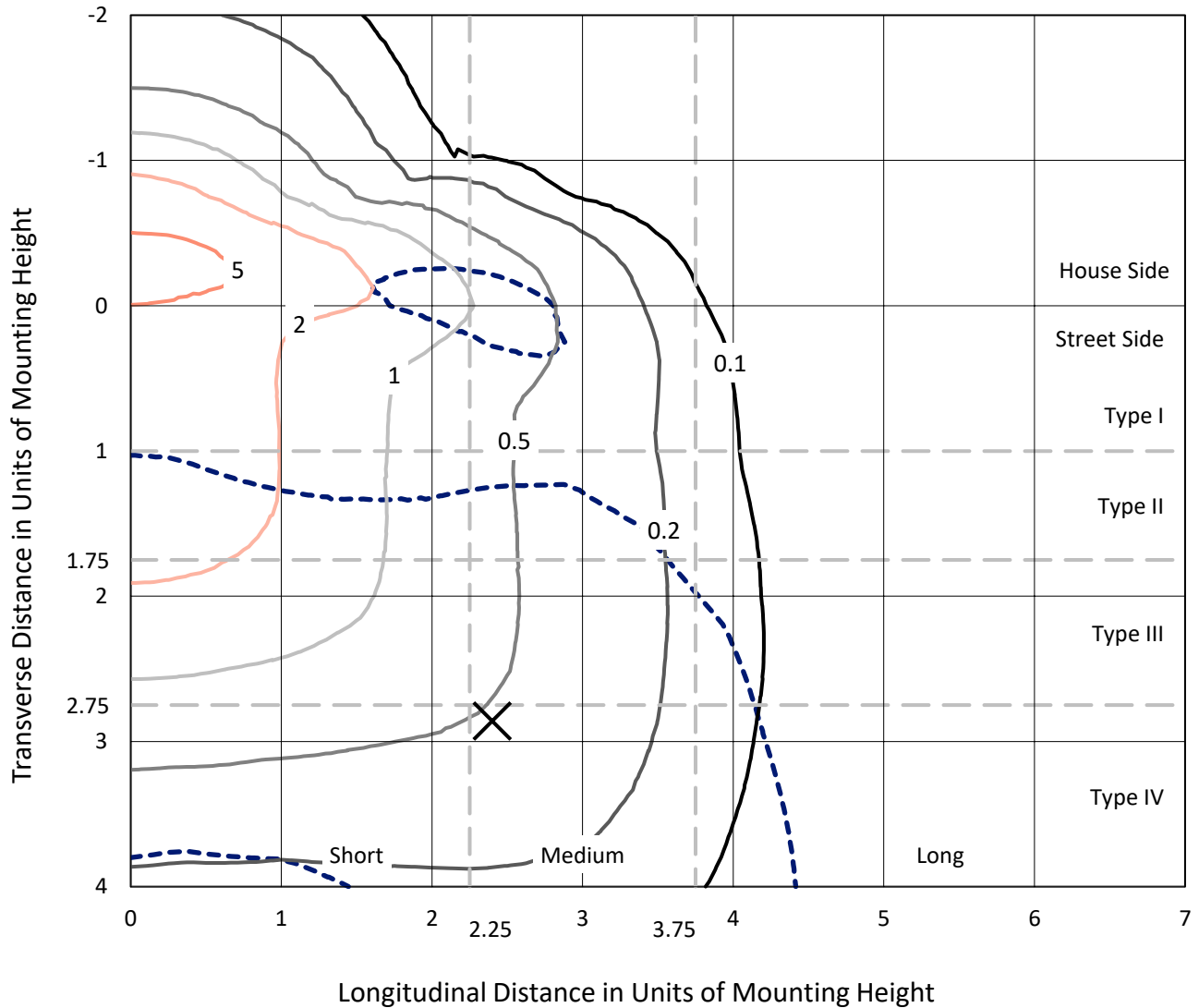
Lumens per Lamp: N/A  
Luminaire Lumens: 27174 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

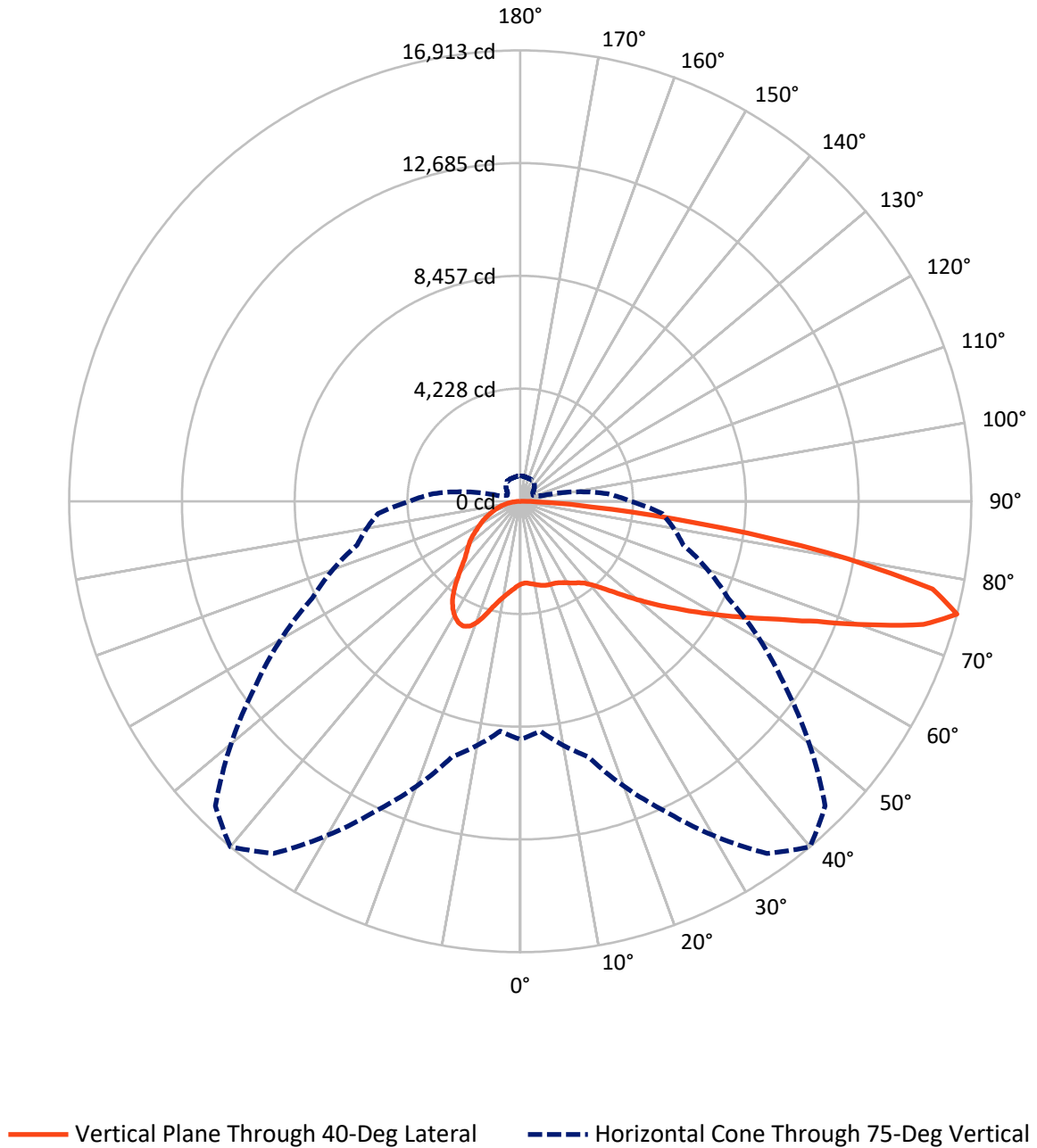
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8419.4	0.0	8419.4
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	18754.6	0.0	18754.6
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	27174.0	0.0	27174.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.2	1.1
10°-20°	1041.4	3.8
20°-30°	1901.5	7.0
30°-40°	2696.9	9.9
40°-50°	3641.6	13.4
50°-60°	4898.9	18.0
60°-70°	6217.8	22.9
70°-80°	5643.1	20.8
80°-90°	822.6	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°	27174.0	100.0
0°-180°	27174.0	100.0



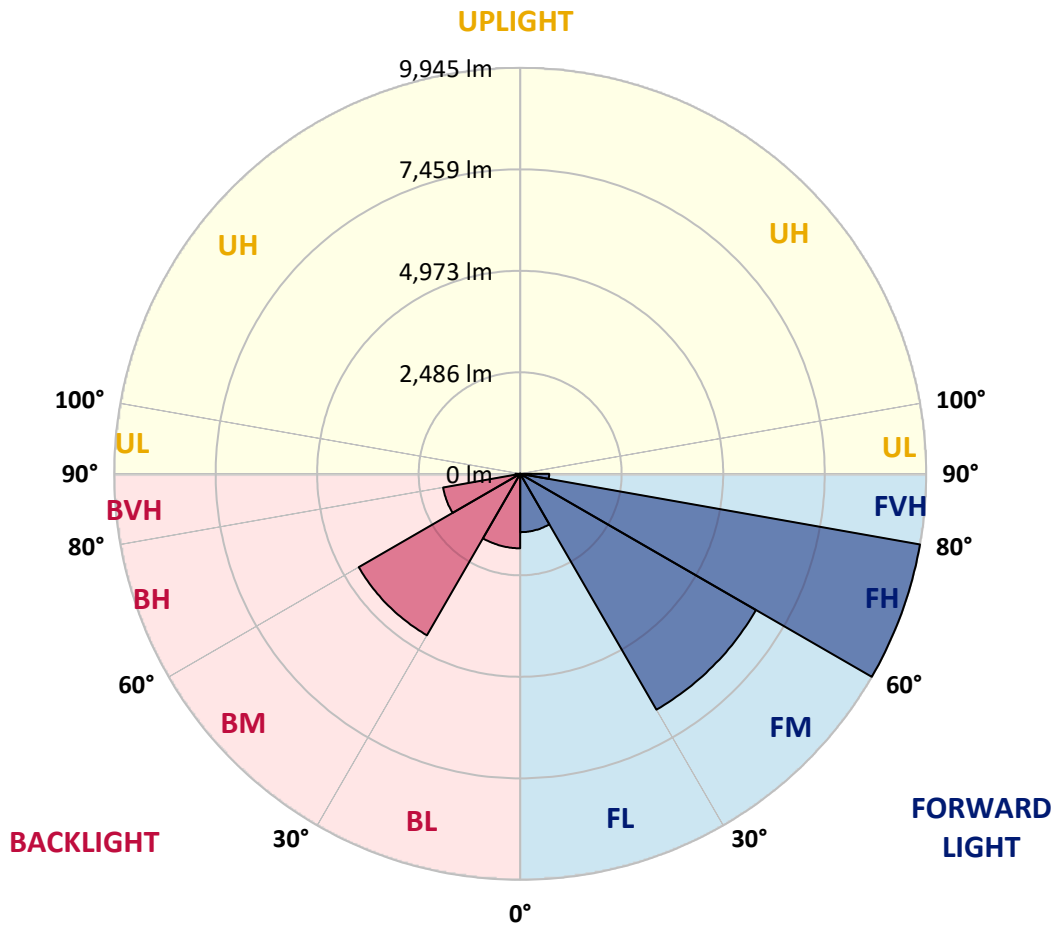
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1429.4	5.3			
FM (30°-60°)	6670.6	24.5			
FH (60°-80°)	9945.3	36.6			G4/12000
FVH (80°-90°)	709.3	2.6			G4/750
BL (0°-30°)	1823.7	6.7	B3/2500		
BM (30°-60°)	4566.8	16.8	B3/5000		
BH (60°-80°)	1915.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	113.3	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°	3107.4	3107.4	3107.4	3107.4	3107.4	3107.4	3107.4	3107.4	3107.4	3107.4
2.5°	3059.8	3077.1	3072.8	3067.0	3067.0	3068.5	3067.0	3077.1	3087.2	3097.3
5°	3091.5	3108.8	3100.2	3093.0	3087.2	3085.8	3081.4	3080.0	3085.8	3098.7
7.5°	3153.5	3170.8	3157.8	3144.9	3133.3	3127.6	3121.8	3113.1	3108.8	3116.0
10°	3222.7	3240.0	3224.1	3201.1	3182.3	3175.1	3169.4	3160.7	3154.9	3159.3
12.5°	3291.9	3309.2	3287.5	3255.8	3231.3	3227.0	3219.8	3216.9	3215.5	3214.0
15°	3356.7	3371.1	3343.8	3306.3	3280.3	3273.1	3265.9	3270.2	3277.5	3286.1
17.5°	3407.2	3421.6	3381.2	3332.2	3307.7	3304.8	3300.5	3314.9	3335.1	3356.7
20°	3453.3	3467.7	3415.8	3349.5	3320.7	3320.7	3322.1	3352.4	3381.2	3412.9
22.5°	3518.1	3529.7	3466.3	3375.5	3333.7	3336.5	3348.1	3378.3	3414.4	3457.6
25°	3614.7	3623.4	3545.5	3424.5	3376.9	3385.5	3395.6	3410.1	3444.6	3495.1
27.5°	3770.4	3777.6	3675.2	3510.9	3438.9	3453.3	3467.7	3457.6	3473.5	3516.7
30°	3989.4	3993.8	3864.1	3646.4	3544.1	3551.3	3554.2	3512.4	3482.1	3516.7
32.5°	4248.9	4247.4	4093.2	3810.7	3663.7	3656.5	3632.0	3549.9	3479.2	3509.5
35°	4651.0	4635.1	4436.2	4041.3	3799.2	3754.5	3696.9	3591.7	3493.6	3502.3
37.5°	5316.9	5267.9	4992.6	4418.9	4001.0	3887.1	3802.1	3659.4	3525.4	3499.4
40°	6067.8	6005.8	5703.1	4936.4	4303.6	4120.6	3983.7	3756.0	3577.2	3512.4
42.5°	6958.5	6870.5	6544.8	5546.0	4687.0	4421.8	4215.7	3878.5	3653.6	3554.2
45°	8052.4	7935.6	7474.4	6233.5	5169.8	4816.7	4541.4	4064.4	3770.4	3634.9
47.5°	9157.8	9186.7	8530.9	7020.4	5749.2	5303.9	4949.3	4344.0	3940.4	3764.6
50°	10332.5	10352.7	9581.6	7892.4	6406.5	5854.4	5407.7	4656.8	4176.8	3949.1
52.5°	11249.1	11252.0	10535.7	8804.7	7091.1	6459.8	5902.0	5014.2	4450.6	4194.1
55°	11822.8	11815.6	11204.5	9668.1	7878.0	7095.4	6449.7	5420.6	4785.0	4482.4
57.5°	12239.3	12217.7	11665.7	10410.3	8716.8	7846.3	7069.4	5881.8	5179.9	4825.4
60°	12397.8	12384.9	11978.4	11051.7	9598.9	8676.5	7784.3	6397.8	5628.2	5230.4
62.5°	12458.4	12482.9	12285.4	11672.9	10542.9	9596.0	8569.8	7014.7	6132.6	5688.7
65°	12671.7	12716.3	12676.0	12485.7	11609.4	10672.6	9611.8	7748.3	6683.2	6180.2
67.5°	13094.0	13138.6	13155.9	13458.6	12912.4	12014.4	10911.9	8662.0	7327.4	6690.4
70°	13083.9	13070.9	13376.4	14232.6	14543.9	13872.2	12664.5	9786.2	8095.6	7114.1
72.5°	11909.2	11805.5	12527.5	14223.9	15901.6	15812.2	14804.7	11236.2	8758.6	7166.0
75°	8934.4	8657.7	9933.2	12818.7	16127.8	16913.3	16165.3	12135.5	8601.5	6331.5
77.5°	3820.8	3542.6	5045.9	9489.3	14434.3	15810.8	14917.2	10587.6	6866.2	4186.9
80°	1000.2	998.8	1524.9	4302.2	9816.5	11675.7	10243.1	6837.4	3923.1	1496.0
82.5°	413.6	403.6	560.7	1673.3	4796.6	6552.0	5347.1	3049.7	1416.8	405.0
85°	154.2	152.8	272.4	578.0	1692.1	2702.4	1955.8	779.7	353.1	197.5
87.5°	43.2	41.8	59.1	200.3	412.2	625.5	334.4	128.3	99.4	77.8
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°
3107.4	0°	3107.4	3107.4	3107.4	3107.4	3107.4	3107.4	3107.4	3107.4	3107.4	3107.4
3113.1	2.5°	3117.5	3124.7	3137.6	3147.7	3160.7	3175.1	3195.3	3208.3	3221.2	3229.9
3120.4	5°	3130.4	3146.3	3179.4	3212.6	3251.5	3287.5	3329.3	3359.6	3384.1	3391.3
3146.3	7.5°	3159.3	3185.2	3241.4	3297.6	3359.6	3418.7	3479.2	3531.1	3572.9	3588.8
3192.4	10°	3209.7	3244.3	3323.6	3402.8	3485.0	3575.8	3653.6	3728.6	3787.7	3812.2
3247.2	12.5°	3273.1	3316.4	3420.1	3529.7	3643.5	3768.9	3869.8	3962.1	4035.6	4068.7
3323.6	15°	3355.3	3411.5	3544.1	3691.1	3858.3	4032.7	4161.0	4263.3	4345.4	4385.8
3402.8	17.5°	3444.6	3519.6	3686.8	3908.7	4148.0	4377.1	4527.0	4602.0	4687.0	4725.9
3476.3	20°	3531.1	3623.4	3862.6	4185.5	4504.0	4747.6	4868.6	4888.8	4894.6	4898.9
3545.5	22.5°	3620.5	3744.4	4083.1	4534.2	4875.8	5044.5	5061.7	4975.3	4854.2	4798.0
3613.3	25°	3718.5	3882.8	4371.4	4919.1	5195.8	5216.0	5083.4	4872.9	4643.8	4538.6
3668.0	27.5°	3813.6	4042.8	4717.3	5286.6	5426.4	5249.1	4963.7	4665.4	4388.7	4277.7
3707.0	30°	3908.7	4225.8	5099.2	5608.0	5531.6	5167.0	4774.9	4442.0	4163.8	4047.1
3741.5	32.5°	4005.3	4439.1	5538.8	5840.0	5512.9	4992.6	4540.0	4191.2	3946.2	3823.7
3771.8	35°	4114.8	4701.4	5955.3	5966.9	5387.5	4736.0	4230.1	3891.4	3678.1	3580.1
3807.8	37.5°	4257.5	5034.4	6322.9	5998.6	5168.4	4359.8	3845.3	3536.9	3361.0	3316.4
3861.2	40°	4434.8	5435.0	6603.9	5948.1	4844.1	3903.0	3424.5	3178.0	3078.6	3088.6
3933.2	42.5°	4665.4	5883.3	6801.4	5818.4	4393.0	3431.7	3055.5	2946.0	2993.5	3033.9
4041.3	45°	4965.2	6348.8	6923.9	5597.9	3882.8	3032.4	2837.9	2863.8	2899.8	2904.2
4215.7	47.5°	5348.6	6820.1	7004.6	5265.0	3362.5	2751.4	2699.5	2705.3	2698.1	2667.8
4476.6	50°	5827.1	7278.4	7076.6	4823.9	2920.0	2575.6	2506.4	2486.2	2386.7	2288.7
4823.9	52.5°	6371.9	7699.3	7106.9	4276.3	2575.6	2428.5	2316.1	2189.3	2003.4	1973.1
5260.6	55°	6977.2	8088.4	7029.1	3603.2	2285.9	2239.7	2069.7	1916.9	1896.7	1870.8
5835.7	57.5°	7700.7	8507.8	6870.5	2852.3	1989.0	2019.2	1853.5	1870.8	1834.7	1794.4
6575.1	60°	8492.0	8941.7	6592.4	2167.7	1682.0	1743.9	1797.3	1795.8	1785.7	1752.6
7354.8	62.5°	9204.0	9227.0	6044.7	1660.3	1412.4	1530.6	1676.2	1674.8	1666.1	1647.4
8169.1	65°	9627.7	9183.8	5130.9	1307.2	1190.5	1354.8	1511.9	1523.4	1524.9	1523.4
8781.7	67.5°	9552.8	8677.9	3877.0	1040.6	1007.4	1176.1	1349.0	1364.9	1376.4	1379.3
8859.5	70°	8705.3	7566.7	2528.0	830.2	844.6	1019.0	1194.8	1210.7	1220.8	1232.3
7687.7	72.5°	6785.5	5563.3	1447.0	671.6	701.9	883.5	1042.0	1060.8	1066.5	1088.2
5350.0	75°	4135.0	3271.7	781.2	528.9	576.5	755.2	890.7	912.3	922.4	948.4
2627.4	77.5°	1965.9	1416.8	445.4	412.2	464.1	616.9	752.3	776.8	749.5	763.9
725.0	80°	664.4	526.1	281.0	314.2	354.6	481.4	602.5	627.0	569.3	566.4
240.7	82.5°	232.0	213.3	178.7	209.0	229.2	344.5	455.4	487.2	423.7	422.3
108.1	85°	90.8	86.5	99.4	113.9	136.9	211.9	299.8	315.6	260.9	210.4
31.7	87.5°	18.7	20.2	24.5	25.9	41.8	73.5	108.1	132.6	105.2	89.4
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>
3107.4
3224.1
3394.2
3590.2
3813.6
4068.7
4382.9
4724.5
4910.4
4813.8
4554.4
4290.7
4060.1
3839.5
3601.7
3348.1
3123.2
3071.4
2933.0
2690.9
2301.7
1983.2
1875.1
1787.2
1741.1
1640.2
1523.4
1382.2
1238.1
1096.8
951.2
752.3
560.7
402.1
207.5
82.2
0.0

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