

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: P942142

Luminaire Tested: **GALN-SB6A-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942142
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-SB6A-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 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: 26964 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

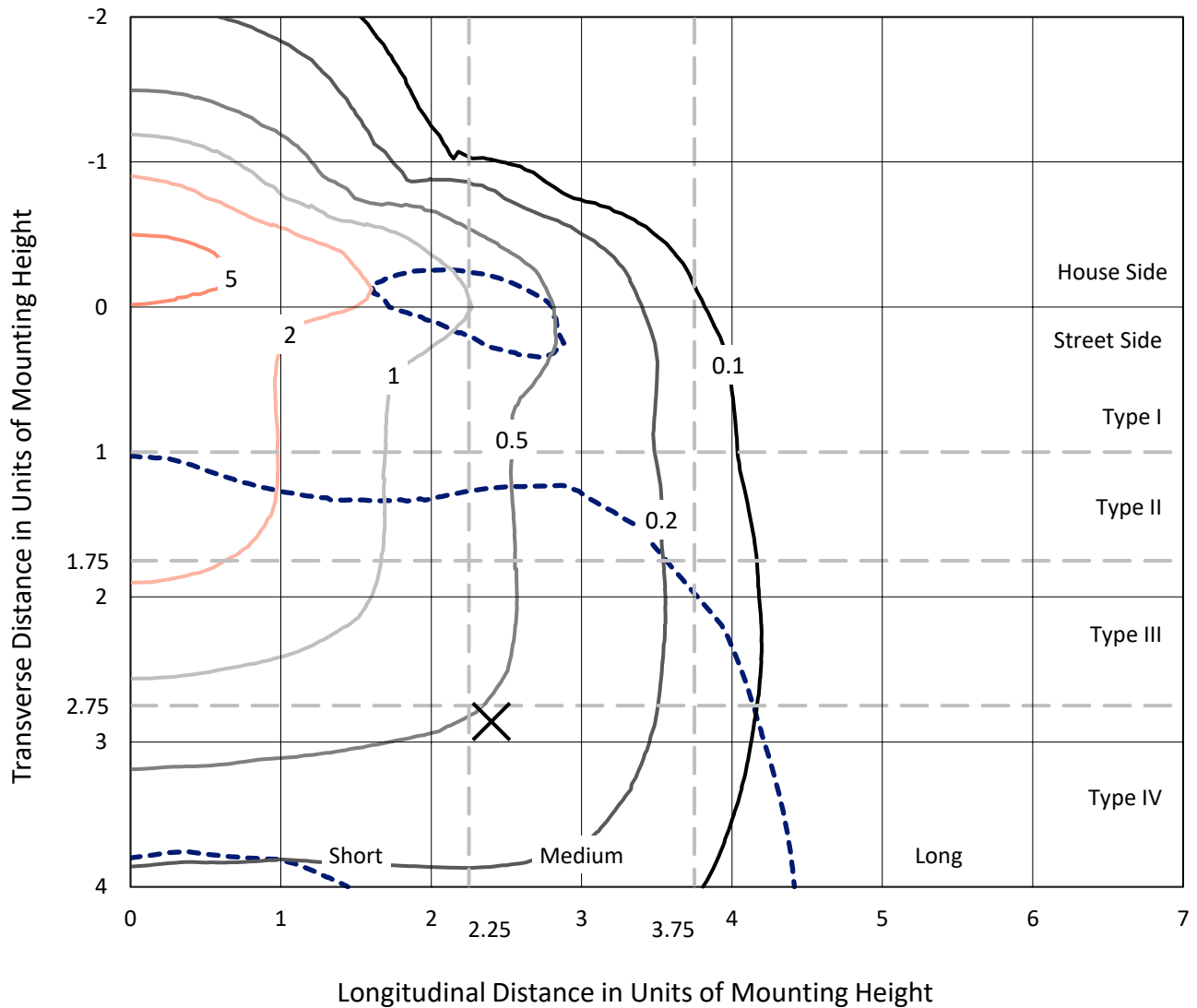
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

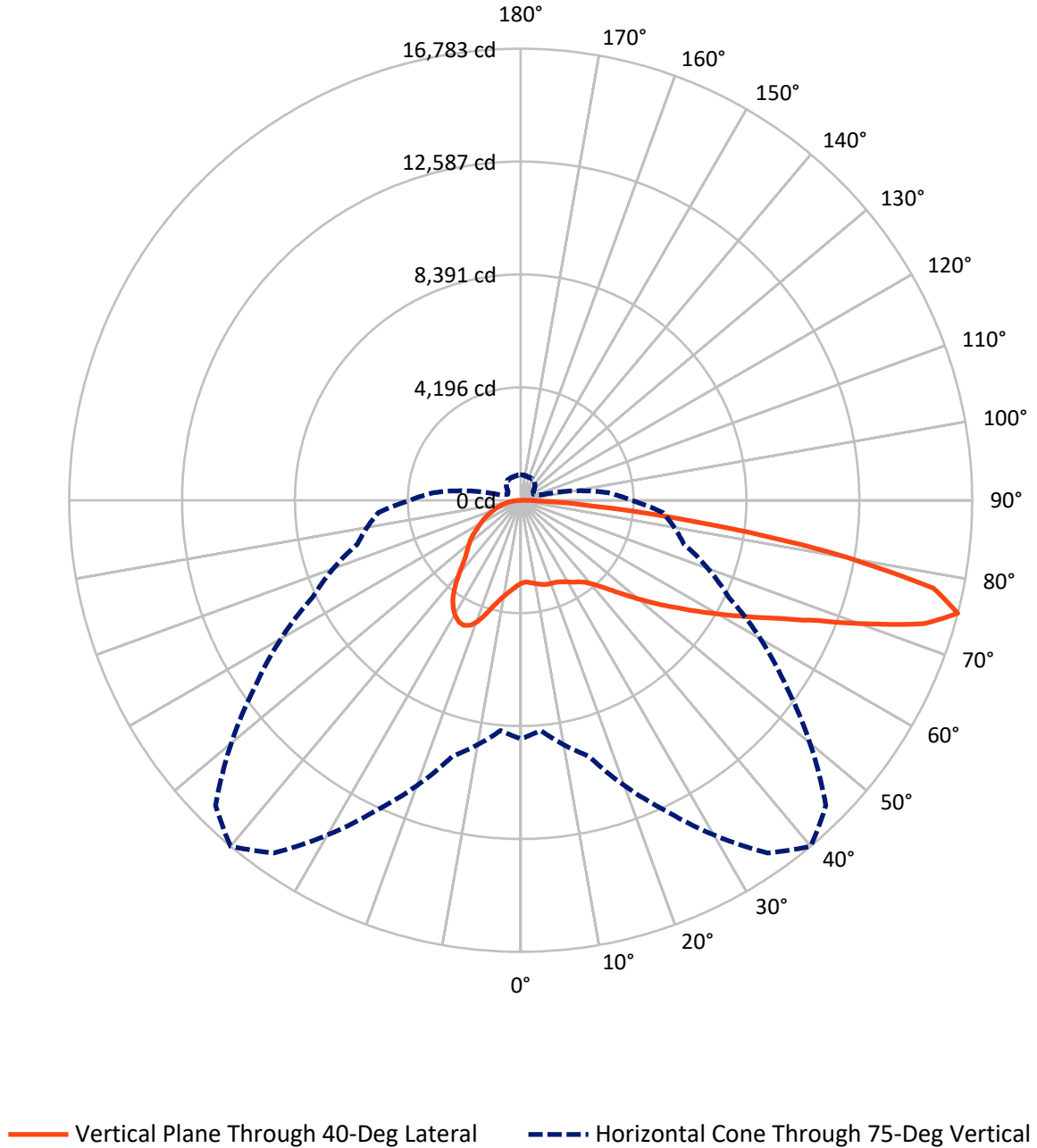
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	8354.4	0.0	8354.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	18609.7	0.0	18609.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	26964.0	0.0	26964.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.8	1.1
10°-20°	1033.4	3.8
20°-30°	1886.8	7.0
30°-40°	2676.0	9.9
40°-50°	3613.4	13.4
50°-60°	4861.1	18.0
60°-70°	6169.8	22.9
70°-80°	5599.5	20.8
80°-90°	816.2	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°	26964.0	100.0
0°-180°	26964.0	100.0



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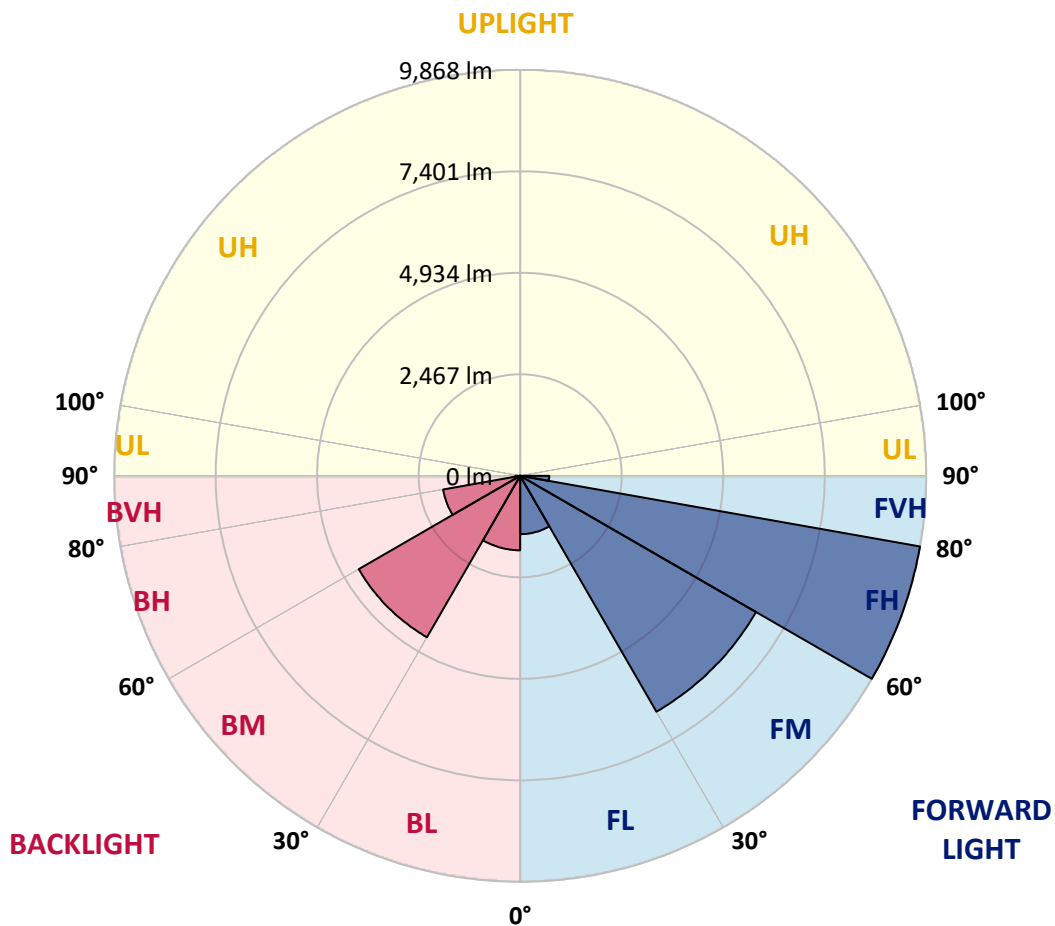
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.3	5.3			
FM (30°-60°)	6619.1	24.5			
FH (60°-80°)	9868.4	36.6			G4/12000
FVH (80°-90°)	703.9	2.6			G4/750
BL (0°-30°)	1809.6	6.7	B3/2500		
BM (30°-60°)	4531.5	16.8	B3/5000		
BH (60°-80°)	1900.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	112.4	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°	3083.4	3083.4	3083.4	3083.4	3083.4	3083.4	3083.4	3083.4	3083.4	3083.4
2.5°	3036.2	3053.3	3049.0	3043.3	3043.3	3044.8	3043.3	3053.3	3063.3	3073.4
5°	3067.6	3084.8	3076.2	3069.1	3063.3	3061.9	3057.6	3056.2	3061.9	3074.8
7.5°	3129.1	3146.3	3133.4	3120.6	3109.1	3103.4	3097.7	3089.1	3084.8	3092.0
10°	3197.8	3214.9	3199.2	3176.3	3157.7	3150.6	3144.9	3136.3	3130.6	3134.9
12.5°	3266.4	3283.6	3262.1	3230.7	3206.4	3202.1	3194.9	3192.1	3190.6	3189.2
15°	3330.8	3345.1	3317.9	3280.7	3255.0	3247.8	3240.7	3245.0	3252.1	3260.7
17.5°	3380.8	3395.1	3355.1	3306.5	3282.2	3279.3	3275.0	3289.3	3309.3	3330.8
20°	3426.6	3440.9	3389.4	3323.6	3295.0	3295.0	3296.5	3326.5	3355.1	3386.6
22.5°	3491.0	3502.4	3439.5	3349.4	3307.9	3310.8	3322.2	3352.2	3388.0	3430.9
25°	3586.8	3595.4	3518.1	3398.0	3350.8	3359.4	3369.4	3383.7	3418.0	3468.1
27.5°	3741.2	3748.4	3646.8	3483.8	3412.3	3426.6	3440.9	3430.9	3446.6	3489.5
30°	3958.6	3962.9	3834.2	3618.2	3516.7	3523.9	3526.7	3485.2	3455.2	3489.5
32.5°	4216.0	4214.6	4061.6	3781.3	3635.4	3628.3	3603.9	3522.4	3452.3	3482.4
35°	4615.0	4599.3	4402.0	4010.1	3769.8	3725.5	3668.3	3563.9	3466.6	3475.2
37.5°	5275.8	5227.1	4954.0	4384.8	3970.1	3857.1	3772.7	3631.1	3498.1	3472.4
40°	6020.9	5959.4	5659.0	4898.2	4270.4	4088.8	3952.9	3726.9	3549.6	3485.2
42.5°	6904.7	6817.4	6494.2	5503.2	4650.8	4387.7	4183.1	3848.5	3625.4	3526.7
45°	7990.2	7874.3	7416.7	6185.3	5129.9	4779.5	4506.4	4033.0	3741.2	3606.8
47.5°	9087.1	9115.7	8465.0	6966.2	5704.8	5262.9	4911.1	4310.4	3910.0	3735.5
50°	10252.6	10272.7	9507.5	7831.4	6356.9	5809.2	5365.9	4620.8	4144.5	3918.6
52.5°	11162.2	11165.1	10454.3	8736.7	7036.3	6409.9	5856.4	4975.4	4416.3	4161.7
55°	11731.4	11724.2	11117.9	9593.3	7817.1	7040.6	6399.9	5378.7	4748.0	4447.7
57.5°	12144.7	12123.2	11575.5	10329.9	8649.5	7785.7	7014.8	5836.4	5139.9	4788.1
60°	12302.0	12289.1	11885.8	10966.3	9524.7	8609.4	7724.2	6348.4	5584.7	5190.0
62.5°	12362.1	12386.4	12190.5	11582.7	10461.4	9521.8	8503.6	6960.5	6085.2	5644.7
65°	12573.7	12618.1	12578.0	12389.3	11519.7	10590.1	9537.6	7688.4	6631.5	6132.4
67.5°	12992.8	13037.1	13054.3	13354.6	12812.6	11921.6	10827.5	8595.1	7270.8	6638.7
70°	12982.8	12969.9	13273.1	14122.6	14431.5	13765.0	12566.6	9710.6	8033.1	7059.1
72.5°	11817.2	11714.2	12430.7	14114.0	15778.7	15690.0	14690.3	11149.3	8690.9	7110.6
75°	8865.4	8590.8	9856.5	12719.6	16003.2	16782.6	16040.4	12041.7	8535.0	6282.6
77.5°	3791.3	3515.3	5006.9	9416.0	14322.8	15688.6	14801.9	10505.8	6813.2	4154.5
80°	992.5	991.1	1513.1	4269.0	9740.6	11585.5	10164.0	6784.6	3892.8	1484.5
82.5°	410.4	400.4	556.3	1660.4	4759.5	6501.4	5305.8	3026.2	1405.8	401.9
85°	153.0	151.6	270.3	573.5	1679.0	2681.5	1940.7	773.7	350.4	195.9
87.5°	42.9	41.5	58.6	198.8	409.0	620.7	331.8	127.3	98.7	77.2
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°
3083.4	0°	3083.4	3083.4	3083.4	3083.4	3083.4	3083.4	3083.4	3083.4	3083.4	3083.4
3089.1	2.5°	3093.4	3100.5	3113.4	3123.4	3136.3	3150.6	3170.6	3183.5	3196.3	3204.9
3096.2	5°	3106.3	3122.0	3154.9	3187.8	3226.4	3262.1	3303.6	3333.6	3358.0	3365.1
3122.0	7.5°	3134.9	3160.6	3216.4	3272.1	3333.6	3392.3	3452.3	3503.8	3545.3	3561.0
3167.7	10°	3184.9	3219.2	3297.9	3376.5	3458.1	3548.2	3625.4	3699.8	3758.4	3782.7
3222.1	12.5°	3247.8	3290.7	3393.7	3502.4	3615.4	3739.8	3839.9	3931.4	4004.4	4037.3
3297.9	15°	3329.4	3385.1	3516.7	3662.6	3828.5	4001.5	4128.8	4230.3	4311.9	4351.9
3376.5	17.5°	3418.0	3492.4	3658.3	3878.5	4115.9	4343.3	4492.1	4566.4	4650.8	4689.4
3449.5	20°	3503.8	3595.4	3832.8	4153.1	4469.2	4710.9	4831.0	4851.0	4856.7	4861.0
3518.1	22.5°	3592.5	3715.5	4051.6	4499.2	4838.1	5005.5	5022.6	4936.8	4816.7	4760.9
3585.3	25°	3689.7	3852.8	4337.6	4881.0	5155.6	5175.7	5044.1	4835.3	4607.9	4503.5
3639.7	27.5°	3784.1	4011.5	4680.8	5245.7	5384.5	5208.5	4925.4	4629.3	4354.8	4244.6
3678.3	30°	3878.5	4193.2	5059.8	5564.7	5488.9	5127.0	4738.0	4407.7	4131.7	4015.8
3712.6	32.5°	3974.3	4404.8	5496.0	5794.9	5470.3	4954.0	4504.9	4158.8	3915.7	3794.1
3742.7	35°	4083.0	4665.1	5909.3	5920.8	5345.8	4699.4	4197.4	3861.4	3649.7	3552.5
3778.4	37.5°	4224.6	4995.5	6274.0	5952.2	5128.5	4326.2	3815.6	3509.5	3335.1	3290.7
3831.3	40°	4400.5	5393.0	6552.9	5902.2	4806.7	3872.8	3398.0	3153.4	3054.8	3064.8
3902.8	42.5°	4629.3	5837.8	6748.8	5773.5	4359.0	3405.1	3031.9	2923.2	2970.4	3010.4
4010.1	45°	4926.8	6299.7	6870.4	5554.6	3852.8	3009.0	2815.9	2841.7	2877.4	2881.7
4183.1	47.5°	5307.2	6767.4	6950.5	5224.3	3336.5	2730.1	2678.6	2684.4	2677.2	2647.2
4442.0	50°	5782.0	7222.2	7022.0	4786.7	2897.5	2555.6	2487.0	2467.0	2368.3	2271.1
4786.7	52.5°	6322.6	7639.8	7052.0	4243.2	2555.6	2409.8	2298.2	2172.4	1987.9	1957.9
5220.0	55°	6923.3	8025.9	6974.8	3575.3	2268.2	2222.4	2053.7	1902.1	1882.1	1856.3
5790.6	57.5°	7641.2	8442.1	6817.4	2830.2	1973.6	2003.6	1839.2	1856.3	1820.6	1780.5
6524.3	60°	8426.4	8872.6	6541.4	2150.9	1669.0	1730.5	1783.4	1781.9	1771.9	1739.0
7298.0	62.5°	9132.8	9155.7	5998.0	1647.5	1401.5	1518.8	1663.2	1661.8	1653.2	1634.6
8106.0	65°	9553.3	9112.8	5091.3	1297.1	1181.3	1344.3	1500.2	1511.7	1513.1	1511.7
8713.8	67.5°	9478.9	8610.8	3847.1	1032.6	999.7	1167.0	1338.6	1354.3	1365.8	1368.6
8791.0	70°	8638.0	7508.2	2508.5	823.8	838.1	1011.1	1185.6	1201.3	1211.3	1222.8
7628.3	72.5°	6733.1	5520.3	1435.9	666.4	696.5	876.7	1034.0	1052.6	1058.3	1079.8
5308.7	75°	4103.1	3246.4	775.1	524.9	572.1	749.4	883.8	905.3	915.3	941.0
2607.1	77.5°	1950.7	1405.8	441.9	409.0	460.5	612.1	746.5	770.8	743.7	758.0
719.4	80°	659.3	522.0	278.9	311.8	351.8	477.7	597.8	622.1	564.9	562.0
238.8	82.5°	230.3	211.7	177.3	207.4	227.4	341.8	451.9	483.4	420.5	419.0
107.3	85°	90.1	85.8	98.7	113.0	135.9	210.2	297.5	313.2	258.9	208.8
31.5	87.5°	18.6	20.0	24.3	25.7	41.5	72.9	107.3	131.6	104.4	88.7
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>
3083.4
3199.2
3368.0
3562.5
3784.1
4037.3
4349.0
4688.0
4872.5
4776.6
4519.2
4257.5
4028.7
3809.9
3573.9
3322.2
3099.1
3047.6
2910.3
2670.1
2283.9
1967.9
1860.6
1773.4
1727.6
1627.5
1511.7
1371.5
1228.5
1088.3
943.9
746.5
556.3
399.0
205.9
81.5
0.0

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