

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: P941712

Luminaire Tested: **GALN-SB5B-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941712
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-SB5B-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26970 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

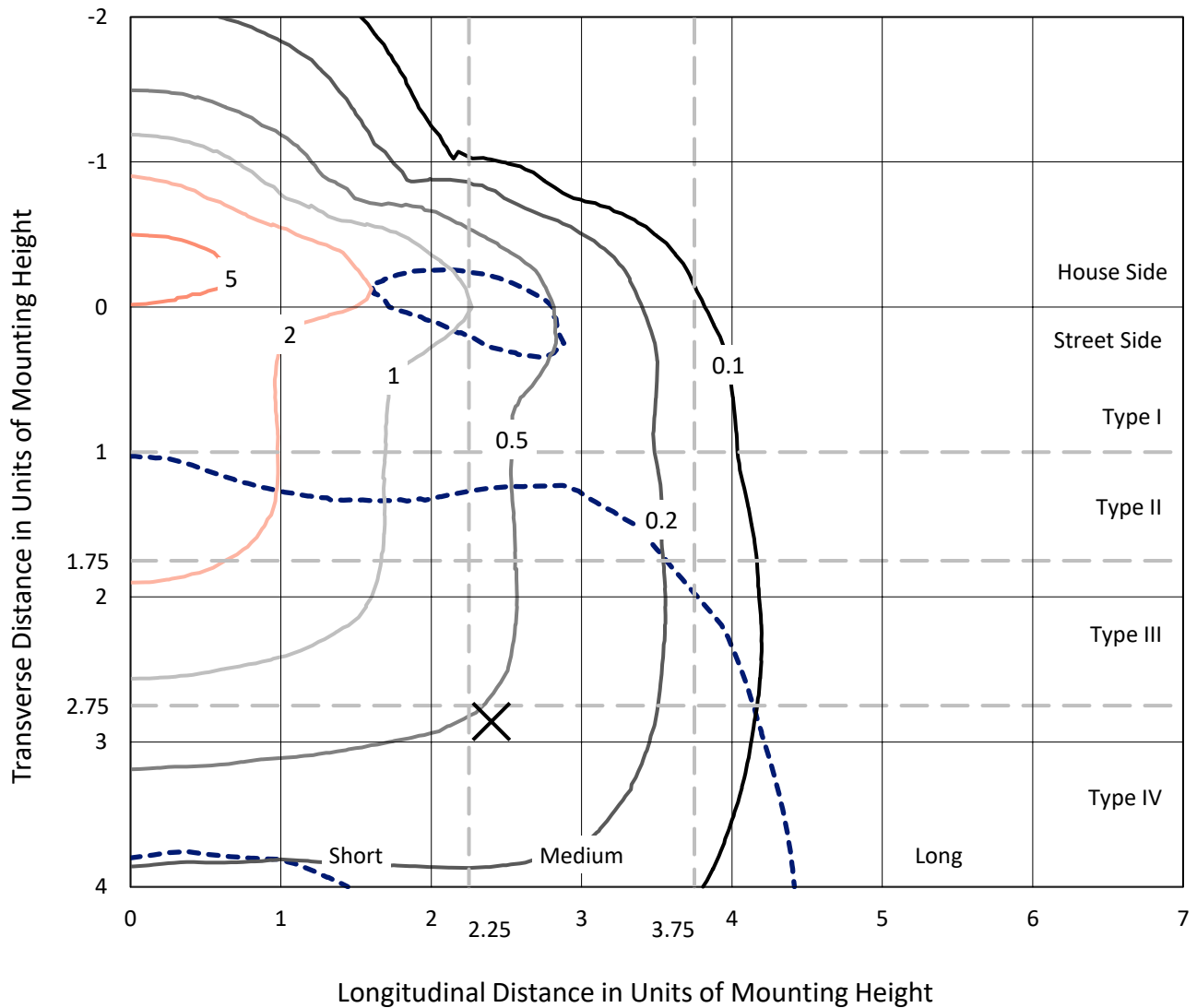
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

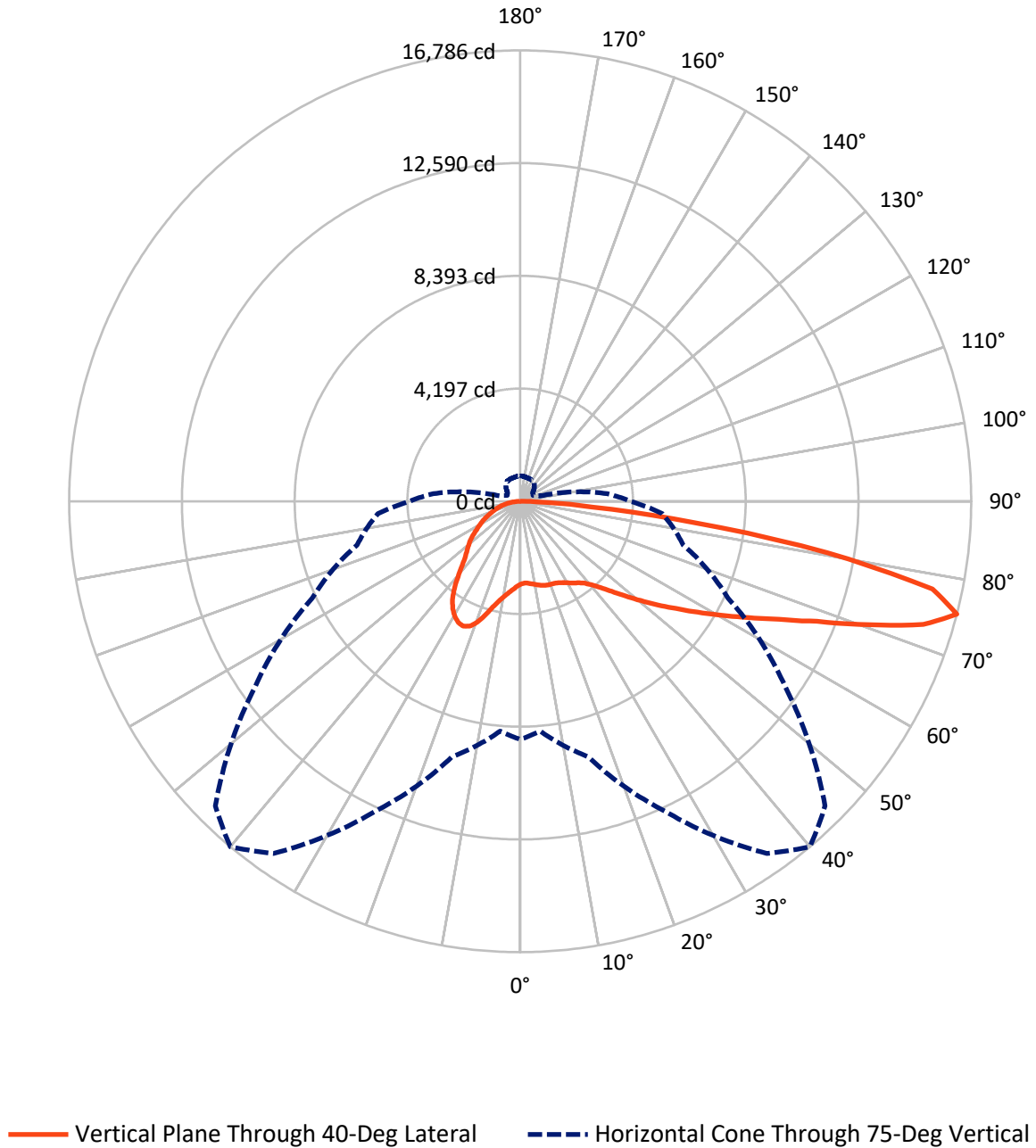
✕ Max cd
 - - - 1/2 Max cd



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	8356.2	0.0	8356.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	18613.8	0.0	18613.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	26970.0	0.0	26970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.9	1.1
10°-20°	1033.6	3.8
20°-30°	1887.2	7.0
30°-40°	2676.6	9.9
40°-50°	3614.3	13.4
50°-60°	4862.1	18.0
60°-70°	6171.2	22.9
70°-80°	5600.7	20.8
80°-90°	816.4	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°	26970.0	100.0
0°-180°	26970.0	100.0

Coefficient of Utilization



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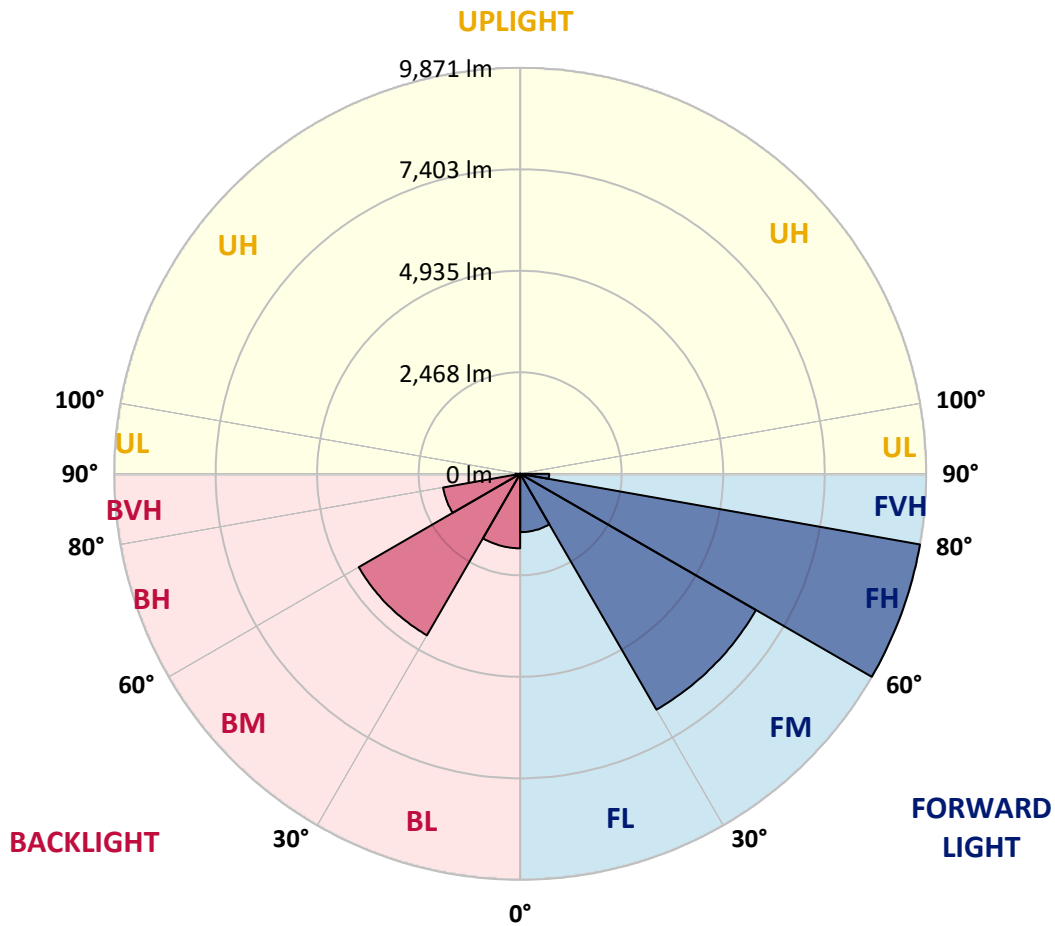
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.6	5.3			
FM (30°-60°)	6620.5	24.5			
FH (60°-80°)	9870.6	36.6			G4/12000
FVH (80°-90°)	704.0	2.6			G4/750
BL (0°-30°)	1810.0	6.7	B3/2500		
BM (30°-60°)	4532.5	16.8	B3/5000		
BH (60°-80°)	1901.3	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°	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1
2.5°	3036.9	3054.0	3049.7	3044.0	3044.0	3045.4	3044.0	3054.0	3064.0	3074.0
5°	3068.3	3085.5	3076.9	3069.8	3064.0	3062.6	3058.3	3056.9	3062.6	3075.5
7.5°	3129.8	3147.0	3134.1	3121.2	3109.8	3104.1	3098.4	3089.8	3085.5	3092.6
10°	3198.5	3215.7	3199.9	3177.0	3158.4	3151.3	3145.6	3137.0	3131.3	3135.6
12.5°	3267.2	3284.3	3262.9	3231.4	3207.1	3202.8	3195.6	3192.8	3191.3	3189.9
15°	3331.5	3345.8	3318.6	3281.5	3255.7	3248.6	3241.4	3245.7	3252.8	3261.4
17.5°	3381.6	3395.9	3355.8	3307.2	3282.9	3280.0	3275.7	3290.0	3310.1	3331.5
20°	3427.4	3441.7	3390.2	3324.4	3295.8	3295.8	3297.2	3327.2	3355.8	3387.3
22.5°	3491.7	3503.2	3440.2	3350.1	3308.6	3311.5	3322.9	3353.0	3388.7	3431.7
25°	3587.6	3596.2	3518.9	3398.8	3351.6	3360.1	3370.1	3384.5	3418.8	3468.8
27.5°	3742.1	3749.2	3647.7	3484.6	3413.1	3427.4	3441.7	3431.7	3447.4	3490.3
30°	3959.5	3963.8	3835.0	3619.0	3517.5	3524.6	3527.5	3486.0	3456.0	3490.3
32.5°	4217.0	4215.5	4062.5	3782.1	3636.2	3629.1	3604.7	3523.2	3453.1	3483.2
35°	4616.1	4600.3	4402.9	4011.0	3770.7	3726.3	3669.1	3564.7	3467.4	3476.0
37.5°	5276.9	5228.3	4955.1	4385.8	3970.9	3857.9	3773.5	3631.9	3498.9	3473.1
40°	6022.2	5960.7	5660.3	4899.3	4271.3	4089.7	3953.8	3727.8	3550.4	3486.0
42.5°	6906.2	6819.0	6495.7	5504.4	4651.8	4388.6	4184.1	3849.3	3626.2	3527.5
45°	7991.9	7876.1	7418.3	6186.7	5131.0	4780.6	4507.4	4033.9	3742.1	3607.6
47.5°	9089.1	9117.7	8466.8	6967.7	5706.1	5264.1	4912.2	4311.4	3910.9	3736.3
50°	10254.9	10274.9	9509.6	7833.2	6358.4	5810.5	5367.1	4621.8	4145.5	3919.4
52.5°	11164.7	11167.5	10456.6	8738.6	7037.8	6411.3	5857.7	4976.5	4417.2	4162.6
55°	11734.0	11726.8	11120.3	9595.5	7818.9	7042.1	6401.3	5379.9	4749.1	4448.7
57.5°	12147.4	12125.9	11578.1	10332.2	8651.4	7787.4	7016.4	5837.7	5141.0	4789.2
60°	12304.8	12291.9	11888.5	10968.7	9526.8	8611.3	7725.9	6349.8	5585.9	5191.1
62.5°	12364.8	12389.1	12193.2	11585.2	10463.8	9524.0	8505.5	6962.0	6086.6	5646.0
65°	12576.5	12620.9	12580.8	12392.0	11522.3	10592.5	9539.7	7690.1	6633.0	6133.8
67.5°	12995.7	13040.0	13057.2	13357.6	12815.4	11924.3	10830.0	8597.0	7272.4	6640.2
70°	12985.6	12972.8	13276.0	14125.7	14434.7	13768.1	12569.4	9712.8	8034.9	7060.7
72.5°	11819.8	11716.8	12433.5	14117.1	15782.2	15693.5	14693.6	11151.8	8692.9	7112.2
75°	8867.4	8592.7	9858.7	12722.4	16006.8	16786.4	16044.0	12044.4	8536.9	6284.0
77.5°	3792.1	3516.1	5008.0	9418.1	14326.0	15692.1	14805.2	10508.1	6814.7	4155.5
80°	992.7	991.3	1513.4	4269.9	9742.8	11588.1	10166.2	6786.1	3893.7	1484.8
82.5°	410.5	400.5	556.4	1660.8	4760.5	6502.8	5307.0	3026.8	1406.1	402.0
85°	153.1	151.6	270.4	573.6	1679.4	2682.1	1941.1	773.9	350.5	196.0
87.5°	42.9	41.5	58.6	198.8	409.1	620.8	331.9	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°
3084.1	0°	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1	3084.1
3089.8	2.5°	3094.1	3101.2	3114.1	3124.1	3137.0	3151.3	3171.3	3184.2	3197.1	3205.6
3096.9	5°	3106.9	3122.7	3155.6	3188.5	3227.1	3262.9	3304.3	3334.4	3358.7	3365.9
3122.7	7.5°	3135.6	3161.3	3217.1	3272.9	3334.4	3393.0	3453.1	3504.6	3546.1	3561.8
3168.5	10°	3185.6	3219.9	3298.6	3377.3	3458.8	3549.0	3626.2	3700.6	3759.2	3783.5
3222.8	12.5°	3248.6	3291.5	3394.5	3503.2	3616.2	3740.6	3840.8	3932.3	4005.3	4038.2
3298.6	15°	3330.1	3385.9	3517.5	3663.4	3829.3	4002.4	4129.7	4231.3	4312.8	4352.9
3377.3	17.5°	3418.8	3493.2	3659.1	3879.4	4116.8	4344.3	4493.1	4567.4	4651.8	4690.5
3450.3	20°	3504.6	3596.2	3833.6	4154.0	4470.2	4711.9	4832.1	4852.1	4857.8	4862.1
3518.9	22.5°	3593.3	3716.3	4052.5	4500.2	4839.2	5006.6	5023.7	4937.9	4817.8	4762.0
3586.1	25°	3690.6	3853.6	4338.6	4882.1	5156.8	5176.8	5045.2	4836.4	4608.9	4504.5
3640.5	27.5°	3785.0	4012.4	4681.9	5246.9	5385.7	5209.7	4926.5	4630.4	4355.7	4245.6
3679.1	30°	3879.4	4194.1	5060.9	5565.9	5490.1	5128.2	4739.1	4408.7	4132.6	4016.7
3713.5	32.5°	3975.2	4405.8	5497.2	5796.2	5471.5	4955.1	4505.9	4159.8	3916.6	3795.0
3743.5	35°	4083.9	4666.1	5910.6	5922.1	5347.0	4700.5	4198.4	3862.2	3650.5	3553.2
3779.3	37.5°	4225.6	4996.6	6275.4	5953.5	5129.6	4327.1	3816.4	3510.3	3335.8	3291.5
3832.2	40°	4401.5	5394.2	6554.3	5903.5	4807.8	3873.7	3398.8	3154.1	3055.4	3065.5
3903.7	42.5°	4630.4	5839.1	6750.3	5774.7	4360.0	3405.9	3032.6	2923.8	2971.0	3011.1
4011.0	45°	4927.9	6301.1	6871.9	5555.9	3853.6	3009.7	2816.6	2842.3	2878.1	2882.4
4184.1	47.5°	5308.4	6768.9	6952.0	5225.4	3337.2	2730.7	2679.2	2685.0	2677.8	2647.8
4443.0	50°	5783.3	7223.8	7023.5	4787.7	2898.1	2556.2	2487.6	2467.5	2368.8	2271.6
4787.7	52.5°	6324.0	7641.5	7053.6	4244.2	2556.2	2410.3	2298.7	2172.9	1988.3	1958.3
5221.2	55°	6924.8	8027.7	6976.3	3576.1	2268.7	2222.9	2054.1	1902.5	1882.5	1856.7
5791.9	57.5°	7642.9	8444.0	6819.0	2830.9	1974.0	2004.1	1839.6	1856.7	1821.0	1780.9
6525.7	60°	8428.2	8874.5	6542.9	2151.4	1669.3	1730.8	1783.8	1782.3	1772.3	1739.4
7299.6	62.5°	9134.9	9157.8	5999.3	1647.9	1401.8	1519.1	1663.6	1662.2	1653.6	1635.0
8107.8	65°	9555.4	9114.8	5092.4	1297.4	1181.6	1344.6	1500.5	1512.0	1513.4	1512.0
8715.7	67.5°	9481.0	8612.8	3847.9	1032.8	999.9	1167.2	1338.9	1354.6	1366.1	1368.9
8793.0	70°	8639.9	7509.9	2509.0	823.9	838.2	1011.3	1185.8	1201.6	1211.6	1223.0
7630.0	72.5°	6734.6	5521.5	1436.2	666.6	696.6	876.9	1034.2	1052.8	1058.5	1080.0
5309.8	75°	4104.0	3247.1	775.3	525.0	572.2	749.6	884.0	905.5	915.5	941.2
2607.7	77.5°	1951.1	1406.1	442.0	409.1	460.6	612.2	746.7	771.0	743.8	758.1
719.5	80°	659.4	522.1	278.9	311.8	351.9	477.8	597.9	622.2	565.0	562.2
238.9	82.5°	230.3	211.7	177.4	207.4	227.4	341.9	452.0	483.5	420.6	419.1
107.3	85°	90.1	85.8	98.7	113.0	135.9	210.3	297.5	313.3	258.9	208.8
31.5	87.5°	18.6	20.0	24.3	25.7	41.5	73.0	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>
3084.1
3199.9
3368.7
3563.3
3785.0
4038.2
4350.0
4689.0
4873.6
4777.7
4520.2
4258.5
4029.6
3810.7
3574.7
3322.9
3099.8
3048.3
2911.0
2670.7
2284.4
1968.3
1861.0
1773.8
1728.0
1627.9
1512.0
1371.8
1228.8
1088.6
944.1
746.7
556.4
399.1
206.0
81.5
0.0

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