

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: P941202

Luminaire Tested: **GALN-SB4C-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941202
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-SB4C-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 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: 28459 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

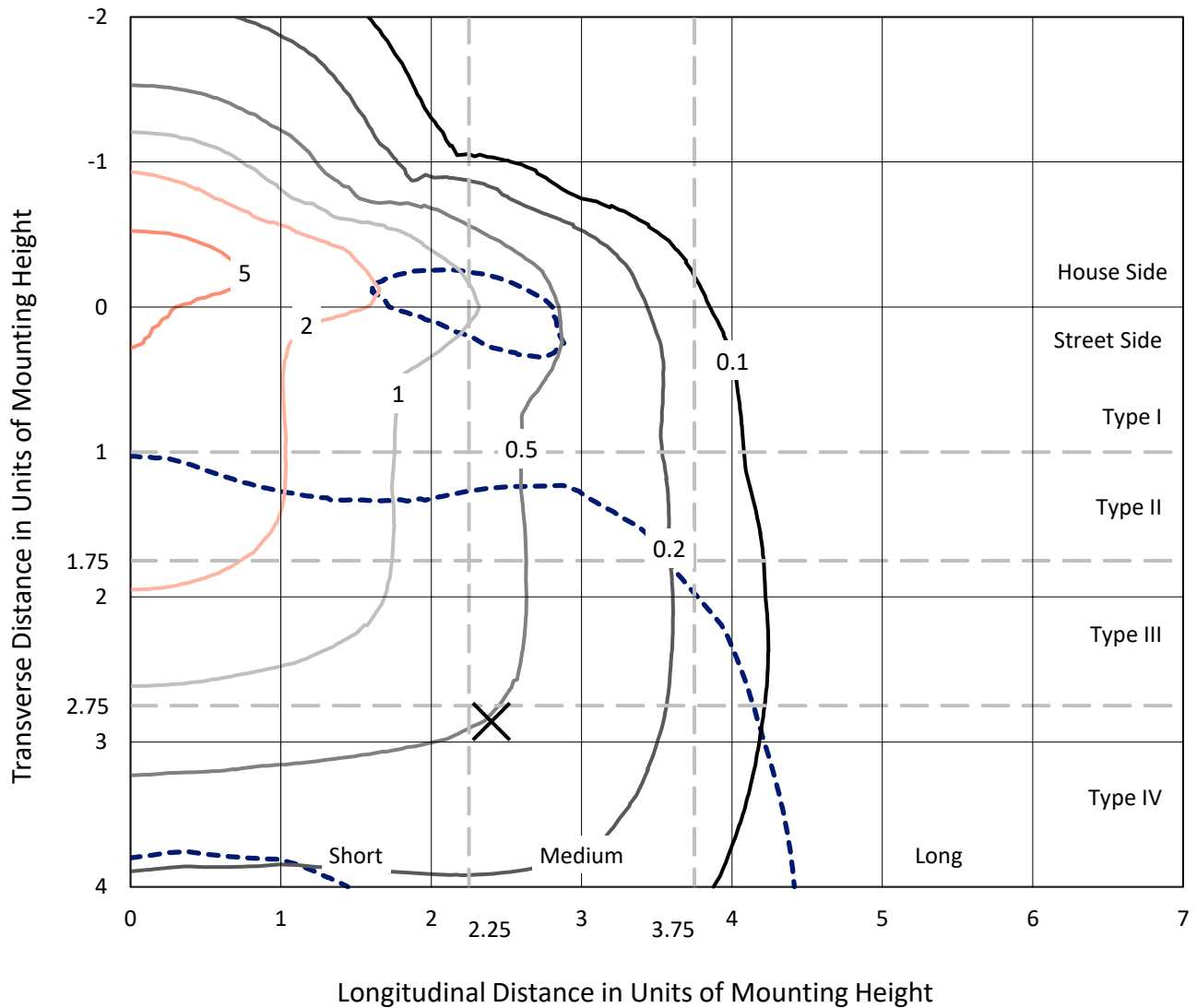
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

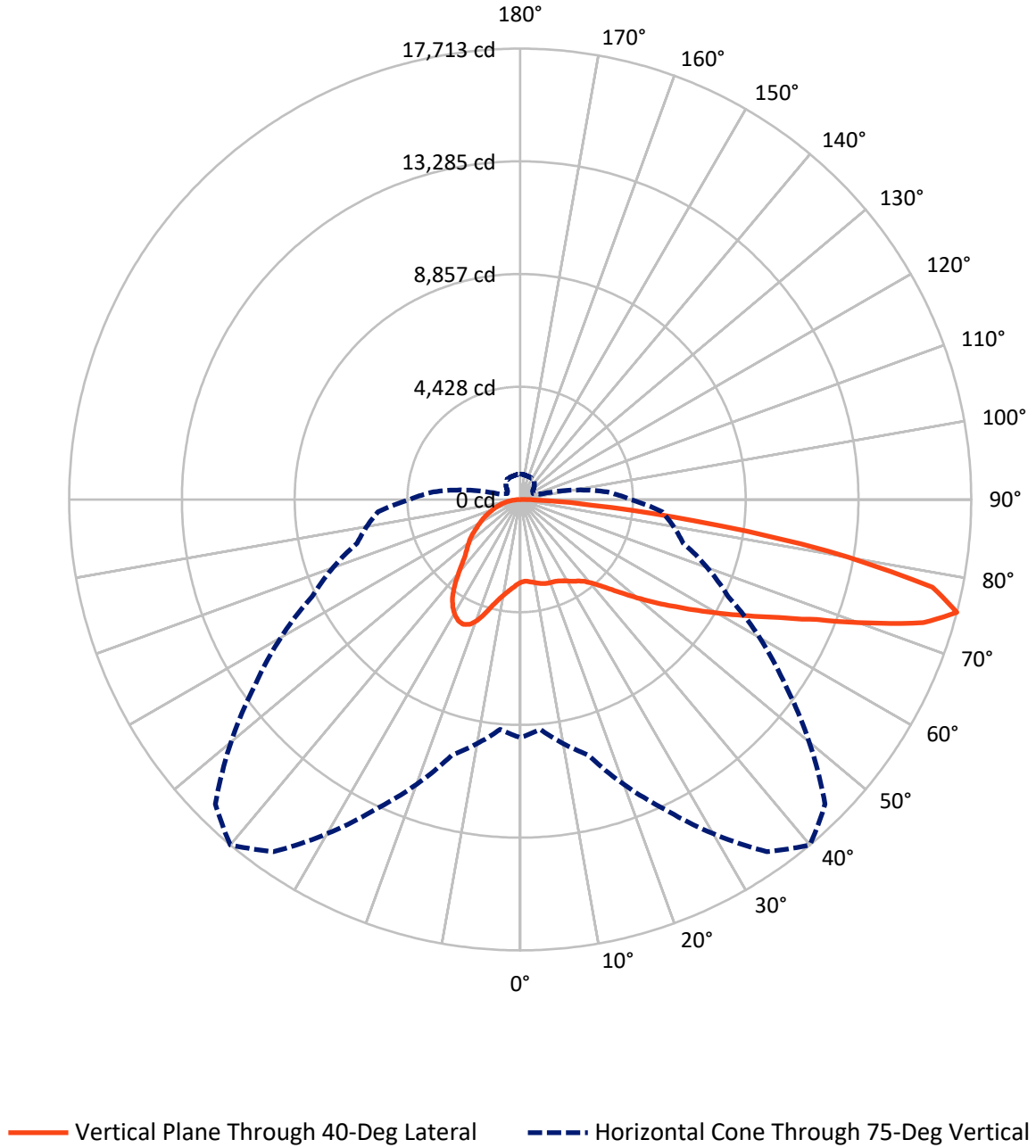
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	8817.6	0.0	8817.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	19641.5	0.0	19641.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	28459.0	0.0	28459.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.8	1.1
10°-20°	1090.6	3.8
20°-30°	1991.4	7.0
30°-40°	2824.4	9.9
40°-50°	3813.8	13.4
50°-60°	5130.6	18.0
60°-70°	6511.9	22.9
70°-80°	5909.9	20.8
80°-90°	861.5	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°	28459.0	100.0
0°-180°	28459.0	100.0



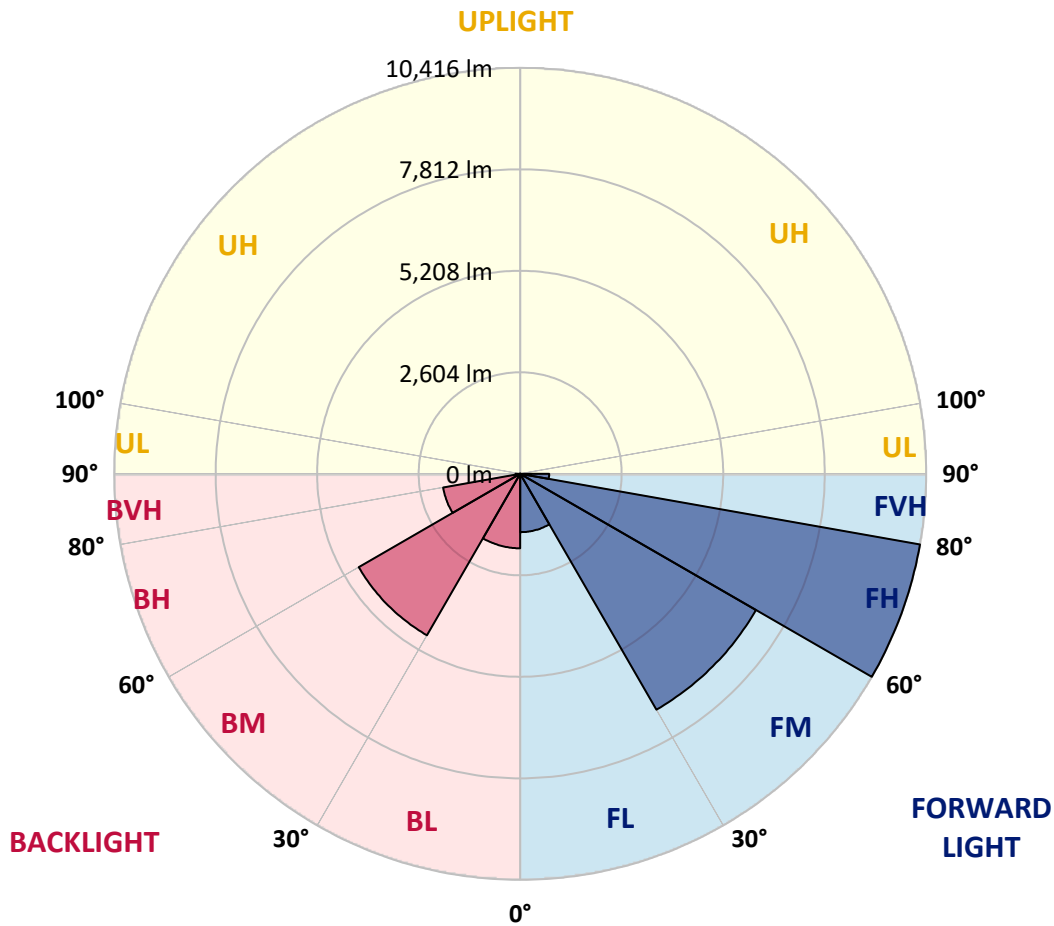
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1497.0	5.3			
FM (30°-60°)	6986.1	24.5			
FH (60°-80°)	10415.6	36.6			G4/12000
FVH (80°-90°)	742.9	2.6			G4/750
BL (0°-30°)	1910.0	6.7	B3/2500		
BM (30°-60°)	4782.7	16.8	B3/5000		
BH (60°-80°)	2006.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	118.6	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°	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3
2.5°	3204.5	3222.6	3218.1	3212.1	3212.1	3213.6	3212.1	3222.6	3233.2	3243.8
5°	3237.7	3255.8	3246.8	3239.2	3233.2	3231.7	3227.2	3225.6	3231.7	3245.3
7.5°	3302.6	3320.7	3307.2	3293.6	3281.5	3275.5	3269.4	3260.4	3255.8	3263.4
10°	3375.1	3393.2	3376.6	3352.4	3332.8	3325.3	3319.2	3310.2	3304.1	3308.7
12.5°	3447.5	3465.6	3443.0	3409.8	3384.1	3379.6	3372.1	3369.0	3367.5	3366.0
15°	3515.5	3530.5	3501.9	3462.6	3435.5	3427.9	3420.4	3424.9	3432.4	3441.5
17.5°	3568.3	3583.4	3541.1	3489.8	3464.1	3461.1	3456.6	3471.7	3492.8	3515.5
20°	3616.6	3631.7	3577.3	3507.9	3477.7	3477.7	3479.2	3510.9	3541.1	3574.3
22.5°	3684.5	3696.6	3630.2	3535.1	3491.3	3494.3	3506.4	3538.1	3575.8	3621.1
25°	3785.6	3794.7	3713.2	3586.4	3536.6	3545.6	3556.2	3571.3	3607.5	3660.4
27.5°	3948.7	3956.2	3849.0	3677.0	3601.5	3616.6	3631.7	3621.1	3637.7	3683.0
30°	4178.1	4182.6	4046.8	3818.9	3711.7	3719.2	3722.2	3678.5	3646.8	3683.0
32.5°	4449.8	4448.3	4286.8	3990.9	3837.0	3829.4	3803.8	3717.7	3643.8	3675.5
35°	4870.9	4854.3	4646.0	4232.4	3978.8	3932.1	3871.7	3761.5	3658.9	3667.9
37.5°	5568.3	5517.0	5228.7	4627.9	4190.2	4070.9	3981.9	3832.4	3692.1	3664.9
40°	6354.7	6289.8	5972.8	5169.8	4507.1	4315.5	4172.1	3933.6	3746.4	3678.5
42.5°	7287.5	7195.4	6854.3	5808.3	4908.7	4630.9	4415.1	4061.9	3826.4	3722.2
45°	8433.2	8310.9	7827.9	6528.3	5414.3	5044.5	4756.2	4256.6	3948.7	3806.8
47.5°	9590.9	9621.1	8934.3	7352.4	6021.1	5554.7	5183.4	4549.4	4126.8	3942.6
50°	10821.1	10842.2	10034.7	8265.6	6709.4	6131.3	5663.4	4877.0	4374.3	4135.8
52.5°	11781.1	11784.1	11033.9	9221.1	7426.4	6765.3	6181.1	5251.3	4661.1	4392.4
55°	12381.8	12374.3	11734.3	10125.2	8250.5	7430.9	6754.7	5677.0	5011.3	4694.3
57.5°	12818.1	12795.4	12217.3	10902.6	9129.0	8217.3	7403.7	6160.0	5424.9	5053.6
60°	12984.1	12970.5	12544.8	11574.3	10052.8	9086.8	8152.4	6700.3	5894.3	5477.7
62.5°	13047.5	13073.1	12866.4	12224.8	11041.5	10049.8	8975.1	7346.4	6422.6	5957.7
65°	13270.9	13317.7	13275.4	13076.2	12158.4	11177.3	10066.4	8114.7	6999.2	6472.4
67.5°	13713.1	13759.9	13778.0	14095.0	13523.0	12582.6	11427.9	9071.7	7673.9	7006.8
70°	13702.6	13689.0	14009.0	14905.6	15231.6	14528.2	13263.3	10249.0	8478.5	7450.5
72.5°	12472.4	12363.7	13119.9	14896.5	16653.5	16559.9	15504.8	11767.5	9172.8	7504.9
75°	9356.9	9067.1	10403.0	13424.8	16890.5	17713.1	16929.7	12709.4	9008.3	6630.9
77.5°	4001.5	3710.2	5284.5	9938.1	15116.9	16558.4	15622.6	11088.3	7190.9	4384.9
80°	1047.5	1046.0	1597.0	4505.6	10280.7	12227.9	10727.5	7160.7	4108.7	1566.8
82.5°	433.2	422.6	587.2	1752.4	5023.4	6861.9	5600.0	3193.9	1483.8	424.1
85°	161.5	160.0	285.3	605.3	1772.1	2830.2	2048.3	816.6	369.8	206.8
87.5°	45.3	43.8	61.9	209.8	431.7	655.1	350.2	134.3	104.2	81.5
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°
3254.3	0°	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3
3260.4	2.5°	3264.9	3272.4	3286.0	3296.6	3310.2	3325.3	3346.4	3360.0	3373.6	3382.6
3267.9	5°	3278.5	3295.1	3329.8	3364.5	3405.3	3443.0	3486.8	3518.5	3544.1	3551.7
3295.1	7.5°	3308.7	3335.8	3394.7	3453.6	3518.5	3580.4	3643.8	3698.1	3741.9	3758.5
3343.4	10°	3361.5	3397.7	3480.7	3563.8	3649.8	3744.9	3826.4	3904.9	3966.8	3992.4
3400.7	12.5°	3427.9	3473.2	3581.9	3696.6	3815.8	3947.2	4052.8	4149.4	4226.4	4261.1
3480.7	15°	3513.9	3572.8	3711.7	3865.6	4040.7	4223.4	4357.7	4464.9	4550.9	4593.2
3563.8	17.5°	3607.5	3686.0	3861.1	4093.6	4344.1	4584.1	4741.1	4819.6	4908.7	4949.4
3640.7	20°	3698.1	3794.7	4045.3	4383.4	4717.0	4972.1	5098.8	5120.0	5126.0	5130.5
3713.2	22.5°	3791.7	3921.5	4276.2	4748.7	5106.4	5283.0	5301.1	5210.5	5083.8	5024.9
3784.1	25°	3894.3	4066.4	4578.1	5151.7	5441.5	5462.6	5323.7	5103.4	4863.4	4753.2
3841.5	27.5°	3993.9	4233.9	4940.4	5536.6	5683.0	5497.3	5198.5	4886.0	4596.2	4480.0
3882.2	30°	4093.6	4425.6	5340.4	5873.2	5793.2	5411.3	5000.7	4652.1	4360.7	4238.5
3918.5	32.5°	4194.7	4649.0	5800.7	6116.2	5773.6	5228.7	4754.7	4389.4	4132.8	4004.5
3950.2	35°	4309.4	4923.8	6237.0	6249.0	5642.2	4960.0	4430.2	4075.5	3852.1	3749.4
3987.9	37.5°	4458.8	5272.4	6621.9	6282.2	5412.8	4566.0	4027.2	3704.1	3520.0	3473.2
4043.8	40°	4644.5	5692.0	6916.2	6229.4	5073.2	4087.5	3586.4	3328.3	3224.1	3234.7
4119.2	42.5°	4886.0	6161.5	7123.0	6093.6	4600.7	3593.9	3200.0	3085.3	3135.1	3177.3
4232.4	45°	5200.0	6649.0	7251.3	5862.6	4066.4	3175.8	2972.1	2999.2	3037.0	3041.5
4415.1	47.5°	5601.5	7142.6	7335.8	5513.9	3521.5	2881.5	2827.2	2833.2	2825.6	2793.9
4688.3	50°	6102.6	7622.6	7411.3	5052.1	3058.1	2697.3	2624.9	2603.8	2499.6	2397.0
5052.1	52.5°	6673.2	8063.4	7443.0	4478.5	2697.3	2543.4	2425.6	2292.8	2098.1	2066.4
5509.4	55°	7307.1	8470.9	7361.5	3773.6	2394.0	2345.6	2167.5	2007.5	1986.4	1959.2
6111.7	57.5°	8064.9	8910.1	7195.4	2987.2	2083.0	2114.7	1941.1	1959.2	1921.5	1879.2
6886.0	60°	8893.5	9364.5	6904.1	2270.2	1761.5	1826.4	1882.3	1880.7	1870.2	1835.5
7702.6	62.5°	9639.2	9663.4	6330.5	1738.9	1479.2	1603.0	1755.5	1754.0	1744.9	1725.3
8555.4	65°	10083.0	9618.1	5373.6	1369.1	1246.8	1418.9	1583.4	1595.5	1597.0	1595.5
9196.9	67.5°	10004.5	9088.3	4060.4	1089.8	1055.1	1231.7	1412.8	1429.4	1441.5	1444.5
9278.4	70°	9116.9	7924.5	2647.5	869.4	884.5	1067.2	1251.3	1267.9	1278.5	1290.6
8051.3	72.5°	7106.4	5826.4	1515.5	703.4	735.1	925.3	1091.3	1110.9	1117.0	1139.6
5603.0	75°	4330.5	3426.4	818.1	554.0	603.8	790.9	932.8	955.5	966.0	993.2
2751.7	77.5°	2058.9	1483.8	466.4	431.7	486.0	646.0	787.9	813.6	784.9	800.0
759.2	80°	695.8	550.9	294.3	329.1	371.3	504.1	630.9	656.6	596.2	593.2
252.1	82.5°	243.0	223.4	187.2	218.9	240.0	360.8	477.0	510.2	443.8	442.3
113.2	85°	95.1	90.6	104.2	119.2	143.4	221.9	314.0	330.6	273.2	220.4
33.2	87.5°	19.6	21.1	25.7	27.2	43.8	77.0	113.2	138.9	110.2	93.6
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>
3254.3
3376.6
3554.7
3760.0
3993.9
4261.1
4590.2
4947.9
5142.6
5041.5
4769.8
4493.6
4252.1
4021.1
3772.1
3506.4
3270.9
3216.6
3071.7
2818.1
2410.6
2077.0
1963.8
1871.7
1823.4
1717.7
1595.5
1447.5
1296.6
1148.7
996.2
787.9
587.2
421.1
217.4
86.0
0.0

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