

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: P940612

Luminaire Tested: **GALN-SB3D-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940612
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-SB3D-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30265 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

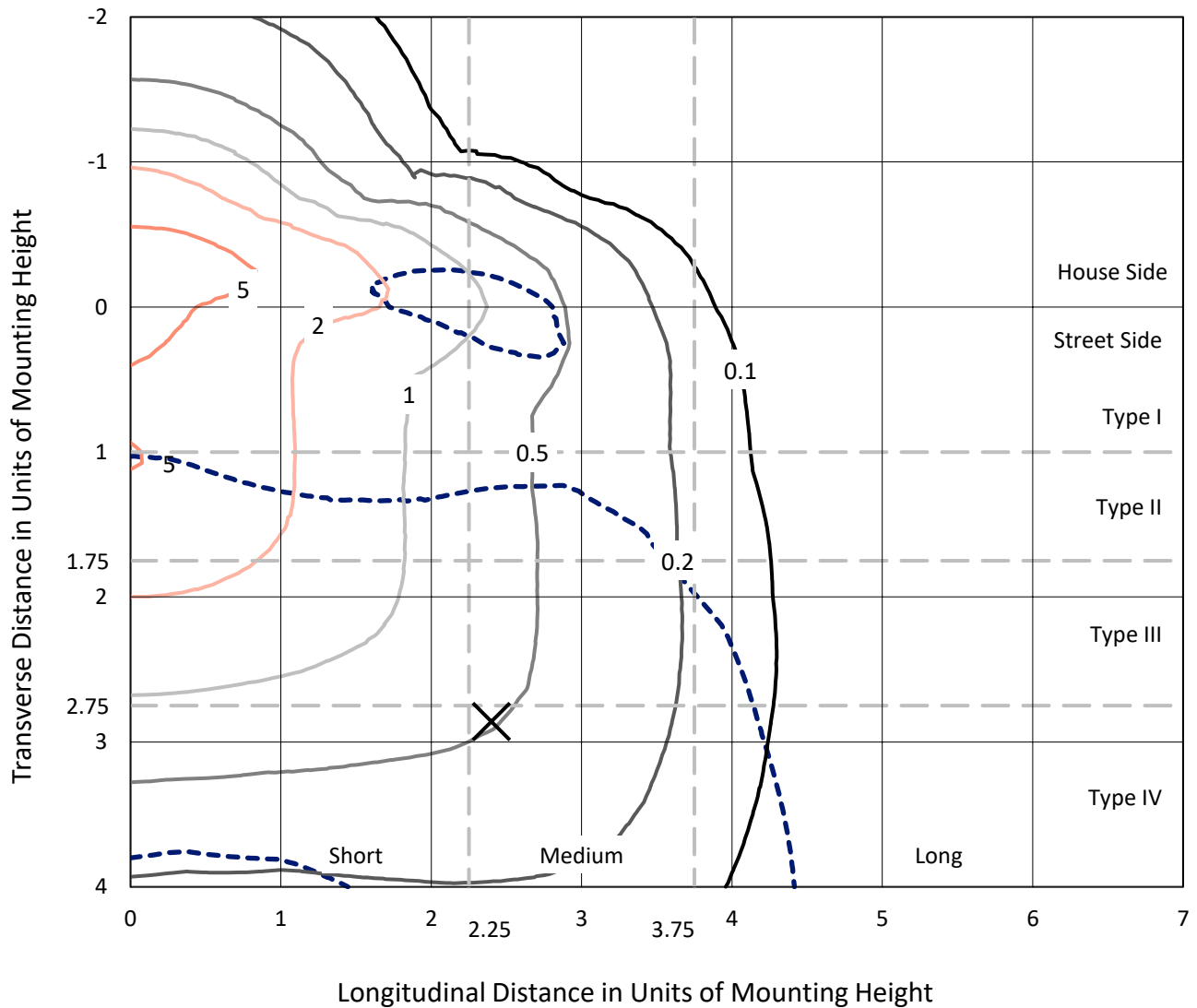
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

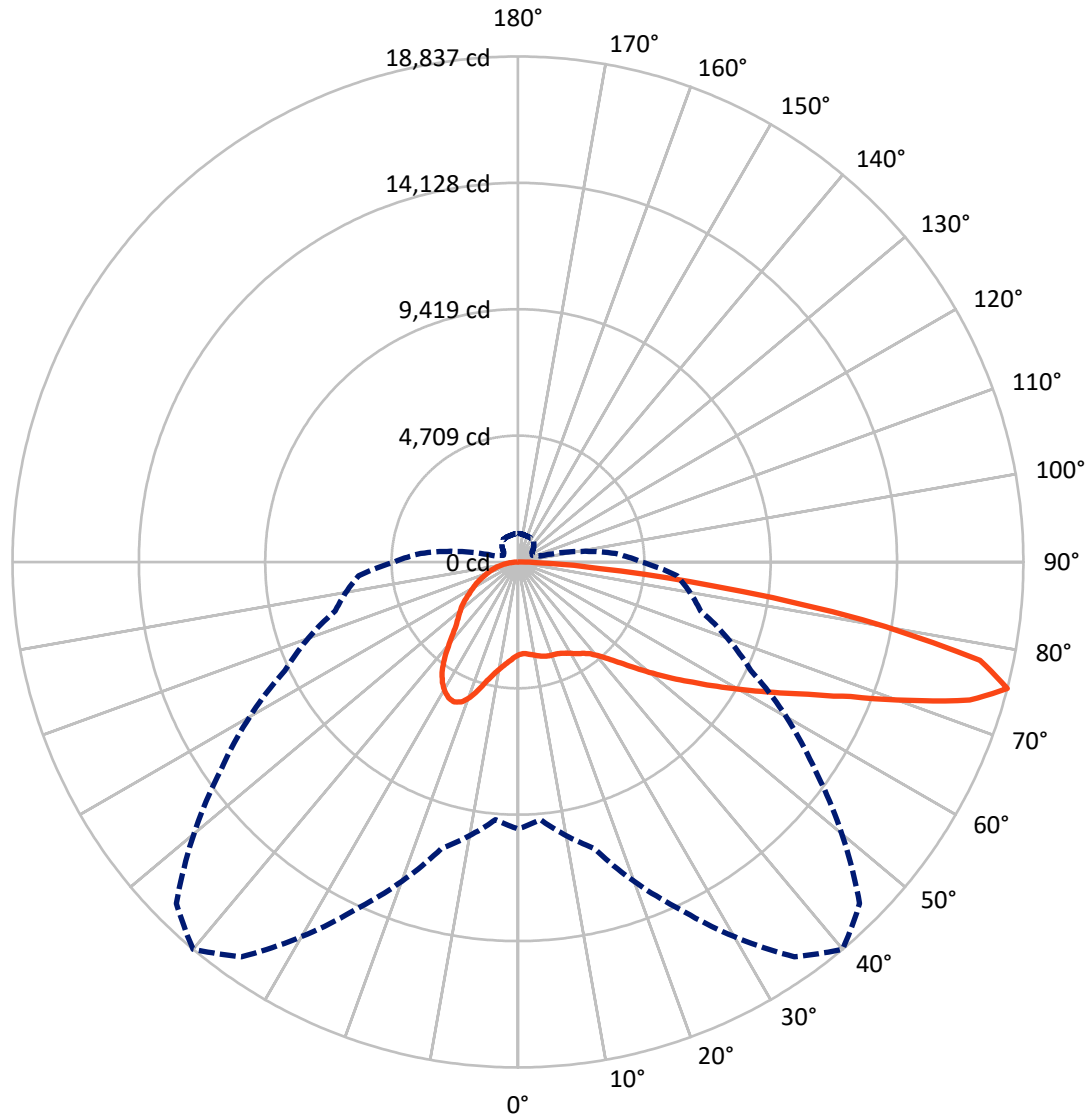
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9377.1	0.0	9377.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	20887.9	0.0	20887.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	30265.0	0.0	30265.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.5	1.1
10°-20°	1159.9	3.8
20°-30°	2117.8	7.0
30°-40°	3003.6	9.9
40°-50°	4055.8	13.4
50°-60°	5456.2	18.0
60°-70°	6925.1	22.9
70°-80°	6285.0	20.8
80°-90°	916.2	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°	30265.0	100.0
0°-180°	30265.0	100.0



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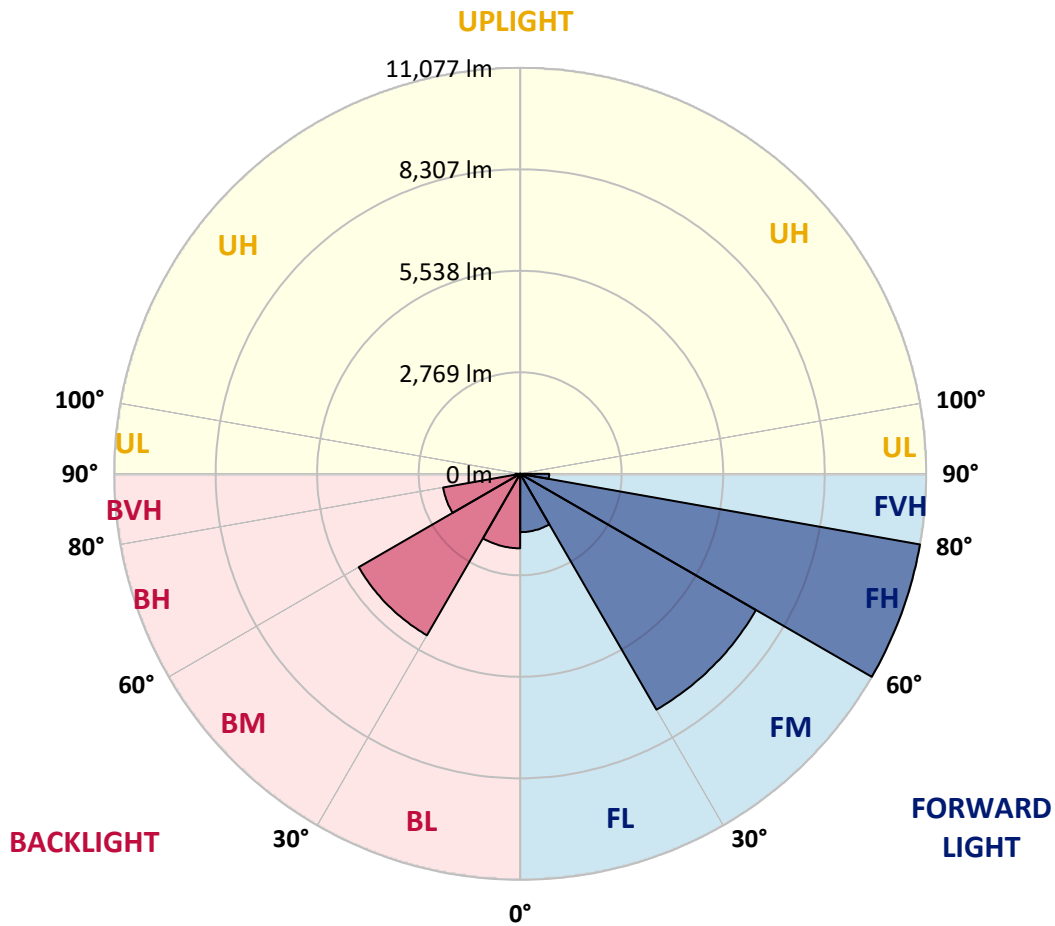
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1592.0	5.3			
FM (30°-60°)	7429.4	24.5			
FH (60°-80°)	11076.5	36.6			G4/12000
FVH (80°-90°)	790.0	2.6			G5
BL (0°-30°)	2031.2	6.7	B3/2500		
BM (30°-60°)	5086.2	16.8	B4/8500		
BH (60°-80°)	2133.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	126.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3460.8	3460.8	3460.8	3460.8	3460.8	3460.8	3460.8	3460.8	3460.8	3460.8
2.5°	3407.9	3427.1	3422.3	3415.9	3415.9	3417.5	3415.9	3427.1	3438.4	3449.6
5°	3443.2	3462.4	3452.8	3444.8	3438.4	3436.8	3431.9	3430.3	3436.8	3451.2
7.5°	3512.2	3531.5	3517.0	3502.6	3489.7	3483.3	3476.9	3467.3	3462.4	3470.5
10°	3589.3	3608.5	3590.9	3565.2	3544.3	3536.3	3529.9	3520.2	3513.8	3518.6
12.5°	3666.3	3685.6	3661.5	3626.2	3598.9	3594.1	3586.0	3582.8	3581.2	3579.6
15°	3738.5	3754.6	3724.1	3682.4	3653.5	3645.4	3637.4	3642.2	3650.3	3659.9
17.5°	3794.7	3810.8	3765.8	3711.3	3684.0	3680.8	3675.9	3692.0	3714.5	3738.5
20°	3846.1	3862.1	3804.4	3730.5	3698.4	3698.4	3700.0	3733.7	3765.8	3801.1
22.5°	3918.3	3931.2	3860.5	3759.4	3712.9	3716.1	3728.9	3762.6	3802.8	3850.9
25°	4025.9	4035.5	3948.8	3814.0	3761.0	3770.6	3781.9	3797.9	3836.5	3892.6
27.5°	4199.2	4207.3	4093.3	3910.3	3830.0	3846.1	3862.1	3850.9	3868.6	3916.7
30°	4443.2	4448.1	4303.6	4061.2	3947.2	3955.2	3958.5	3911.9	3878.2	3916.7
32.5°	4732.2	4730.6	4558.8	4244.2	4080.5	4072.4	4045.1	3953.6	3875.0	3908.7
35°	5180.0	5162.4	4940.9	4501.0	4231.3	4181.6	4117.4	4000.2	3891.0	3900.7
37.5°	5921.6	5867.1	5560.5	4921.6	4456.1	4329.3	4234.6	4075.6	3926.4	3897.5
40°	6758.0	6688.9	6351.8	5497.9	4793.2	4589.3	4436.8	4183.2	3984.1	3911.9
42.5°	7750.0	7652.1	7289.3	6176.9	5220.2	4924.8	4695.3	4319.6	4069.2	3958.5
45°	8968.3	8838.3	8324.6	6942.6	5757.9	5364.6	5058.0	4526.7	4199.2	4048.4
47.5°	10199.5	10231.6	9501.3	7819.0	6403.2	5907.2	5512.3	4838.1	4388.7	4192.8
50°	11507.8	11530.3	10671.5	8790.2	7135.2	6520.4	6022.8	5186.4	4651.9	4398.3
52.5°	12528.7	12531.9	11734.1	9806.3	7897.7	7194.6	6573.4	5584.5	4956.9	4671.2
55°	13167.6	13159.6	12478.9	10767.8	8774.1	7902.5	7183.3	6037.2	5329.3	4992.2
57.5°	13631.5	13607.4	12992.6	11594.5	9708.3	8738.8	7873.6	6550.9	5769.1	5374.3
60°	13808.1	13793.6	13340.9	12308.8	10690.7	9663.4	8669.8	7125.5	6268.4	5825.3
62.5°	13875.5	13902.8	13682.9	13000.6	11742.1	10687.5	9544.6	7812.6	6830.2	6335.8
65°	14113.0	14162.8	14117.9	13906.0	12930.0	11886.6	10705.2	8629.6	7443.4	6883.2
67.5°	14583.4	14633.1	14652.4	14989.5	14381.1	13381.1	12153.1	9647.3	8160.9	7451.4
70°	14572.1	14557.7	14898.0	15851.5	16198.2	15450.2	14105.0	10899.4	9016.5	7923.3
72.5°	13263.9	13148.3	13952.5	15841.9	17710.3	17610.8	16488.8	12514.3	9754.9	7981.1
75°	9950.7	9642.5	11063.1	14276.8	17962.4	18837.2	18004.1	13515.9	9579.9	7051.7
77.5°	4255.4	3945.6	5619.9	10568.7	16076.2	17609.2	16614.0	11791.9	7647.2	4663.1
80°	1114.0	1112.4	1698.3	4791.6	10933.1	13003.8	11408.3	7615.1	4369.4	1666.2
82.5°	460.7	449.5	624.4	1863.7	5342.2	7297.3	5955.3	3396.6	1577.9	451.1
85°	171.8	170.2	303.4	643.7	1884.5	3009.8	2178.3	868.4	393.3	219.9
87.5°	48.2	46.6	65.8	223.1	459.1	696.7	372.4	142.9	110.8	86.7
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°
3460.8	0°	3460.8	3460.8	3460.8	3460.8	3460.8	3460.8	3460.8	3460.8	3460.8	3460.8
3467.3	2.5°	3472.1	3480.1	3494.6	3505.8	3520.2	3536.3	3558.8	3573.2	3587.7	3597.3
3475.3	5°	3486.5	3504.2	3541.1	3578.0	3621.4	3661.5	3708.0	3741.8	3769.0	3777.1
3504.2	7.5°	3518.6	3547.5	3610.1	3672.7	3741.8	3807.6	3875.0	3932.8	3979.3	3997.0
3555.6	10°	3574.8	3613.3	3701.6	3789.9	3881.4	3982.5	4069.2	4152.7	4218.5	4245.8
3616.5	12.5°	3645.4	3693.6	3809.2	3931.2	4058.0	4197.6	4310.0	4412.7	4494.6	4531.5
3701.6	15°	3736.9	3799.5	3947.2	4111.0	4297.2	4491.4	4634.3	4748.2	4839.7	4884.7
3789.9	17.5°	3836.5	3919.9	4106.1	4353.3	4619.8	4875.0	5042.0	5125.5	5220.2	5263.5
3871.8	20°	3932.8	4035.5	4302.0	4661.5	5016.3	5287.6	5422.4	5444.9	5451.3	5456.1
3948.8	22.5°	4032.3	4170.3	4547.6	5050.0	5430.4	5618.3	5637.5	5541.2	5406.4	5343.8
4024.3	25°	4141.5	4324.4	4868.6	5478.6	5786.8	5809.3	5661.6	5427.2	5172.0	5054.8
4085.3	27.5°	4247.4	4502.6	5253.9	5887.9	6043.6	5846.2	5528.4	5196.1	4887.9	4764.3
4128.6	30°	4353.3	4706.5	5679.2	6245.9	6160.8	5754.7	5318.1	4947.3	4637.5	4507.4
4167.1	32.5°	4460.9	4944.1	6168.8	6504.3	6139.9	5560.5	5056.4	4668.0	4395.1	4258.6
4200.8	35°	4582.9	5236.2	6632.7	6645.6	6000.3	5274.7	4711.3	4334.1	4096.5	3987.4
4241.0	37.5°	4741.8	5607.0	7042.1	6680.9	5756.3	4855.8	4282.7	3939.2	3743.4	3693.6
4300.4	40°	4939.2	6053.3	7355.1	6624.7	5395.1	4346.9	3814.0	3539.5	3428.7	3440.0
4380.6	42.5°	5196.1	6552.5	7575.0	6480.3	4892.7	3822.0	3403.1	3281.1	3334.0	3379.0
4501.0	45°	5530.0	7071.0	7711.5	6234.7	4324.4	3377.4	3160.7	3189.6	3229.7	3234.5
4695.3	47.5°	5957.0	7595.9	7801.3	5863.8	3745.0	3064.4	3006.6	3013.0	3005.0	2971.3
4985.8	50°	6489.9	8106.3	7881.6	5372.7	3252.2	2868.5	2791.5	2769.0	2658.2	2549.1
5372.7	52.5°	7096.7	8575.1	7915.3	4762.7	2868.5	2704.8	2579.6	2438.3	2231.2	2197.5
5859.0	55°	7770.8	9008.5	7828.6	4013.0	2545.9	2494.5	2305.1	2134.9	2112.5	2083.6
6499.5	57.5°	8576.7	9475.6	7652.1	3176.7	2215.2	2248.9	2064.3	2083.6	2043.4	1998.5
7323.0	60°	9457.9	9958.8	7342.3	2414.2	1873.3	1942.3	2001.7	2000.1	1988.9	1951.9
8191.4	62.5°	10250.9	10276.6	6732.3	1849.2	1573.1	1704.7	1866.9	1865.3	1855.6	1834.8
9098.4	65°	10722.8	10228.4	5714.6	1455.9	1325.9	1508.9	1683.9	1696.7	1698.3	1696.7
9780.6	67.5°	10639.4	9665.0	4318.0	1159.0	1122.0	1309.9	1502.5	1520.1	1533.0	1536.2
9867.3	70°	9695.5	8427.4	2815.5	924.6	940.7	1134.9	1330.7	1348.4	1359.6	1372.5
8562.2	72.5°	7557.4	6196.1	1611.6	748.0	781.7	984.0	1160.6	1181.4	1187.9	1211.9
5958.6	75°	4605.4	3643.8	870.0	589.1	642.1	841.1	992.0	1016.1	1027.3	1056.2
2926.3	77.5°	2189.5	1577.9	496.0	459.1	516.9	687.0	837.9	865.2	834.7	850.8
807.4	80°	740.0	585.9	313.0	349.9	394.9	536.1	671.0	698.3	634.1	630.8
268.1	82.5°	258.4	237.6	199.0	232.8	255.2	383.6	507.2	542.6	471.9	470.3
120.4	85°	101.1	96.3	110.8	126.8	152.5	236.0	333.9	351.5	290.5	234.4
35.3	87.5°	20.9	22.5	27.3	28.9	46.6	81.9	120.4	147.7	117.2	99.5
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>
3460.8
3590.9
3780.3
3998.6
4247.4
4531.5
4881.5
5261.9
5469.0
5361.4
5072.5
4778.7
4521.9
4276.3
4011.4
3728.9
3478.5
3420.7
3266.6
2996.9
2563.5
2208.8
2088.4
1990.5
1939.1
1826.7
1696.7
1539.4
1378.9
1221.6
1059.4
837.9
624.4
447.9
231.2
91.5
0.0

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