

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: P940682

Luminaire Tested: **GALN-SB3D-840-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940682
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-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 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: 28949 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

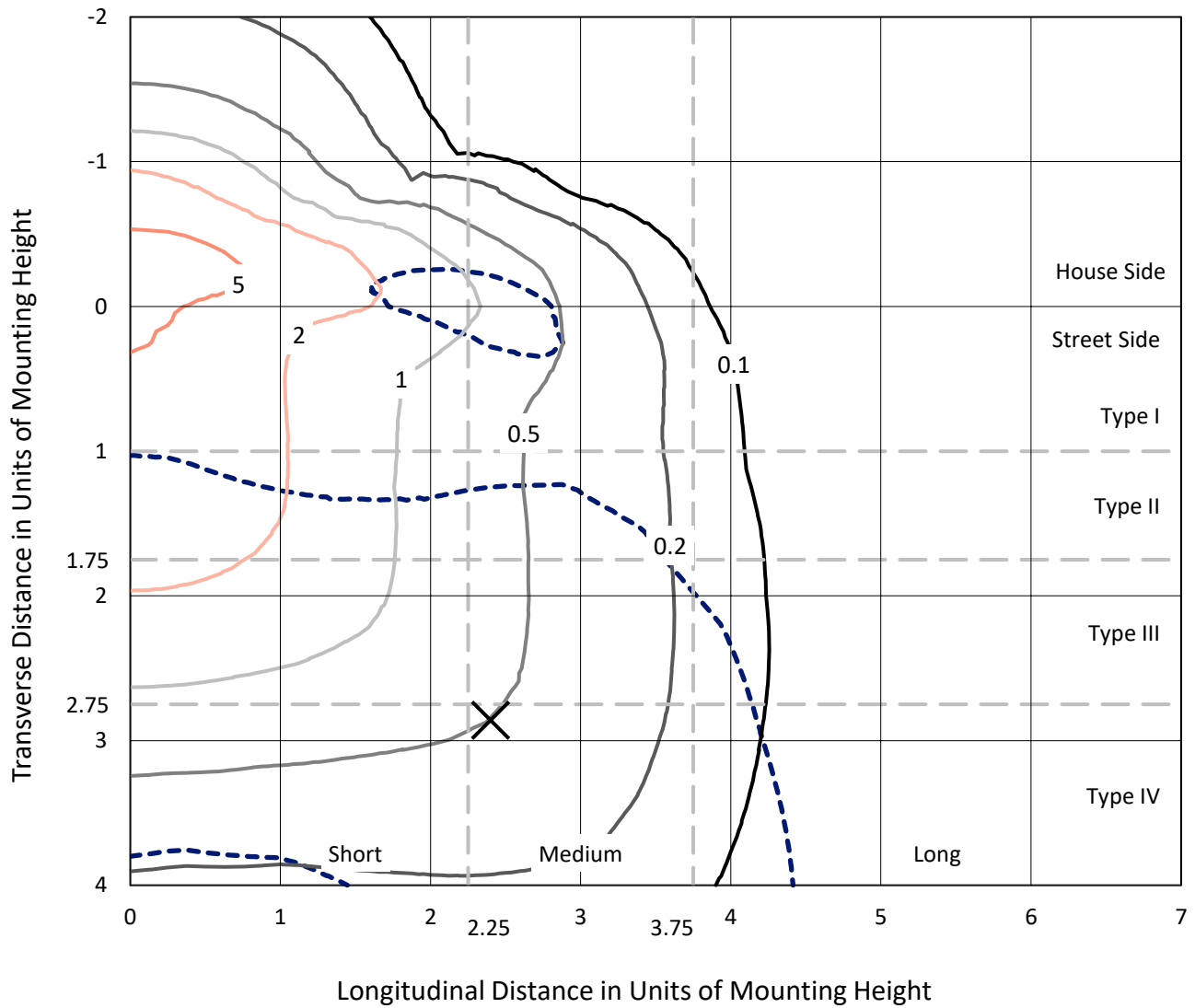
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

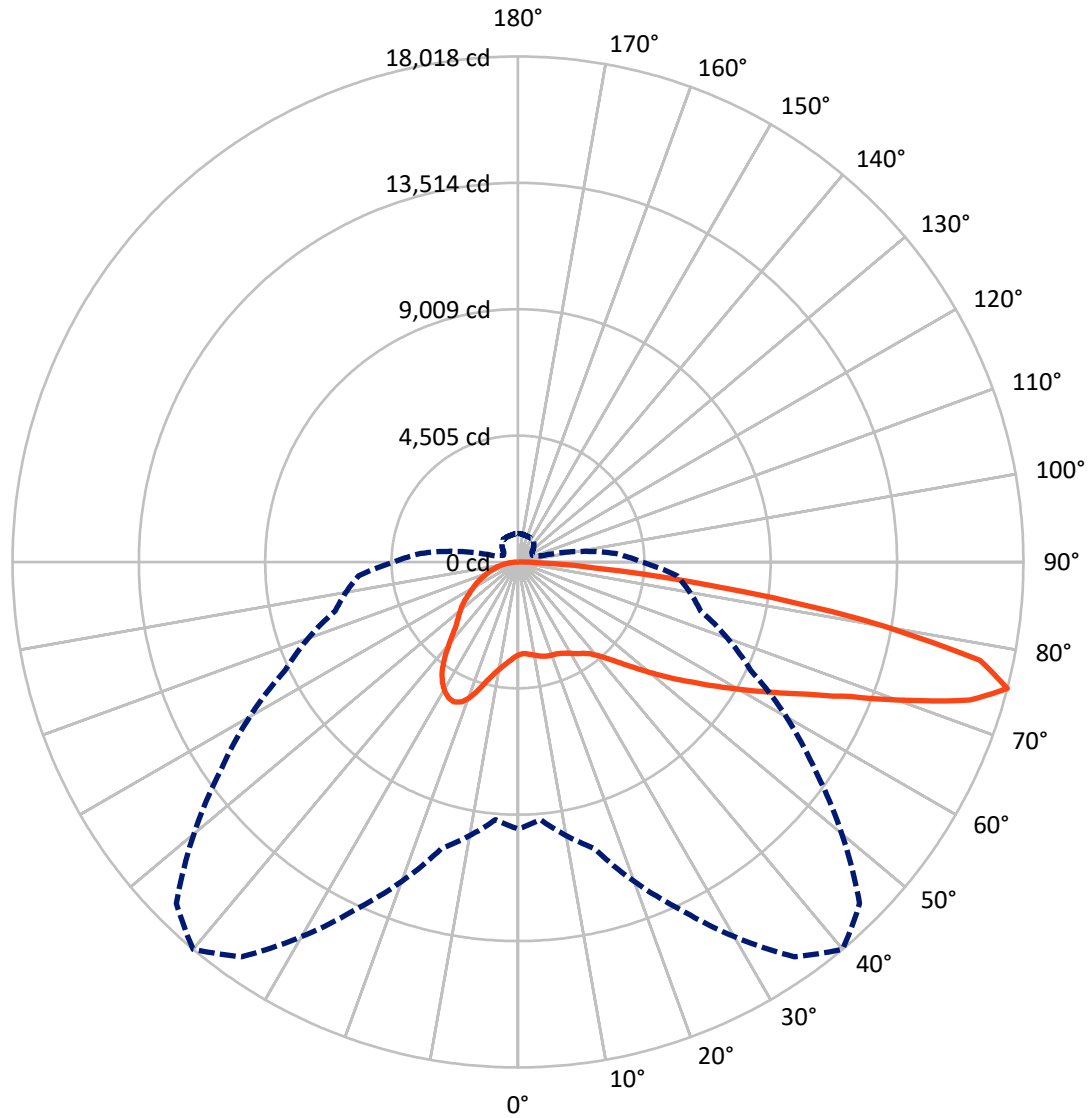
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	8969.4	0.0	8969.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	19979.6	0.0	19979.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	28949.0	0.0	28949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.4	1.1
10°-20°	1109.4	3.8
20°-30°	2025.7	7.0
30°-40°	2873.0	9.9
40°-50°	3879.5	13.4
50°-60°	5218.9	18.0
60°-70°	6624.0	22.9
70°-80°	6011.7	20.8
80°-90°	876.3	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°	28949.0	100.0
0°-180°	28949.0	100.0

Coefficient of Utilization



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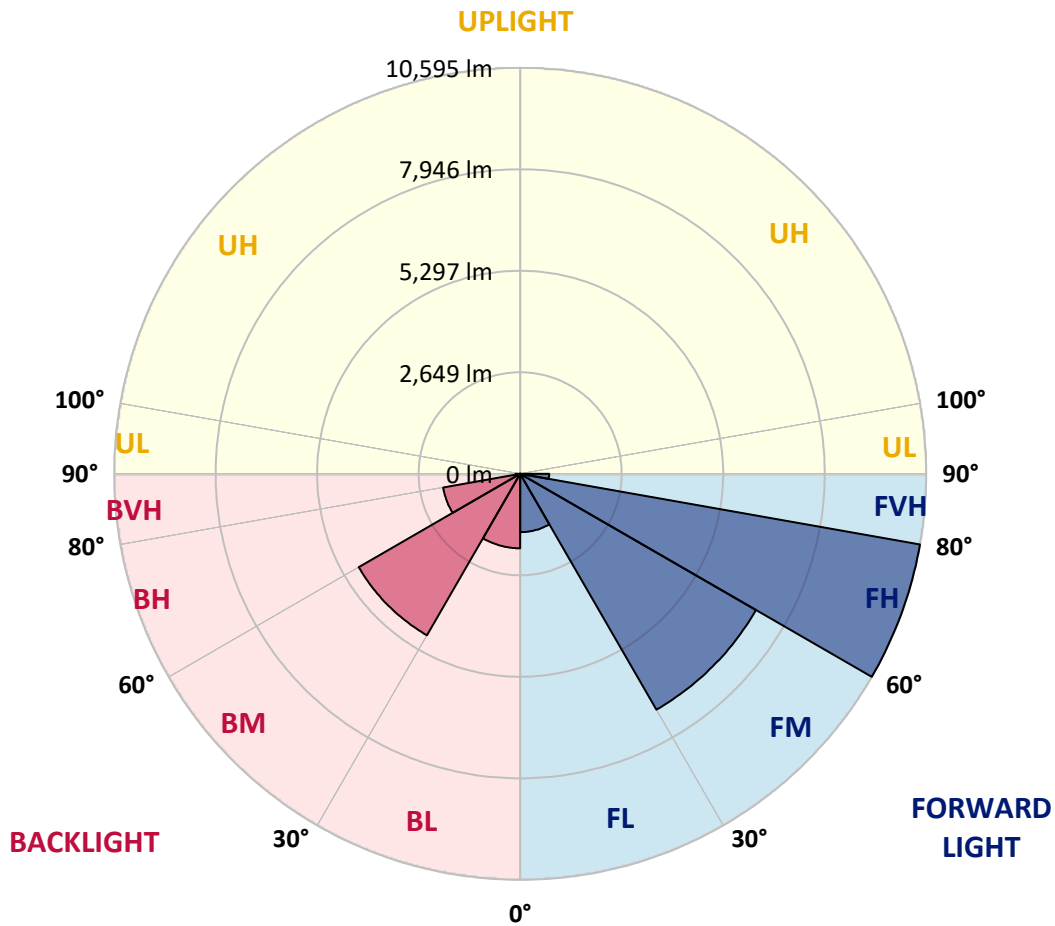
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1522.7	5.3			
FM (30°-60°)	7106.3	24.5			
FH (60°-80°)	10594.9	36.6			G4/12000
FVH (80°-90°)	755.7	2.6			G5
BL (0°-30°)	1942.8	6.7	B3/2500		
BM (30°-60°)	4865.1	16.8	B3/5000		
BH (60°-80°)	2040.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	120.6	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3310.4	3310.4	3310.4	3310.4	3310.4	3310.4	3310.4	3310.4	3310.4	3310.4
2.5°	3259.7	3278.1	3273.5	3267.4	3267.4	3268.9	3267.4	3278.1	3288.9	3299.6
5°	3293.5	3311.9	3302.7	3295.0	3288.9	3287.3	3282.7	3281.2	3287.3	3301.1
7.5°	3359.5	3377.9	3364.1	3350.3	3338.0	3331.9	3325.7	3316.5	3311.9	3319.6
10°	3433.2	3451.6	3434.7	3410.2	3390.2	3382.5	3376.4	3367.2	3361.0	3365.6
12.5°	3506.9	3525.3	3502.3	3468.5	3442.4	3437.8	3430.1	3427.0	3425.5	3424.0
15°	3576.0	3591.3	3562.2	3522.2	3494.6	3486.9	3479.3	3483.9	3491.5	3500.7
17.5°	3629.7	3645.1	3602.1	3549.9	3523.8	3520.7	3516.1	3531.5	3553.0	3576.0
20°	3678.9	3694.2	3638.9	3568.3	3537.6	3537.6	3539.1	3571.4	3602.1	3635.9
22.5°	3748.0	3760.2	3692.7	3595.9	3551.4	3554.5	3566.8	3599.0	3637.4	3683.5
25°	3850.8	3860.0	3777.1	3648.1	3597.5	3606.7	3617.4	3632.8	3669.6	3723.4
27.5°	4016.6	4024.3	3915.3	3740.3	3663.5	3678.9	3694.2	3683.5	3700.4	3746.4
30°	4250.0	4254.6	4116.5	3884.6	3775.6	3783.3	3786.3	3741.8	3709.6	3746.4
32.5°	4526.4	4524.9	4360.6	4059.6	3903.0	3895.4	3869.2	3781.7	3706.5	3738.7
35°	4954.8	4937.9	4726.0	4305.3	4047.4	3999.8	3938.3	3826.3	3721.8	3731.1
37.5°	5664.1	5611.9	5318.7	4707.6	4262.3	4141.0	4050.4	3898.4	3755.6	3728.0
40°	6464.1	6398.1	6075.6	5258.8	4584.8	4389.8	4243.9	4001.3	3810.9	3741.8
42.5°	7413.0	7319.3	6972.3	5908.3	4993.2	4710.7	4491.1	4131.8	3892.3	3786.3
45°	8578.4	8454.0	7962.7	6640.7	5507.5	5131.4	4838.1	4329.9	4016.6	3872.3
47.5°	9756.0	9786.7	9088.1	7479.0	6124.8	5650.3	5272.6	4627.7	4197.8	4010.5
50°	11007.4	11028.9	10207.4	8407.9	6824.9	6236.9	5760.9	4960.9	4449.6	4207.0
52.5°	11983.9	11987.0	11223.9	9379.9	7554.2	6881.7	6287.5	5341.7	4741.4	4468.1
55°	12595.0	12587.3	11936.3	10299.6	8392.6	7558.9	6871.0	5774.7	5097.6	4775.1
57.5°	13038.8	13015.7	12427.7	11090.3	9286.2	8358.8	7531.2	6266.0	5518.3	5140.6
60°	13207.6	13193.8	12760.8	11773.6	10225.9	9243.2	8292.8	6815.7	5995.8	5572.0
62.5°	13272.1	13298.2	13087.9	12435.3	11231.6	10222.8	9129.6	7472.9	6533.2	6060.3
65°	13499.4	13547.0	13504.0	13301.3	12367.8	11369.8	10239.7	8254.4	7119.7	6583.9
67.5°	13949.3	13996.9	14015.3	14337.7	13755.8	12799.2	11624.6	9227.8	7806.1	7127.4
70°	13938.5	13924.7	14250.2	15162.2	15493.9	14778.4	13491.7	10425.5	8624.4	7578.8
72.5°	12687.1	12576.6	13345.8	15153.0	16940.2	16845.0	15771.8	11970.1	9330.7	7634.1
75°	9518.0	9223.2	10582.1	13656.0	17181.3	18018.1	17221.2	12928.2	9163.4	6745.1
77.5°	4070.4	3774.1	5375.5	10109.2	15377.2	16843.5	15891.6	11279.2	7314.7	4460.4
80°	1065.6	1064.0	1624.5	4583.2	10457.7	12438.4	10912.2	7284.0	4179.4	1593.8
82.5°	440.7	429.9	597.3	1782.6	5109.9	6980.0	5696.4	3248.9	1509.3	431.5
85°	164.3	162.8	290.2	615.7	1802.6	2878.9	2083.6	830.7	376.2	210.4
87.5°	46.1	44.5	63.0	213.4	439.1	666.4	356.2	136.7	105.9	82.9
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°
3310.4	0°	3310.4	3310.4	3310.4	3310.4	3310.4	3310.4	3310.4	3310.4	3310.4	3310.4
3316.5	2.5°	3321.1	3328.8	3342.6	3353.3	3367.2	3382.5	3404.0	3417.8	3431.7	3440.9
3324.2	5°	3334.9	3351.8	3387.1	3422.4	3463.9	3502.3	3546.8	3579.1	3605.2	3612.8
3351.8	7.5°	3365.6	3393.3	3453.2	3513.0	3579.1	3642.0	3706.5	3761.8	3806.3	3823.2
3400.9	10°	3419.4	3456.2	3540.7	3625.1	3712.6	3809.4	3892.3	3972.1	4035.1	4061.2
3459.3	12.5°	3486.9	3533.0	3643.5	3760.2	3881.5	4015.1	4122.6	4220.9	4299.2	4334.5
3540.7	15°	3574.4	3634.3	3775.6	3932.2	4110.3	4296.1	4432.7	4541.8	4629.3	4672.3
3625.1	17.5°	3669.6	3749.5	3927.6	4164.0	4418.9	4663.1	4822.7	4902.6	4993.2	5034.6
3703.4	20°	3761.8	3860.0	4114.9	4458.8	4798.2	5057.7	5186.6	5208.1	5214.3	5218.9
3777.1	22.5°	3857.0	3989.0	4349.8	4830.4	5194.3	5374.0	5392.4	5300.3	5171.3	5111.4
3849.3	25°	3961.4	4136.4	4656.9	5240.4	5535.2	5556.7	5415.4	5191.2	4947.1	4835.0
3907.6	27.5°	4062.7	4306.8	5025.4	5631.9	5780.8	5592.0	5288.0	4970.1	4675.3	4557.1
3949.1	30°	4164.0	4501.8	5432.3	5974.3	5892.9	5504.5	5086.8	4732.2	4435.8	4311.4
3985.9	32.5°	4266.9	4729.1	5900.6	6221.5	5873.0	5318.7	4836.6	4465.0	4204.0	4073.5
4018.2	35°	4383.6	5008.5	6344.3	6356.6	5739.4	5045.4	4506.4	4145.6	3918.4	3814.0
4056.6	37.5°	4535.6	5363.2	6735.9	6390.4	5506.0	4644.6	4096.5	3767.9	3580.6	3533.0
4113.4	40°	4724.5	5790.1	7035.3	6336.7	5160.5	4157.9	3648.1	3385.6	3279.6	3290.4
4190.2	42.5°	4970.1	6267.6	7245.6	6198.5	4679.9	3655.8	3255.1	3138.4	3189.1	3232.1
4305.3	45°	5289.5	6763.5	7376.1	5963.6	4136.4	3230.5	3023.2	3050.9	3089.3	3093.9
4491.1	47.5°	5697.9	7265.6	7462.1	5608.9	3582.1	2931.1	2875.8	2882.0	2874.3	2842.1
4769.0	50°	6207.7	7753.9	7538.9	5139.0	3110.8	2743.8	2670.1	2648.6	2542.6	2438.2
5139.0	52.5°	6788.1	8202.2	7571.1	4555.6	2743.8	2587.2	2467.4	2332.3	2134.2	2102.0
5604.3	55°	7432.9	8616.8	7488.2	3838.5	2435.2	2386.0	2204.9	2042.1	2020.6	1993.0
6216.9	57.5°	8203.7	9063.6	7319.3	3038.6	2118.9	2151.1	1974.5	1993.0	1954.6	1911.6
7004.6	60°	9046.7	9525.7	7023.0	2309.3	1791.8	1857.9	1914.7	1913.1	1902.4	1867.1
7835.2	62.5°	9805.2	9829.7	6439.5	1768.8	1504.7	1630.6	1785.7	1784.2	1774.9	1755.0
8702.7	65°	10256.6	9783.7	5466.1	1392.6	1268.3	1443.3	1610.7	1622.9	1624.5	1622.9
9355.3	67.5°	10176.7	9244.7	4130.3	1108.6	1073.3	1252.9	1437.1	1454.0	1466.3	1469.4
9438.2	70°	9273.9	8060.9	2693.1	884.4	899.8	1085.5	1272.9	1289.7	1300.5	1312.8
8189.9	72.5°	7228.7	5926.7	1541.6	715.5	747.7	941.2	1110.1	1130.1	1136.2	1159.2
5699.5	75°	4405.1	3485.4	832.2	563.5	614.2	804.6	948.9	971.9	982.7	1010.3
2799.1	77.5°	2094.3	1509.3	474.4	439.1	494.4	657.2	801.5	827.6	798.4	813.8
772.3	80°	707.8	560.4	299.4	334.7	377.7	512.8	641.8	667.9	606.5	603.4
256.4	82.5°	247.2	227.2	190.4	222.6	244.1	367.0	485.2	519.0	451.4	449.9
115.2	85°	96.7	92.1	105.9	121.3	145.9	225.7	319.4	336.3	277.9	224.2
33.8	87.5°	20.0	21.5	26.1	27.6	44.5	78.3	115.2	141.3	112.1	95.2
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>
3310.4
3434.7
3615.9
3824.7
4062.7
4334.5
4669.2
5033.1
5231.2
5128.3
4851.9
4570.9
4325.3
4090.3
3837.0
3566.8
3327.2
3272.0
3124.6
2866.6
2452.1
2112.7
1997.6
1903.9
1854.8
1747.3
1622.9
1472.5
1318.9
1168.5
<i>1013.4</i>
801.5
597.3
428.4
221.1
87.5
0.0

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