

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: P948639

Luminaire Tested: **GALN-SB3C-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-850-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21006 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

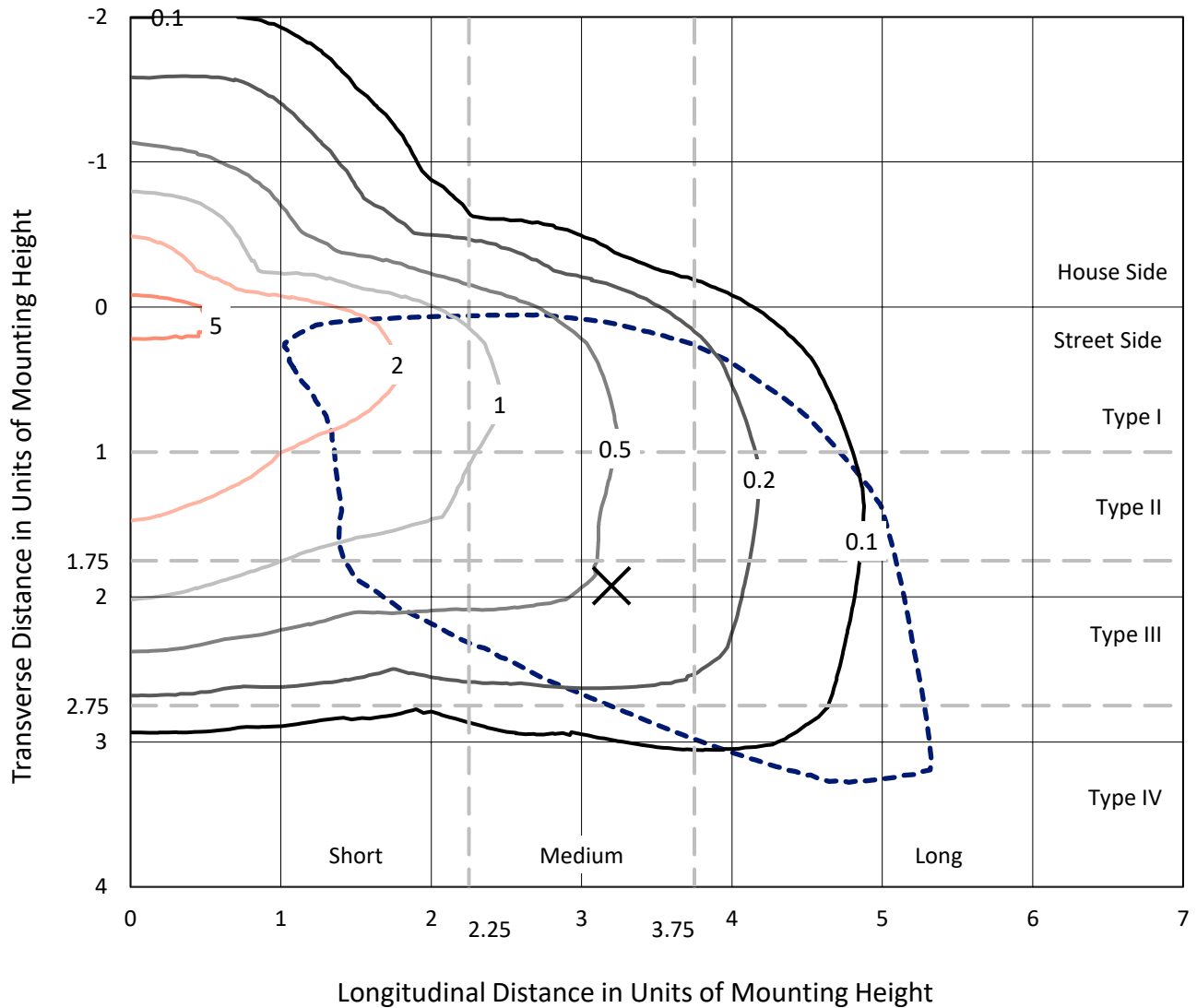
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

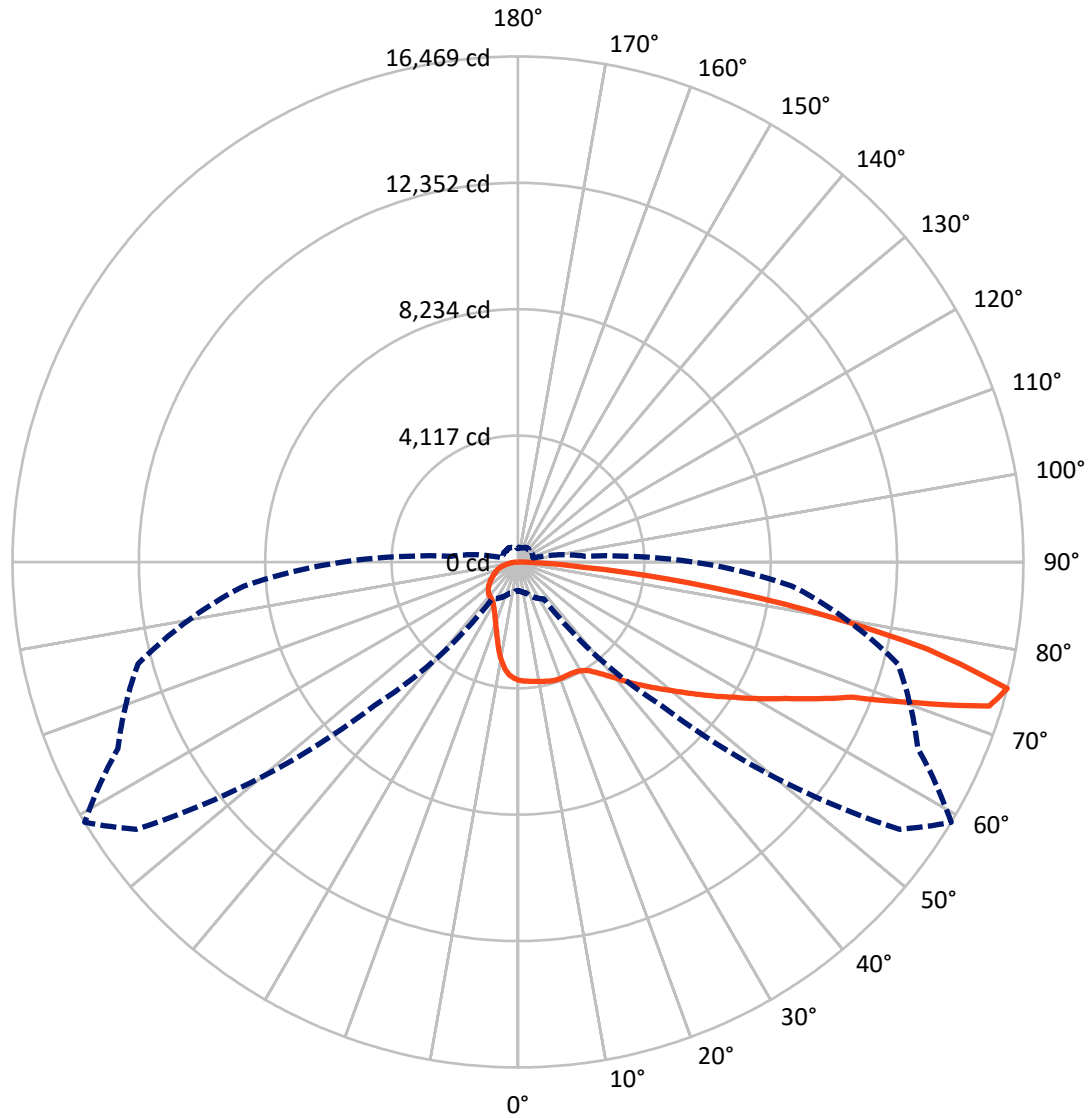
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3939.8	0.0	3939.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17066.2	0.0	17066.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	21006.0	0.0	21006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.7	1.6
10°-20°	883.7	4.2
20°-30°	1342.2	6.4
30°-40°	1995.2	9.5
40°-50°	2967.2	14.1
50°-60°	4027.6	19.2
60°-70°	4917.1	23.4
70°-80°	3858.8	18.4
80°-90°	668.4	3.2
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°	21006.0	100.0
0°-180°	21006.0	100.0

Coefficient of Utilization



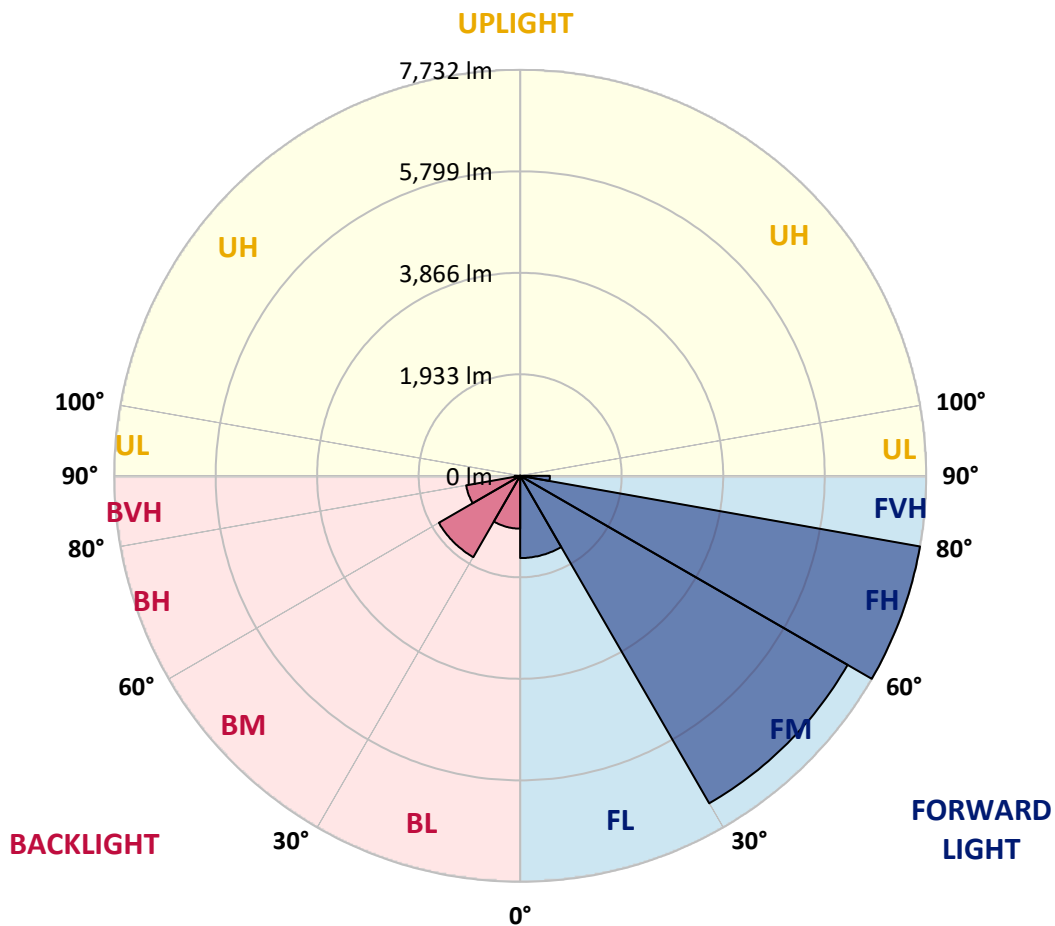
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.2	7.5			
FM (30°-60°)	7201.7	34.3			
FH (60°-80°)	7732.1	36.8			G4/12000
FVH (80°-90°)	566.1	2.7			G4/750
BL (0°-30°)	1005.4	4.8	B3/2500		
BM (30°-60°)	1788.3	8.5	B2/2500		
BH (60°-80°)	1043.8	5.0	B3/2500		G3/2500
BVH (80°-90°)	102.3	0.5			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°	45°	55°	59°	65°	75°
0°	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6
2.5°	3888.4	3874.8	3888.4	3882.7	3880.5	3875.9	3877.1	3885.0	3880.5	3886.1
5°	3862.4	3854.5	3868.0	3864.6	3879.3	3881.6	3896.3	3905.3	3911.0	3912.1
7.5°	3819.4	3811.5	3830.7	3846.6	3878.2	3887.2	3917.8	3932.4	3940.4	3953.9
10°	3662.4	3659.0	3706.4	3766.3	3840.9	3887.2	3933.6	3958.4	3970.9	4007.0
12.5°	3384.4	3388.9	3451.1	3566.3	3715.5	3864.6	3951.7	3987.8	4007.0	4052.2
15°	3118.8	3117.7	3185.5	3308.7	3517.7	3765.2	3960.7	4022.8	4055.6	4122.3
17.5°	2965.2	2960.6	3008.1	3101.9	3296.2	3612.7	3938.1	4042.1	4112.1	4195.7
20°	2936.9	2927.9	2952.7	2999.1	3136.9	3445.4	3879.3	4042.1	4157.3	4265.8
22.5°	3039.7	3025.0	3014.9	3009.2	3070.2	3307.5	3812.7	4028.5	4224.0	4366.4
25°	3246.5	3223.9	3171.9	3121.1	3103.0	3245.4	3753.9	4025.1	4323.4	4502.0
27.5°	3581.0	3552.8	3447.7	3325.6	3216.0	3277.0	3727.9	4045.4	4433.0	4645.5
30°	3995.7	3965.2	3833.0	3645.4	3448.8	3394.6	3760.7	4105.3	4573.2	4836.5
32.5°	4367.5	4333.6	4220.6	4029.6	3764.1	3598.0	3864.6	4219.5	4793.5	5102.0
35°	4697.5	4657.9	4556.2	4379.9	4150.5	3883.9	4052.2	4421.7	5106.5	5533.7
37.5°	5020.6	4974.3	4863.6	4677.1	4516.7	4264.7	4311.0	4681.6	5522.4	6058.0
40°	5382.3	5315.6	5181.1	4996.9	4841.0	4711.0	4651.1	5000.3	5945.0	6643.3
42.5°	5732.6	5669.3	5508.8	5351.7	5156.2	5119.0	5045.5	5373.2	6407.2	7286.3
45°	6110.0	6034.3	5839.9	5641.0	5517.9	5390.2	5427.5	5746.1	6860.3	7941.7
47.5°	6463.7	6378.9	6149.5	5928.0	5860.2	5618.4	5777.8	6156.3	7331.5	8606.2
50°	6654.6	6571.0	6380.1	6180.0	6126.9	5899.8	6157.4	6607.2	7825.3	9268.4
52.5°	6814.0	6723.6	6473.8	6363.1	6347.3	6206.0	6625.3	7122.5	8319.2	9853.7
55°	6983.5	6882.9	6564.2	6464.8	6537.1	6549.6	7180.1	7706.7	8841.2	10424.4
57.5°	7179.0	7051.3	6651.3	6550.7	6722.4	6951.8	7817.4	8312.4	9354.2	10953.2
60°	7363.2	7234.3	6818.5	6687.4	6922.5	7418.5	8548.5	9045.8	9935.1	11424.4
62.5°	7399.3	7293.1	6951.8	6950.7	7193.7	7963.2	9414.1	9785.9	10442.5	11890.0
65°	6773.3	6706.6	6504.4	6940.5	7582.4	8747.4	10378.0	10732.9	11087.7	12296.8
67.5°	5155.1	5164.2	5149.5	5991.3	7268.2	9874.1	11773.6	11746.5	11884.3	12753.3
70°	2357.2	2410.3	2756.1	4135.8	5823.0	10004.0	14081.1	13729.7	12884.4	13344.3
72.5°	1273.5	1314.2	1455.5	2003.5	3500.8	8894.3	15805.5	16055.2	14214.4	13742.1
75°	934.5	957.1	1055.4	1273.5	1470.1	6610.6	15187.4	16468.8	14380.5	12814.3
77.5°	699.5	709.6	789.9	1009.1	752.6	3485.0	12135.2	13639.3	12310.4	10528.3
80°	507.4	518.7	578.6	757.1	527.7	1274.7	8332.7	9573.5	8431.0	6711.1
82.5°	350.3	354.8	380.8	515.3	368.4	494.9	4728.0	5613.9	4706.5	2354.9
85°	211.3	217.0	228.3	300.6	209.1	235.0	2040.8	2110.9	1406.9	562.7
87.5°	87.0	92.7	101.7	126.6	82.5	65.5	336.7	422.6	263.3	165.0
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°
3855.6	0°	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6
3866.9	2.5°	3861.3	3853.3	3831.9	3802.5	3775.4	3741.5	3726.8	3714.4	3703.1	3681.6
3897.4	5°	3885.0	3863.5	3805.9	3731.3	3646.6	3553.9	3463.5	3401.3	3348.2	3308.7
3932.4	7.5°	3921.1	3880.5	3775.4	3622.8	3428.5	3229.6	3049.9	2922.2	2826.2	2791.1
3982.2	10°	3958.4	3909.8	3726.8	3457.8	3122.2	2816.0	2577.6	2446.5	2369.6	2344.8
4040.9	12.5°	4002.5	3931.3	3651.1	3228.4	2779.8	2444.2	2236.3	2159.5	2119.9	2106.3
4113.2	15°	4066.9	3949.4	3536.9	2941.4	2453.3	2173.0	2038.5	1985.4	1965.1	1964.0
4187.8	17.5°	4115.5	3952.8	3359.5	2634.1	2202.4	2009.2	1898.4	1878.1	1891.6	1912.0
4261.3	20°	4169.7	3922.3	3126.7	2353.8	2026.1	1865.7	1819.3	1832.9	1865.7	1895.0
4358.5	22.5°	4208.2	3866.9	2845.4	2135.7	1873.6	1783.2	1780.9	1809.2	1827.2	1841.9
4472.6	25°	4242.1	3773.1	2547.0	1952.7	1748.1	1733.4	1758.3	1749.3	1736.8	1749.3
4586.7	27.5°	4266.9	3625.1	2280.4	1792.2	1660.0	1699.5	1684.8	1664.5	1663.4	1670.2
4721.2	30°	4259.0	3427.3	2061.1	1639.6	1597.8	1636.3	1601.2	1597.8	1594.4	1597.8
4923.5	32.5°	4259.0	3202.5	1892.8	1534.6	1558.3	1543.6	1540.2	1532.3	1518.7	1517.6
5198.1	35°	4282.7	2977.6	1748.1	1478.1	1525.5	1490.5	1492.7	1473.5	1445.3	1431.7
5561.9	37.5°	4331.3	2796.8	1604.6	1450.9	1467.9	1466.8	1457.7	1424.9	1375.2	1332.3
6016.2	40°	4448.9	2743.7	1506.3	1438.5	1440.8	1454.3	1430.6	1367.3	1254.3	1184.3
6477.2	42.5°	4633.1	2832.9	1484.8	1408.0	1422.7	1436.2	1389.9	1243.0	1162.8	1121.0
6960.9	45°	4867.0	2988.9	1531.2	1363.9	1379.7	1403.5	1265.6	1195.6	1159.4	1160.5
7440.0	47.5°	5163.0	3152.7	1617.0	1325.5	1317.6	1331.2	1183.1	1140.2	1090.5	1102.9
7899.9	50°	5505.4	3318.8	1698.4	1273.5	1248.7	1204.6	1130.0	1089.3	1026.1	996.7
8344.0	52.5°	5876.1	3479.3	1731.2	1210.2	1174.1	1123.2	1093.9	1044.1	967.3	918.7
8763.3	55°	6227.5	3625.1	1695.0	1134.5	1099.5	1060.0	1055.4	1024.9	942.4	874.6
9136.2	57.5°	6559.7	3747.1	1604.6	1057.7	1023.8	1000.1	1030.6	1015.9	911.9	824.9
9488.7	60°	6841.1	3830.7	1473.5	979.7	956.0	943.6	989.9	985.4	869.0	771.8
9805.1	62.5°	7064.8	3863.5	1328.9	905.1	899.5	876.9	933.4	933.4	814.7	719.8
10083.1	65°	7240.0	3831.9	1182.0	831.7	843.0	809.1	864.5	857.7	757.1	673.5
10402.9	67.5°	7394.8	3727.9	1019.3	759.4	785.4	742.4	792.1	776.3	693.8	627.2
10679.8	70°	7463.7	3486.1	833.9	687.0	718.7	676.9	719.8	690.4	622.6	577.4
10375.8	72.5°	6910.0	2897.4	656.5	611.3	638.5	604.6	641.8	607.9	545.8	525.5
8959.9	75°	5716.7	2174.1	505.1	528.8	549.2	523.2	548.1	523.2	466.7	481.4
6618.5	77.5°	4151.7	1467.9	386.5	441.8	450.9	437.3	458.8	430.5	379.7	376.3
3298.5	80°	2064.5	859.9	302.8	349.2	345.8	336.7	361.6	348.0	305.1	323.2
890.5	82.5°	597.8	368.4	220.4	245.2	238.4	240.7	258.8	265.6	397.8	394.4
276.9	85°	187.6	144.6	132.2	136.7	130.0	133.3	152.6	302.8	280.2	163.9
85.9	87.5°	48.6	49.7	32.8	35.0	36.2	42.9	48.6	184.2	88.1	57.6
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>
3855.6
3671.4
3275.9
2730.1
2306.4
2109.7
1968.5
1919.9
1905.2
1849.8
1757.2
1681.5
1610.3
1532.3
1445.3
1347.0
1193.3
1121.0
1166.2
1134.5
1004.6
917.6
874.6
820.4
768.4
716.4
669.0
622.6
568.4
508.5
439.6
359.3
319.8
403.4
177.4
61.0
0.0

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