

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: P947421

Luminaire Tested: **GALN-SB2D-740-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947421  
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-SB2D-740-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

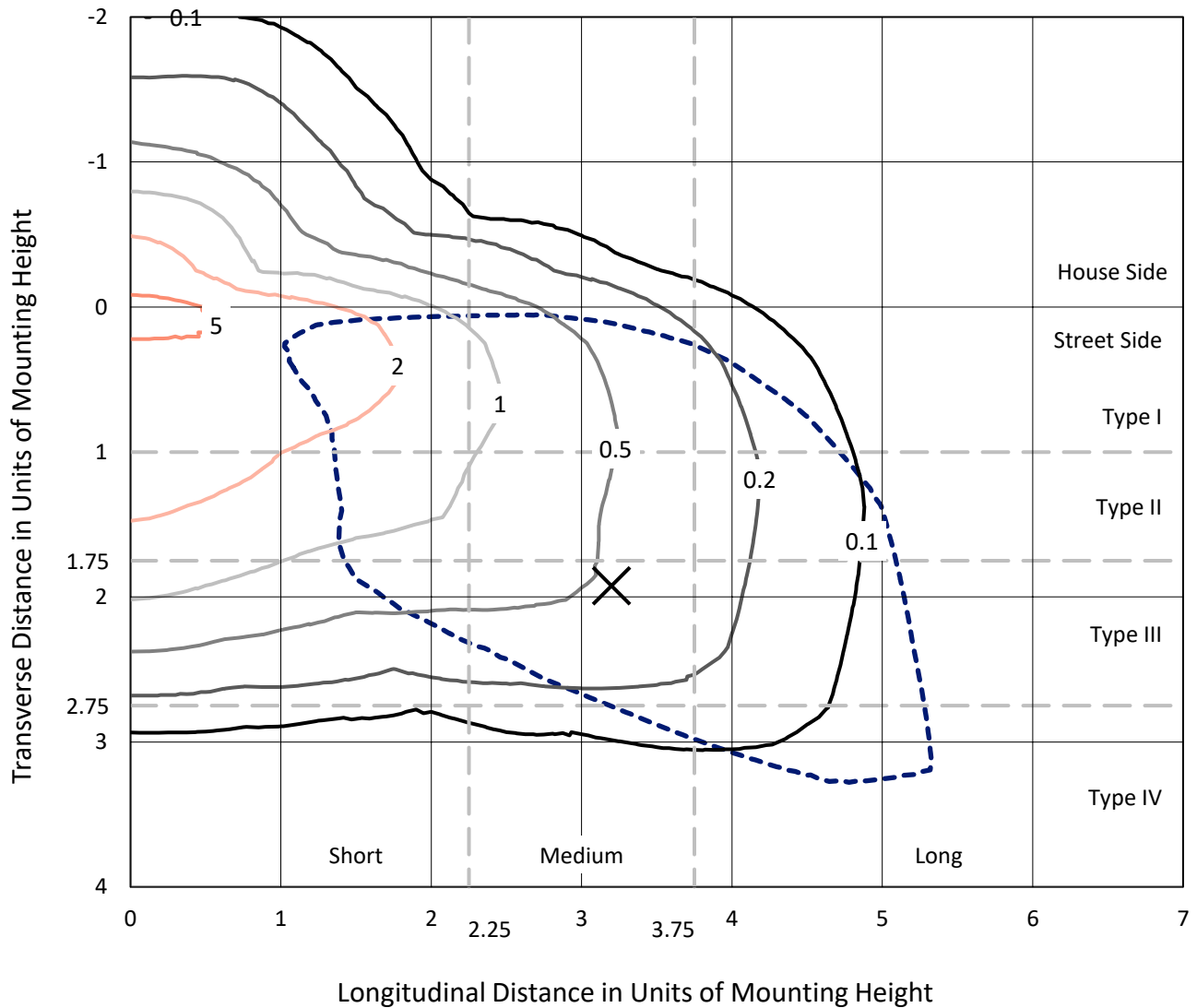
Lumens per Lamp: N/A  
Luminaire Lumens: 21042 lumens  
Efficiency: N/A  
Efficacy: 142.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

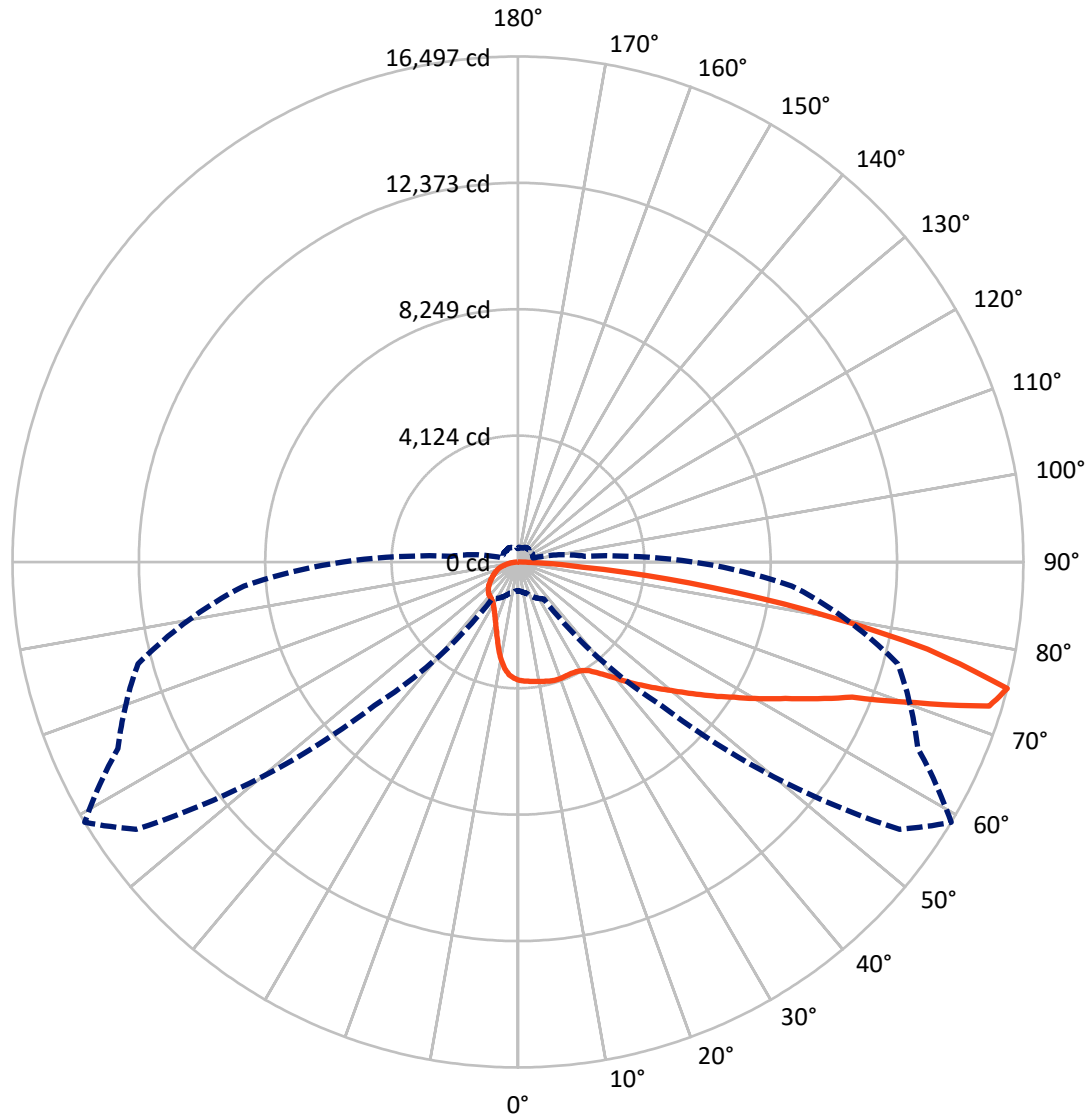
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	3946.6	0.0	3946.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	17095.4	0.0	17095.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	21042.0	0.0	21042.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.3	1.6
10°-20°	885.2	4.2
20°-30°	1344.5	6.4
30°-40°	1998.6	9.5
40°-50°	2972.3	14.1
50°-60°	4034.5	19.2
60°-70°	4925.5	23.4
70°-80°	3865.5	18.4
80°-90°	669.6	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°	21042.0	100.0
0°-180°	21042.0	100.0



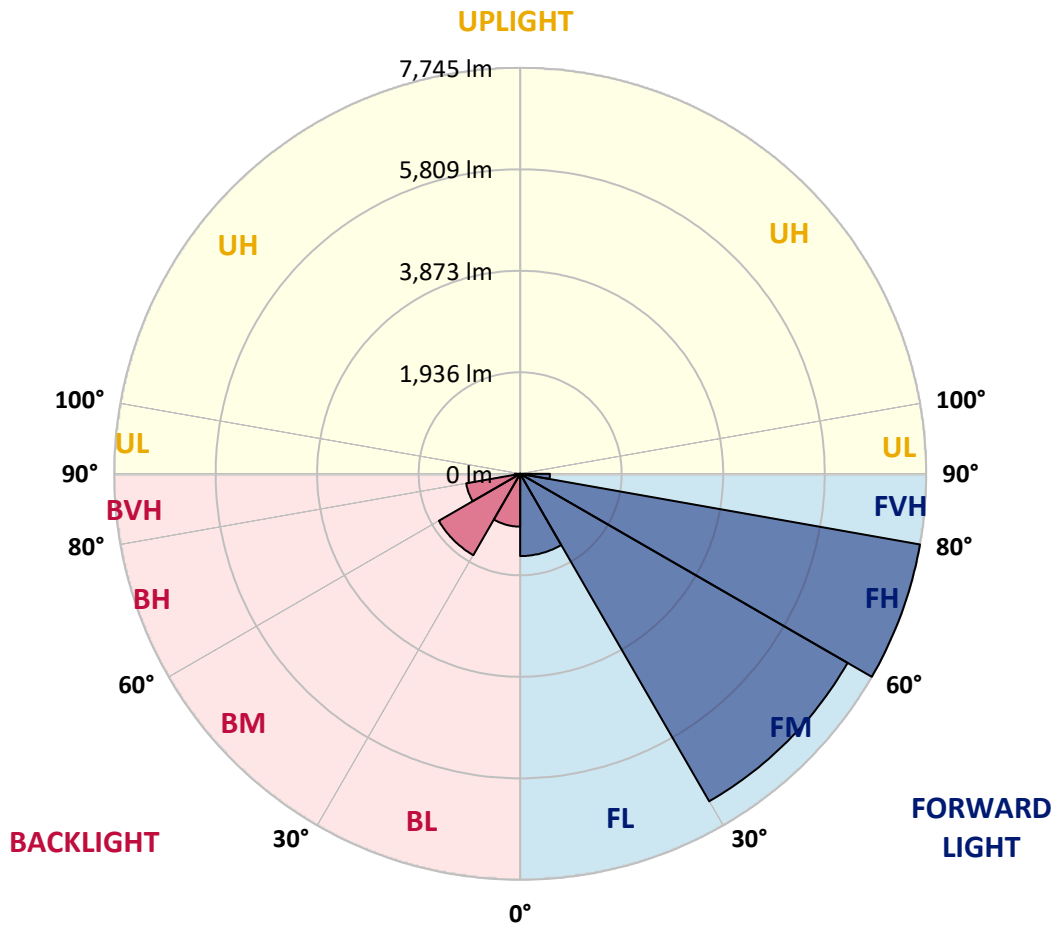
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1568.9	7.5			
FM (30°-60°)	7214.1	34.3			
FH (60°-80°)	7745.4	36.8			G4/12000
FVH (80°-90°)	567.1	2.7			G4/750
BL (0°-30°)	1007.1	4.8	B3/2500		
BM (30°-60°)	1791.3	8.5	B2/2500		
BH (60°-80°)	1045.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	102.5	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°	3862.2	3862.2	3862.2	3862.2	3862.2	3862.2	3862.2	3862.2	3862.2	3862.2
2.5°	3895.0	3881.5	3895.0	3889.4	3887.1	3882.6	3883.7	3891.6	3887.1	3892.8
5°	3869.0	3861.1	3874.7	3871.3	3886.0	3888.2	3903.0	3912.0	3917.7	3918.8
7.5°	3826.0	3818.1	3837.3	3853.2	3884.9	3893.9	3924.5	3939.2	3947.1	3960.7
10°	3668.6	3665.3	3712.8	3772.8	3847.5	3893.9	3940.3	3965.2	3977.7	4013.9
12.5°	3390.2	3394.7	3457.0	3572.4	3721.9	3871.3	3958.4	3994.7	4013.9	4059.2
15°	3124.2	3123.0	3191.0	3314.3	3523.8	3771.7	3967.5	4029.7	4062.6	4129.4
17.5°	2970.2	2965.7	3013.2	3107.2	3301.9	3618.8	3944.8	4049.0	4119.2	4202.9
20°	2941.9	2932.9	2957.8	3004.2	3142.3	3451.3	3886.0	4049.0	4164.4	4273.1
22.5°	3044.9	3030.2	3020.0	3014.4	3075.5	3313.2	3819.2	4035.4	4231.2	4373.9
25°	3252.1	3229.5	3177.4	3126.4	3108.3	3251.0	3760.3	4032.0	4330.8	4509.7
27.5°	3587.1	3558.8	3453.6	3331.3	3221.5	3282.7	3734.3	4052.4	4440.6	4653.4
30°	4002.6	3972.0	3839.6	3651.7	3454.7	3400.4	3767.1	4112.4	4581.0	4844.7
32.5°	4375.0	4341.0	4227.8	4036.5	3770.5	3604.1	3871.3	4226.7	4801.7	5110.8
35°	4705.5	4665.9	4564.0	4387.4	4157.7	3890.5	4059.2	4429.3	5115.3	5543.2
37.5°	5029.3	4982.8	4871.9	4685.1	4524.4	4272.0	4318.4	4689.7	5531.8	6068.4
40°	5391.5	5324.7	5190.0	5005.5	4849.3	4719.1	4659.1	5008.9	5955.2	6654.7
42.5°	5742.4	5679.0	5518.3	5360.9	5165.1	5127.7	5054.2	5382.4	6418.2	7298.8
45°	6120.5	6044.6	5849.9	5650.7	5527.3	5399.4	5436.8	5756.0	6872.1	7955.3
47.5°	6474.8	6389.9	6160.1	5938.2	5870.3	5628.1	5787.7	6166.9	7344.1	8620.9
50°	6666.1	6582.3	6391.0	6190.6	6137.4	5909.9	6168.0	6618.5	7838.8	9284.3
52.5°	6825.7	6735.1	6484.9	6374.0	6358.2	6216.7	6636.6	7134.7	8333.4	9870.6
55°	6995.4	6894.7	6575.5	6475.9	6548.3	6560.8	7192.4	7719.9	8856.4	10442.2
57.5°	7191.3	7063.4	6662.7	6561.9	6734.0	6963.8	7830.8	8326.6	9370.3	10972.0
60°	7375.8	7246.7	6830.2	6698.9	6934.3	7431.2	8563.2	9061.3	9952.1	11444.0
62.5°	7412.0	7305.6	6963.8	6962.6	7206.0	7976.8	9430.3	9802.7	10460.3	11910.4
65°	6784.9	6718.1	6515.5	6952.4	7595.4	8762.4	10395.8	10751.3	11106.7	12317.9
67.5°	5164.0	5173.0	5158.3	6001.6	7280.7	9891.0	11793.8	11766.6	11904.7	12775.2
70°	2361.2	2414.4	2760.8	4142.9	5832.9	10021.2	14105.2	13753.2	12906.5	13367.2
72.5°	1275.7	1316.5	1458.0	2006.9	3506.8	8909.6	15832.6	16082.7	14238.8	13765.6
75°	936.1	958.8	1057.2	1275.7	1472.7	6621.9	15213.4	16497.0	14405.2	12836.3
77.5°	700.7	710.9	791.2	1010.8	753.9	3490.9	12156.0	13662.6	12331.5	10546.4
80°	508.2	519.6	579.6	758.4	528.6	1276.8	8347.0	9589.9	8445.5	6722.6
82.5°	350.9	355.4	381.5	516.2	369.0	495.8	4736.1	5623.5	4714.6	2359.0
85°	211.7	217.3	228.7	301.1	209.4	235.4	2044.3	2114.5	1409.3	563.7
87.5°	87.2	92.8	101.9	126.8	82.6	65.7	337.3	423.3	263.7	165.3
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°
3862.2	0°	3862.2	3862.2	3862.2	3862.2	3862.2	3862.2	3862.2	3862.2	3862.2	3862.2
3873.5	2.5°	3867.9	3859.9	3838.4	3809.0	3781.8	3747.9	3733.2	3720.7	3709.4	3687.9
3904.1	5°	3891.6	3870.1	3812.4	3737.7	3652.8	3560.0	3469.4	3407.2	3354.0	3314.3
3939.2	7.5°	3927.9	3887.1	3781.8	3629.0	3434.3	3235.1	3055.1	2927.2	2831.0	2795.9
3989.0	10°	3965.2	3916.5	3733.2	3463.8	3127.6	2820.8	2582.0	2450.7	2373.7	2348.8
4047.9	12.5°	4009.4	3938.1	3657.3	3234.0	2784.6	2448.4	2240.1	2163.2	2123.5	2110.0
4120.3	15°	4073.9	3956.2	3543.0	2946.5	2457.5	2176.7	2042.0	1988.8	1968.5	1967.3
4195.0	17.5°	4122.6	3959.6	3365.3	2638.6	2206.2	2012.6	1901.7	1881.3	1894.9	1915.3
4268.6	20°	4176.9	3929.0	3132.1	2357.9	2029.6	1868.8	1822.4	1836.0	1868.8	1898.3
4365.9	22.5°	4215.4	3873.5	2850.2	2139.4	1876.8	1786.2	1784.0	1812.3	1830.4	1845.1
4480.3	25°	4249.3	3779.6	2551.4	1956.0	1751.1	1736.4	1761.3	1752.3	1739.8	1752.3
4594.6	27.5°	4274.2	3631.3	2284.3	1795.3	1662.8	1702.5	1687.7	1667.4	1666.2	1673.0
4729.3	30°	4266.3	3433.2	2064.7	1642.5	1600.6	1639.1	1604.0	1600.6	1597.2	1600.6
4931.9	32.5°	4266.3	3207.9	1896.0	1537.2	1561.0	1546.2	1542.8	1534.9	1521.3	1520.2
5207.0	35°	4290.1	2982.7	1751.1	1480.6	1528.1	1493.0	1495.3	1476.1	1447.8	1434.2
5571.5	37.5°	4338.8	2801.6	1607.4	1453.4	1470.4	1469.3	1460.2	1427.4	1377.6	1334.6
6026.5	40°	4456.5	2748.4	1508.9	1441.0	1443.2	1456.8	1433.0	1369.7	1256.5	1186.3
6488.3	42.5°	4641.0	2837.8	1487.4	1410.4	1425.1	1438.7	1392.3	1245.1	1164.8	1122.9
6972.8	45°	4875.3	2994.0	1533.8	1366.3	1382.1	1405.9	1267.8	1197.6	1161.4	1162.5
7452.8	47.5°	5171.9	3158.1	1619.8	1327.8	1319.9	1333.4	1185.2	1142.1	1092.3	1104.8
7913.5	50°	5514.9	3324.5	1701.3	1275.7	1250.8	1206.7	1131.9	1091.2	1027.8	998.4
8358.3	52.5°	5886.1	3485.3	1734.1	1212.3	1176.1	1125.2	1095.7	1045.9	968.9	920.3
8778.3	55°	6238.2	3631.3	1697.9	1136.5	1101.4	1061.8	1057.2	1026.7	944.0	876.1
9151.8	57.5°	6571.0	3753.5	1607.4	1059.5	1025.5	1001.8	1032.3	1017.6	913.5	826.3
9505.0	60°	6852.8	3837.3	1476.1	981.4	957.6	945.2	991.6	987.1	870.5	773.1
9821.9	62.5°	7076.9	3870.1	1331.2	906.7	901.0	878.4	935.0	935.0	816.1	721.1
10100.4	65°	7252.4	3838.4	1184.0	833.1	844.4	810.5	865.9	859.1	758.4	674.6
10420.7	67.5°	7407.5	3734.3	1021.0	760.7	786.7	743.7	793.5	777.6	695.0	628.2
10698.1	70°	7476.5	3492.1	835.4	688.2	719.9	678.0	721.1	691.6	623.7	578.4
10393.6	72.5°	6921.9	2902.3	657.7	612.4	639.6	605.6	642.9	609.0	546.7	526.4
8975.2	75°	5726.5	2177.9	506.0	529.8	550.1	524.1	549.0	524.1	467.5	482.2
6629.8	77.5°	4158.8	1470.4	387.1	442.6	451.6	438.1	459.6	431.3	380.3	376.9
3304.2	80°	2068.1	861.4	303.4	349.8	346.4	337.3	362.2	348.6	305.6	323.7
892.0	82.5°	598.8	369.0	220.7	245.6	238.8	241.1	259.2	266.0	398.4	395.1
277.3	85°	187.9	144.9	132.4	137.0	130.2	133.6	152.8	303.4	280.7	164.1
86.0	87.5°	48.7	49.8	32.8	35.1	36.2	43.0	48.7	184.5	88.3	57.7
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>
3862.2
3677.7
3281.5
2734.8
2310.3
2113.3
1971.9
1923.2
1908.5
1853.0
1760.2
1684.3
1613.0
1534.9
1447.8
1349.3
1195.3
1122.9
1168.2
1136.5
1006.3
919.1
876.1
821.8
769.7
717.7
670.1
623.7
569.4
509.4
440.3
360.0
320.3
404.1
177.7
61.1
0.0

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