

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: P947400

Luminaire Tested: **GALN-SB2D-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947400
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-735-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 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: 19889 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

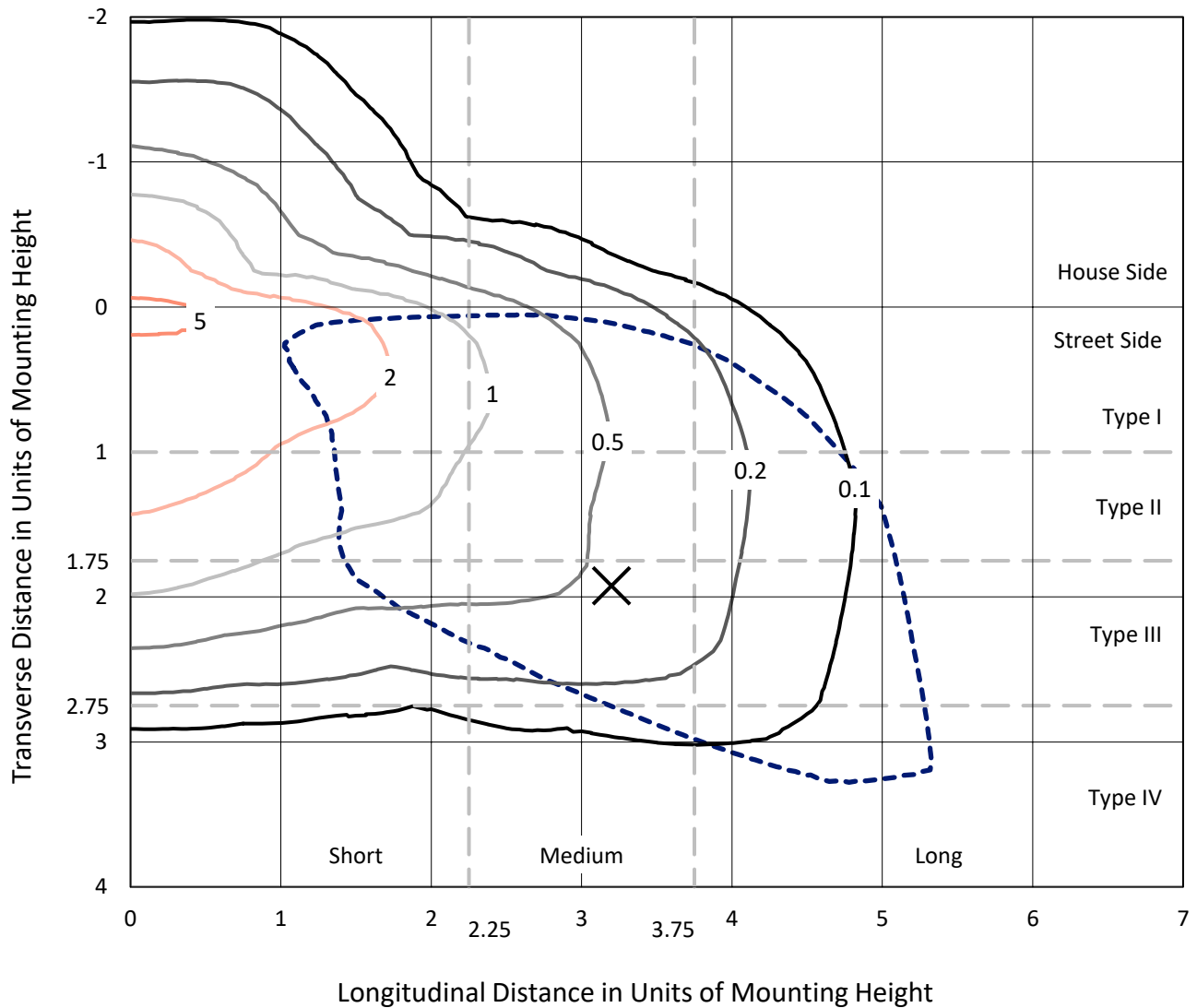
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

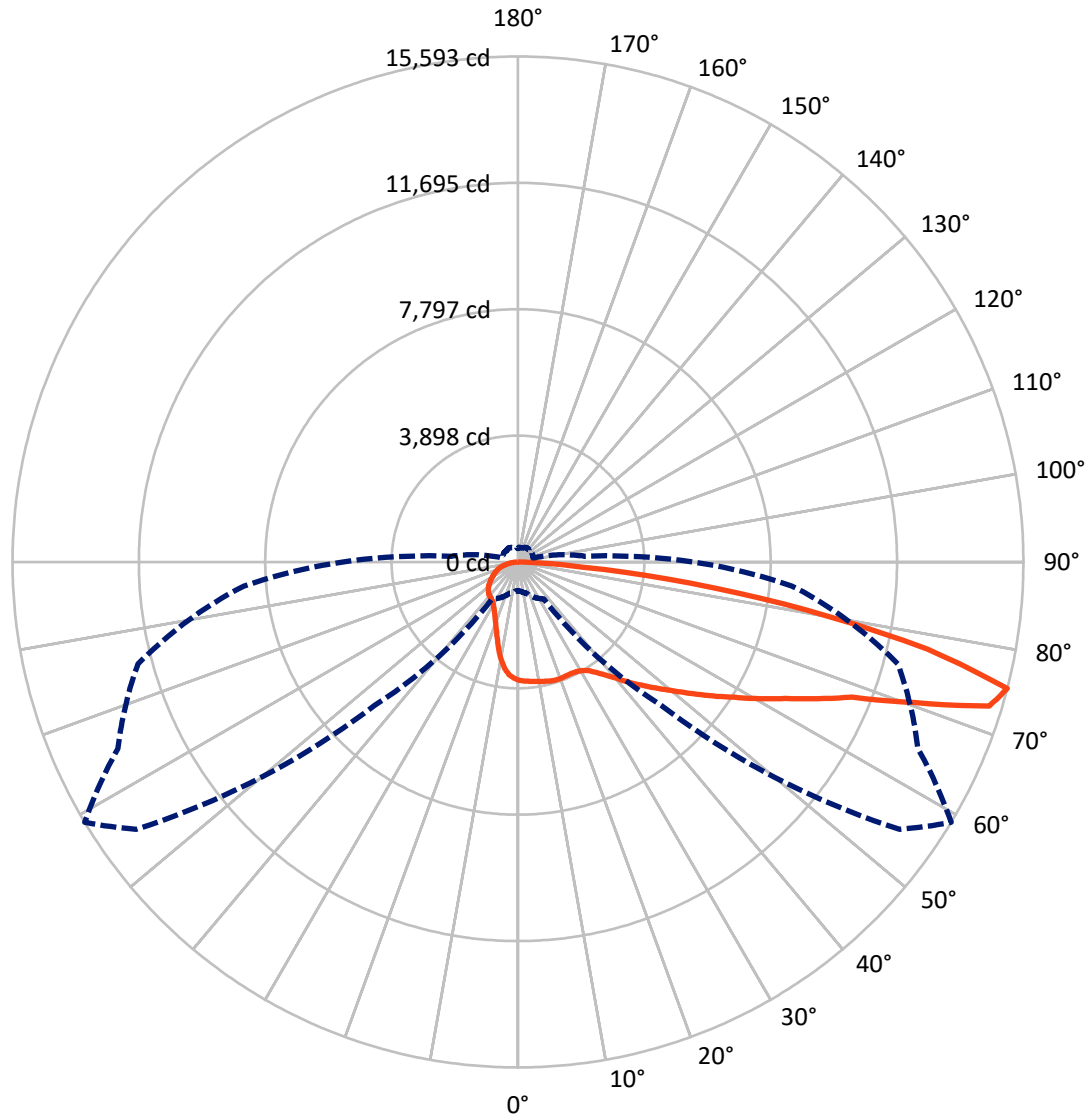
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	3730.3	0.0	3730.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16158.7	0.0	16158.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	19889.0	0.0	19889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.3	1.6
10°-20°	836.7	4.2
20°-30°	1270.9	6.4
30°-40°	1889.1	9.5
40°-50°	2809.4	14.1
50°-60°	3813.5	19.2
60°-70°	4655.6	23.4
70°-80°	3653.6	18.4
80°-90°	632.9	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°	19889.0	100.0
0°-180°	19889.0	100.0

Coefficient of Utilization



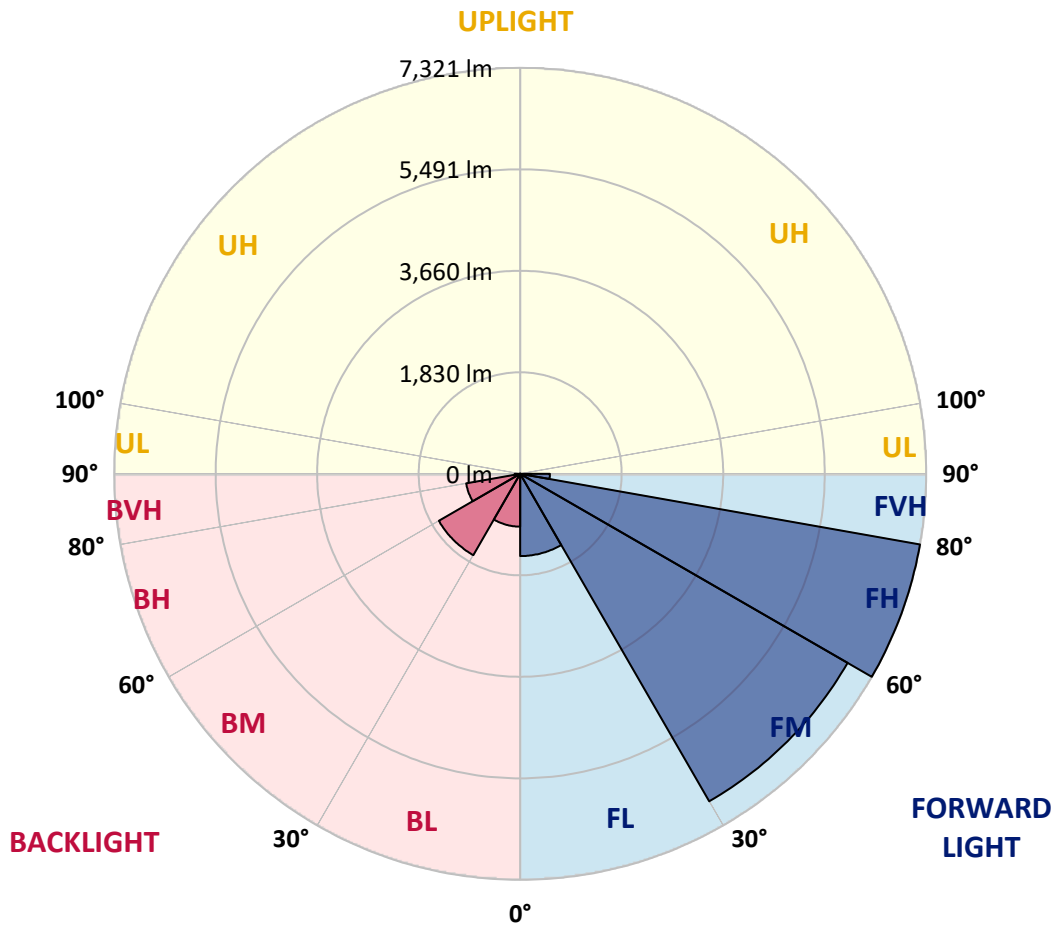
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.9	7.5			
FM (30°-60°)	6818.8	34.3			
FH (60°-80°)	7320.9	36.8			G3/7500
FVH (80°-90°)	536.0	2.7			G4/750
BL (0°-30°)	951.9	4.8	B2/1000		
BM (30°-60°)	1693.2	8.5	B2/2500		
BH (60°-80°)	988.3	5.0	B2/1000		G2/1000
BVH (80°-90°)	96.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3650.6	3650.6	3650.6	3650.6	3650.6	3650.6	3650.6	3650.6	3650.6	3650.6
2.5°	3681.6	3668.8	3681.6	3676.3	3674.1	3669.8	3670.9	3678.4	3674.1	3679.5
5°	3657.0	3649.5	3662.4	3659.1	3673.1	3675.2	3689.1	3697.7	3703.0	3704.1
7.5°	3616.3	3608.9	3627.0	3642.0	3672.0	3680.5	3709.4	3723.3	3730.8	3743.7
10°	3467.6	3464.4	3509.4	3566.1	3636.7	3680.5	3724.4	3747.9	3759.7	3794.0
12.5°	3204.4	3208.7	3267.5	3376.7	3517.9	3659.1	3741.5	3775.8	3794.0	3836.7
15°	2953.0	2951.9	3016.1	3132.7	3330.7	3565.0	3750.1	3808.9	3840.0	3903.1
17.5°	2807.5	2803.2	2848.1	2936.9	3121.0	3420.5	3728.7	3827.1	3893.5	3972.6
20°	2780.7	2772.2	2795.7	2839.6	2970.1	3262.2	3673.1	3827.1	3936.3	4039.0
22.5°	2878.1	2864.2	2854.6	2849.2	2907.0	3131.7	3609.9	3814.3	3999.4	4134.2
25°	3073.9	3052.5	3003.3	2955.1	2938.0	3072.8	3554.3	3811.1	4093.5	4262.6
27.5°	3390.6	3363.8	3264.3	3148.8	3045.0	3102.8	3529.7	3830.3	4197.3	4398.5
30°	3783.3	3754.4	3629.2	3451.6	3265.4	3214.1	3560.7	3887.0	4330.0	4579.3
32.5°	4135.3	4103.2	3996.2	3815.3	3563.9	3406.6	3659.1	3995.1	4538.6	4830.7
35°	4447.7	4410.2	4313.9	4147.0	3929.8	3677.3	3836.7	4186.6	4835.0	5239.4
37.5°	4753.7	4709.8	4605.0	4428.4	4276.5	4037.9	4081.8	4432.7	5228.7	5735.9
40°	5096.0	5032.9	4905.6	4731.2	4583.6	4460.5	4403.8	4734.4	5628.9	6290.1
42.5°	5427.7	5367.8	5215.9	5067.2	4882.1	4846.8	4777.2	5087.5	6066.5	6898.9
45°	5785.1	5713.4	5529.4	5341.1	5224.4	5103.5	5138.8	5440.6	6495.5	7519.4
47.5°	6120.0	6039.7	5822.5	5612.8	5548.6	5319.7	5470.5	5828.9	6941.7	8148.5
50°	6300.8	6221.6	6040.8	5851.4	5801.1	5586.1	5830.0	6255.8	7409.2	8775.5
52.5°	6451.6	6366.0	6129.6	6024.7	6009.8	5876.0	6273.0	6743.7	7876.8	9329.7
55°	6612.1	6516.9	6215.2	6121.0	6189.5	6201.3	6798.3	7296.9	8371.1	9870.1
57.5°	6797.2	6676.3	6297.6	6202.4	6365.0	6582.2	7401.7	7870.4	8856.8	10370.8
60°	6971.6	6849.7	6455.9	6331.8	6554.4	7024.1	8094.0	8564.7	9406.8	10816.9
62.5°	7005.9	6905.3	6582.2	6581.1	6811.1	7539.8	8913.5	9265.5	9887.2	11257.7
65°	6413.1	6350.0	6158.5	6571.5	7179.2	8282.3	9826.2	10162.1	10498.1	11642.9
67.5°	4881.0	4889.6	4875.6	5672.7	6881.8	9349.0	11147.5	11121.9	11252.4	12075.2
70°	2231.9	2282.1	2609.5	3915.9	5513.3	9472.0	13332.3	12999.6	12199.3	12634.7
72.5°	1205.8	1244.3	1378.1	1897.0	3314.6	8421.4	14965.0	15201.5	13458.6	13011.3
75°	884.8	906.2	999.3	1205.8	1392.0	6259.1	14379.8	15593.1	13615.9	12132.9
77.5°	662.3	671.9	747.9	955.4	712.6	3299.6	11489.9	12914.0	11655.8	9968.5
80°	480.4	491.1	547.8	716.8	499.7	1206.9	7889.6	9064.4	7982.7	6354.3
82.5°	331.7	336.0	360.6	487.9	348.8	468.6	4476.6	5315.4	4456.2	2229.7
85°	200.1	205.4	216.1	284.6	197.9	222.5	1932.3	1998.6	1332.1	532.8
87.5°	82.4	87.7	96.3	119.8	78.1	62.1	318.8	400.2	249.3	156.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947400
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3650.6	0°	3650.6	3650.6	3650.6	3650.6	3650.6	3650.6	3650.6	3650.6	3650.6	3650.6
3661.3	2.5°	3655.9	3648.4	3628.1	3600.3	3574.6	3542.5	3528.6	3516.8	3506.1	3485.8
3690.2	5°	3678.4	3658.1	3603.5	3532.9	3452.6	3364.9	3279.3	3220.5	3170.2	3132.7
3723.3	7.5°	3712.6	3674.1	3574.6	3430.2	3246.2	3057.8	2887.7	2766.8	2675.9	2642.7
3770.4	10°	3747.9	3701.9	3528.6	3274.0	2956.2	2666.3	2440.5	2316.4	2243.6	2220.1
3826.0	12.5°	3789.7	3722.3	3456.9	3056.8	2632.0	2314.2	2117.4	2044.6	2007.2	1994.3
3894.5	15°	3850.7	3739.4	3348.9	2785.0	2322.8	2057.5	1930.1	1879.9	1860.6	1859.5
3965.1	17.5°	3896.7	3742.6	3180.9	2494.0	2085.3	1902.3	1797.5	1778.2	1791.1	1810.3
4034.7	20°	3948.0	3713.7	2960.5	2228.7	1918.4	1766.4	1722.6	1735.4	1766.4	1794.3
4126.7	22.5°	3984.4	3661.3	2694.1	2022.2	1773.9	1688.3	1686.2	1712.9	1730.1	1744.0
4234.8	25°	4016.5	3572.5	2411.6	1848.8	1655.2	1641.3	1664.8	1656.2	1644.5	1656.2
4342.8	27.5°	4040.0	3432.3	2159.1	1696.9	1571.7	1609.2	1595.3	1576.0	1574.9	1581.3
4470.1	30°	4032.5	3245.1	1951.5	1552.5	1512.9	1549.3	1516.1	1512.9	1509.7	1512.9
4661.7	32.5°	4032.5	3032.2	1792.1	1453.0	1475.4	1461.5	1458.3	1450.8	1438.0	1436.9
4921.7	35°	4055.0	2819.3	1655.2	1399.5	1444.4	1411.2	1413.4	1395.2	1368.4	1355.6
5266.2	37.5°	4101.0	2648.1	1519.3	1373.8	1389.8	1388.8	1380.2	1349.2	1302.1	1261.4
5696.3	40°	4212.3	2597.8	1426.2	1362.0	1364.2	1377.0	1354.5	1294.6	1187.6	1121.3
6132.8	42.5°	4386.7	2682.3	1405.9	1333.1	1347.0	1359.9	1316.0	1176.9	1101.0	1061.4
6590.7	45°	4608.2	2829.9	1449.7	1291.4	1306.4	1328.8	1198.3	1132.0	1097.7	1098.8
7044.4	47.5°	4888.5	2985.1	1531.1	1255.0	1247.5	1260.4	1120.2	1079.6	1032.5	1044.2
7479.8	50°	5212.7	3142.4	1608.1	1205.8	1182.3	1140.5	1069.9	1031.4	971.5	943.7
7900.3	52.5°	5563.6	3294.3	1639.1	1145.9	1111.7	1063.5	1035.7	988.6	915.9	869.8
8297.3	55°	5896.4	3432.3	1604.9	1074.2	1041.0	1003.6	999.3	970.4	892.3	828.1
8650.3	57.5°	6210.9	3547.9	1519.3	1001.4	969.4	946.9	975.8	961.9	863.4	781.0
8984.2	60°	6477.3	3627.0	1395.2	927.6	905.2	893.4	937.3	933.0	822.8	730.8
9283.7	62.5°	6689.2	3658.1	1258.2	857.0	851.7	830.3	883.8	883.8	771.4	681.5
9546.9	65°	6855.0	3628.1	1119.1	787.5	798.2	766.1	818.5	812.1	716.8	637.7
9849.7	67.5°	7001.6	3529.7	965.1	719.0	743.6	702.9	750.0	735.0	656.9	593.8
10111.9	70°	7066.8	3300.7	789.6	650.5	680.5	640.9	681.5	653.7	589.5	546.7
9824.0	72.5°	6542.6	2743.3	621.6	578.8	604.5	572.4	607.7	575.6	516.8	497.5
8483.4	75°	5412.7	2058.5	478.3	500.7	520.0	495.4	518.9	495.4	441.9	455.8
6266.5	77.5°	3930.9	1389.8	365.9	418.3	426.9	414.1	434.4	407.6	359.5	356.3
3123.1	80°	1954.8	814.2	286.7	330.6	327.4	318.8	342.4	329.5	288.9	306.0
843.1	82.5°	566.0	348.8	208.6	232.2	225.8	227.9	245.0	251.4	376.6	373.4
262.1	85°	177.6	137.0	125.2	129.5	123.0	126.3	144.4	286.7	265.3	155.1
81.3	87.5°	46.0	47.1	31.0	33.2	34.2	40.7	46.0	174.4	83.5	54.6
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>
3650.6
3476.2
3101.7
2584.9
2183.7
1997.5
1863.8
1817.8
1803.9
1751.5
1663.7
1592.0
1524.6
1450.8
1368.4
1275.3
1129.8
1061.4
1104.2
1074.2
951.2
868.8
828.1
776.8
727.5
678.3
633.4
589.5
538.2
481.5
416.2
340.2
302.8
382.0
168.0
57.8
0.0

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