

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: P945627

Luminaire Tested: **GALN-SB1C-735-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945627  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-735-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

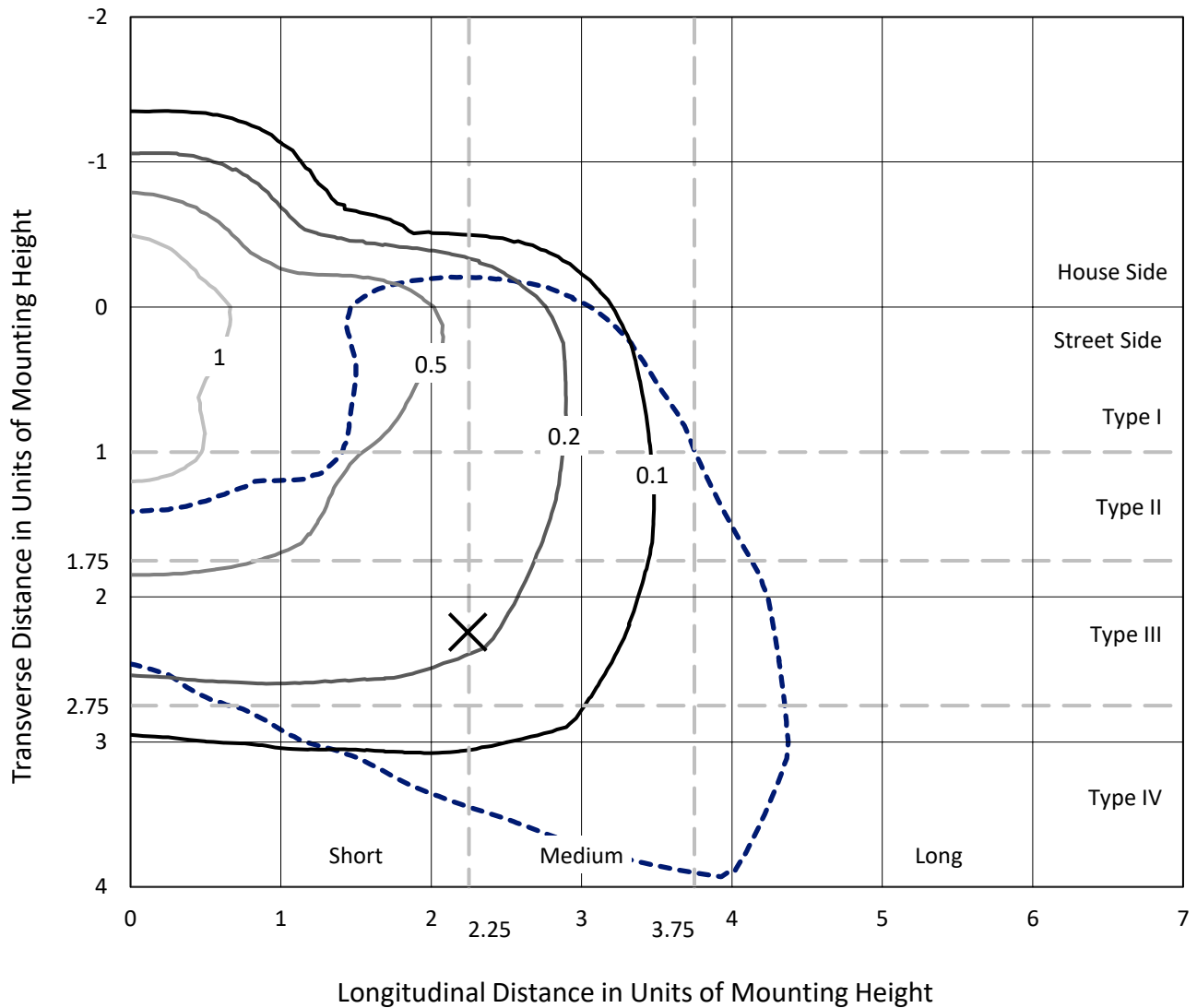
Lumens per Lamp: N/A  
Luminaire Lumens: 7477 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

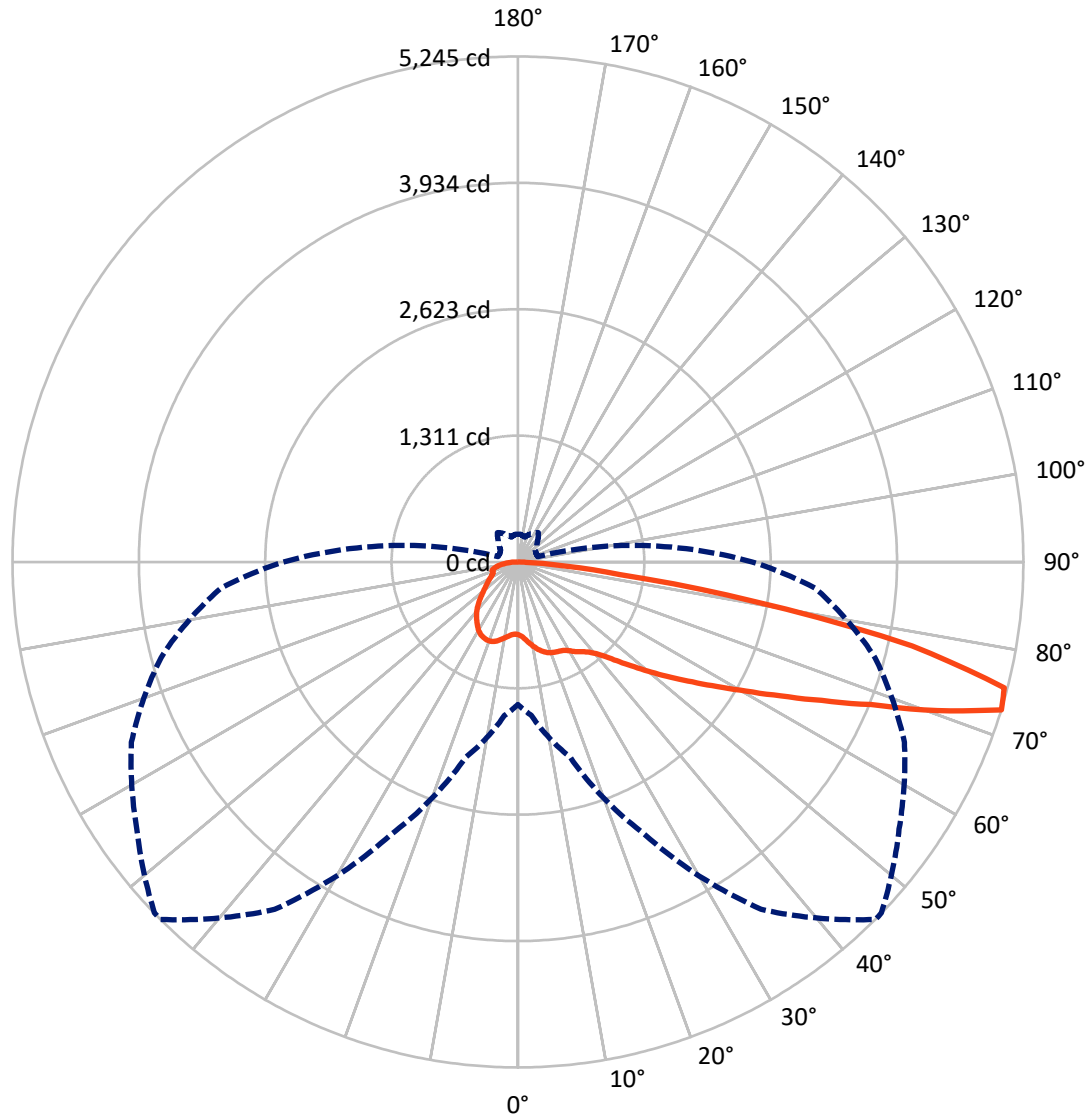
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1690.3	0.0	1690.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	5786.7	0.0	5786.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	7477.0	0.0	7477.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.8	1.0
10°-20°	256.0	3.4
20°-30°	445.3	6.0
30°-40°	638.3	8.5
40°-50°	898.8	12.0
50°-60°	1376.7	18.4
60°-70°	1994.3	26.7
70°-80°	1592.6	21.3
80°-90°	198.4	2.7
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°	7477.0	100.0
0°-180°	7477.0	100.0

**Coefficient of Utilization**



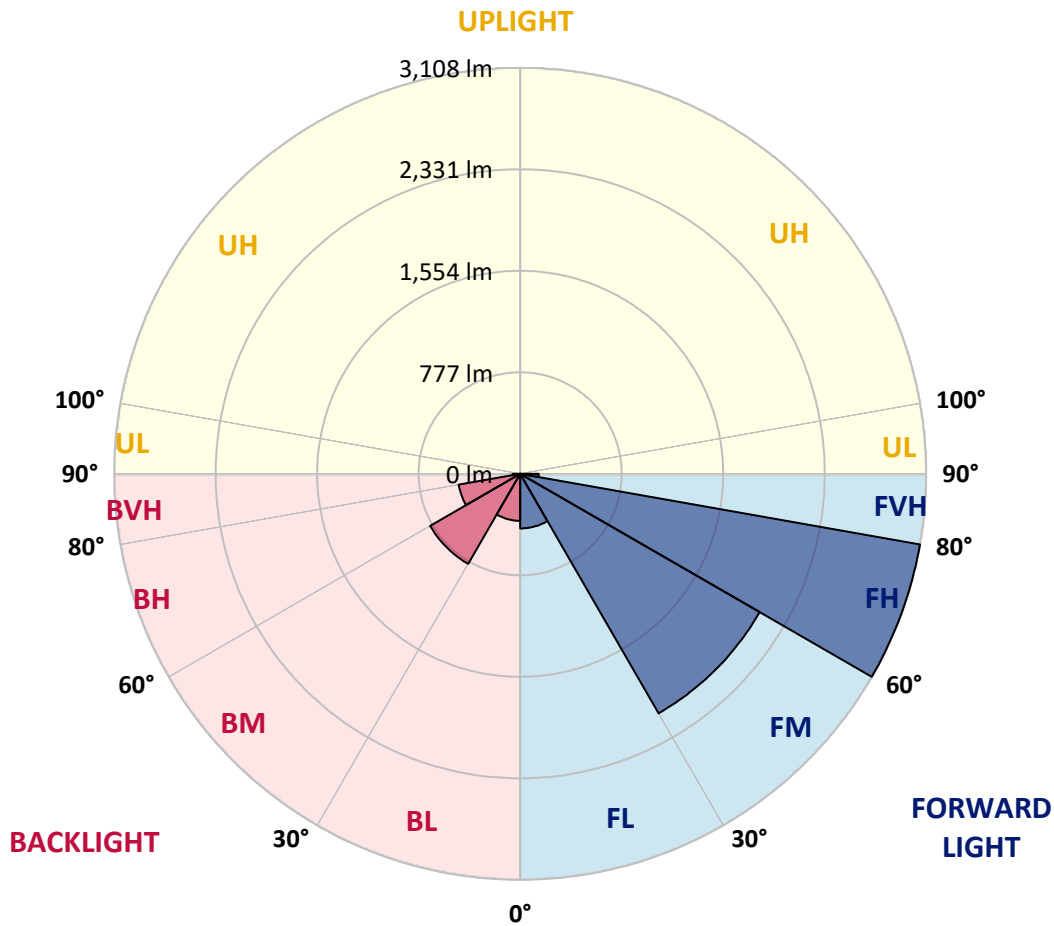
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	418.1	5.6			
FM (30°-60°)	2117.9	28.3			
FH (60°-80°)	3108.4	41.6			G2/5000
FVH (80°-90°)	142.3	1.9			G2/225
BL (0°-30°)	359.9	4.8	B1/500		
BM (30°-60°)	795.9	10.6	B1/1000		
BH (60°-80°)	478.5	6.4	B1/500		G1/500
BVH (80°-90°)	56.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	754.3	754.3	754.3	754.3	754.3	754.3	754.3	754.3	754.3	754.3
2.5°	783.8	788.9	784.2	779.9	777.9	772.8	772.4	769.3	767.3	761.8
5°	838.6	845.3	837.4	828.7	820.8	808.2	806.7	797.6	787.4	775.6
7.5°	900.4	906.3	897.3	884.3	870.5	849.6	849.2	832.7	816.5	796.4
10°	954.4	962.3	950.0	932.3	915.0	891.4	888.6	869.7	849.2	823.2
12.5°	1002.0	1007.5	995.7	974.1	954.0	930.3	926.8	905.9	883.1	853.5
15°	1039.8	1046.9	1031.2	1007.9	986.7	963.4	960.3	941.4	918.5	887.4
17.5°	1064.7	1070.6	1054.4	1028.4	1007.9	988.6	986.3	970.5	950.4	918.9
20°	1074.1	1080.4	1063.5	1037.1	1018.2	1003.2	1002.0	990.6	976.8	948.1
22.5°	1083.6	1089.5	1067.4	1039.8	1023.3	1013.9	1013.5	1006.0	1000.5	976.8
25°	1121.8	1123.4	1093.8	1054.0	1030.4	1022.1	1021.7	1021.3	1023.7	1005.2
27.5°	1154.9	1154.5	1129.3	1091.8	1055.2	1037.9	1037.5	1041.4	1048.9	1033.5
30°	1203.3	1199.0	1169.0	1130.0	1096.6	1069.8	1067.4	1063.9	1069.8	1057.6
32.5°	1306.1	1292.3	1243.9	1174.6	1130.8	1110.4	1107.2	1085.1	1087.5	1080.0
35°	1453.4	1435.3	1370.7	1258.8	1173.4	1144.2	1142.7	1114.7	1110.0	1103.3
37.5°	1628.7	1606.3	1531.0	1380.9	1246.6	1183.6	1181.3	1156.0	1136.7	1129.7
40°	1804.8	1776.4	1714.2	1529.8	1354.6	1249.4	1241.9	1203.7	1181.6	1169.8
42.5°	1975.7	1952.1	1898.9	1696.8	1487.7	1345.5	1329.0	1263.6	1247.0	1236.0
45°	2127.0	2105.7	2066.7	1875.3	1643.7	1476.3	1460.1	1353.4	1348.3	1348.3
47.5°	2249.9	2245.1	2203.8	2057.2	1827.6	1625.2	1597.2	1478.2	1492.0	1513.3
50°	2386.1	2373.1	2329.0	2236.5	2043.9	1795.7	1772.9	1631.5	1683.1	1741.4
52.5°	2511.4	2518.5	2469.2	2423.2	2288.1	1986.0	1945.8	1812.3	1923.7	2020.2
55°	2640.2	2640.6	2626.8	2620.5	2544.1	2196.3	2152.2	2029.7	2206.9	2326.7
57.5°	2761.1	2761.9	2782.4	2837.9	2841.1	2438.9	2388.9	2296.7	2521.6	2643.7
60°	2869.0	2874.5	2930.5	3060.5	3102.2	2717.0	2669.7	2612.2	2847.0	2969.9
62.5°	2905.3	2925.4	3049.8	3234.6	3360.2	3058.1	3011.6	2977.4	3188.9	3303.1
65°	2843.8	2889.9	3130.6	3378.3	3625.7	3463.4	3417.3	3379.9	3544.1	3651.7
67.5°	2693.0	2752.4	3125.8	3529.2	3947.9	3951.0	3908.1	3820.3	3925.0	3966.4
70°	2295.5	2384.6	2850.5	3585.5	4317.7	4617.9	4576.5	4350.4	4305.1	4105.0
72.5°	1479.0	1598.8	2099.0	3121.9	4400.1	5245.3	5243.0	4829.0	4425.3	3835.6
75°	539.6	612.9	975.3	1959.6	3693.4	5213.4	5228.8	4747.1	4039.7	2962.8
77.5°	196.5	215.1	318.3	753.1	2271.5	4183.0	4214.9	3795.1	2875.3	1486.9
80°	103.2	113.4	163.1	292.3	973.3	2484.2	2534.2	2255.4	1351.4	447.8
82.5°	57.1	61.8	91.4	158.7	438.4	1062.3	1092.2	891.0	475.4	189.9
85°	30.7	32.7	42.9	86.7	214.3	368.3	376.6	266.3	189.5	111.5
87.5°	9.1	11.0	14.2	27.6	83.9	82.7	84.7	52.8	74.8	56.3
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°
754.3	0°	754.3	754.3	754.3	754.3	754.3	754.3	754.3	754.3	754.3	754.3
760.2	2.5°	757.8	756.6	752.3	750.3	748.0	747.6	749.6	750.0	750.3	750.7
768.9	5°	764.9	761.0	757.0	754.7	755.5	755.9	759.8	762.6	764.5	766.1
785.0	7.5°	778.7	775.6	768.9	768.5	769.6	773.2	778.3	784.6	788.2	790.9
805.9	10°	799.2	793.3	785.4	786.6	788.9	794.1	804.7	809.8	815.7	820.8
831.5	12.5°	820.1	814.9	805.9	806.7	810.6	819.7	829.9	836.2	840.2	844.1
859.1	15°	847.2	838.2	828.3	828.3	835.4	845.3	850.0	855.1	857.5	861.8
888.6	17.5°	875.2	863.4	850.4	849.6	858.3	863.0	865.8	866.5	867.3	872.1
917.4	20°	903.2	890.2	871.7	870.1	872.1	871.3	870.9	870.1	871.3	877.2
946.9	22.5°	930.7	915.8	890.2	883.1	877.6	870.1	869.7	869.3	870.1	876.0
978.8	25°	963.0	944.9	910.7	889.4	870.9	860.6	861.8	862.2	863.0	867.7
1011.9	27.5°	998.1	978.0	929.6	887.4	853.9	846.8	844.9	846.1	848.8	856.3
1045.0	30°	1033.2	1009.5	946.9	879.5	832.7	822.8	816.5	819.3	827.9	835.4
1073.7	32.5°	1065.1	1041.4	960.7	862.2	805.5	790.1	781.9	785.4	794.1	796.8
1105.6	35°	1102.5	1075.7	966.6	834.6	775.9	752.3	741.3	736.2	740.5	737.7
1143.0	37.5°	1144.2	1116.3	965.8	798.4	741.3	714.1	698.7	679.4	670.4	660.9
1198.2	40°	1206.1	1165.9	956.3	754.7	698.4	673.5	646.0	613.3	592.8	574.3
1287.2	42.5°	1290.4	1234.8	939.0	706.6	649.9	626.7	589.2	551.0	518.7	488.0
1422.3	45°	1416.0	1325.0	917.4	655.4	597.5	574.7	534.1	491.2	454.5	415.2
1614.1	47.5°	1597.2	1446.3	896.9	597.1	542.4	521.5	484.9	445.1	401.8	363.6
1891.4	50°	1846.1	1620.4	878.0	540.4	488.0	472.3	443.1	402.5	358.8	328.1
2216.4	52.5°	2162.8	1857.2	870.1	485.7	437.2	431.3	408.1	370.2	328.9	302.9
2595.3	55°	2526.4	2140.4	870.1	433.3	392.7	394.7	378.5	343.5	307.6	284.4
2986.0	57.5°	2897.4	2427.1	854.3	384.8	354.9	363.2	352.9	322.2	289.9	265.9
3396.8	60°	3239.3	2667.4	790.5	340.7	321.4	334.4	327.7	301.3	261.9	241.8
3740.3	62.5°	3502.0	2802.9	667.6	305.7	293.8	308.8	305.3	273.7	256.8	248.5
4022.3	65°	3633.6	2780.8	510.5	274.5	270.6	293.8	286.4	285.2	271.8	262.3
4114.1	67.5°	3552.8	2591.0	370.2	251.7	257.2	280.1	308.8	313.5	288.7	270.2
3855.7	70°	3198.7	2247.5	275.7	230.0	240.3	280.4	352.1	328.1	283.2	261.5
3092.4	72.5°	2433.4	1676.0	213.9	207.2	218.2	282.4	371.4	321.4	267.4	289.1
1926.5	75°	1391.6	920.1	171.7	179.2	190.6	263.9	361.6	304.1	255.2	265.5
763.3	77.5°	530.6	353.7	141.8	151.6	153.2	230.4	345.8	302.9	243.0	237.1
228.8	80°	183.9	138.3	117.4	120.5	118.6	204.8	331.6	263.5	198.9	178.0
94.5	82.5°	75.2	68.9	93.0	89.0	84.3	159.1	267.8	215.5	162.7	143.8
45.7	85°	32.7	43.7	61.4	54.0	48.8	110.3	214.7	182.4	137.5	118.6
15.0	87.5°	6.7	16.5	26.0	24.4	25.2	73.7	152.4	129.6	97.3	72.9
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

180°  
754.3  
752.3  
766.9  
791.7  
819.7  
845.7  
863.4  
873.6  
879.5  
879.9  
874.0  
863.8  
843.7  
806.7  
746.4  
666.8  
575.5  
485.3  
410.4  
359.2  
326.1  
300.9  
282.0  
261.9  
238.7  
245.8  
259.2  
267.1  
258.0  
**286.7**  
265.5  
216.2  
172.1  
142.2  
118.2  
57.1  
0.0

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