

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: P939082

Luminaire Tested: **GALN-SB1C-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939082
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-SB1C-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7426 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

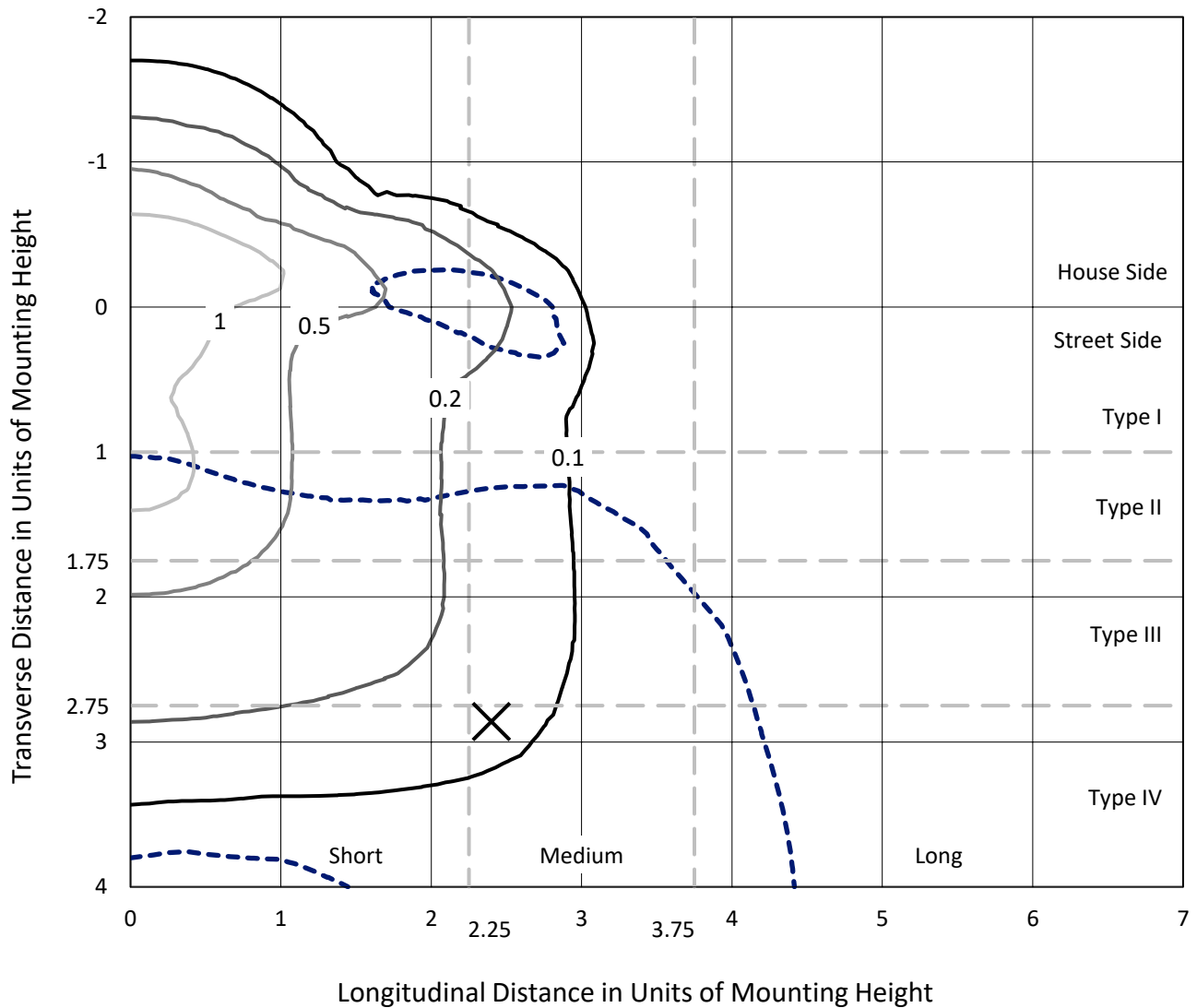
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

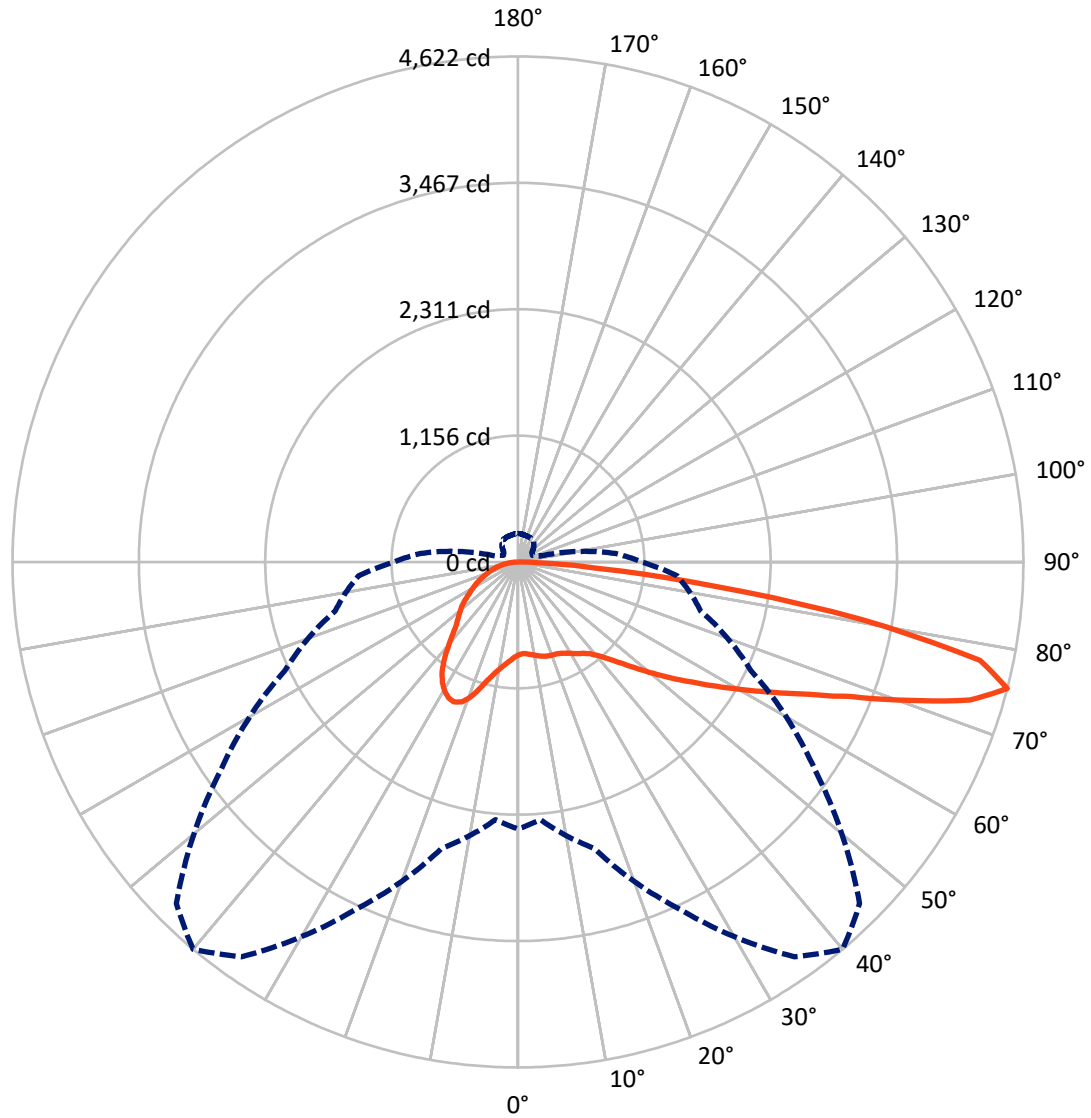
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	2300.8	0.0	2300.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	5125.2	0.0	5125.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	7426.0	0.0	7426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	1.1
10°-20°	284.6	3.8
20°-30°	519.6	7.0
30°-40°	737.0	9.9
40°-50°	995.2	13.4
50°-60°	1338.8	18.0
60°-70°	1699.2	22.9
70°-80°	1542.1	20.8
80°-90°	224.8	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°	7426.0	100.0
0°-180°	7426.0	100.0

Coefficient of Utilization



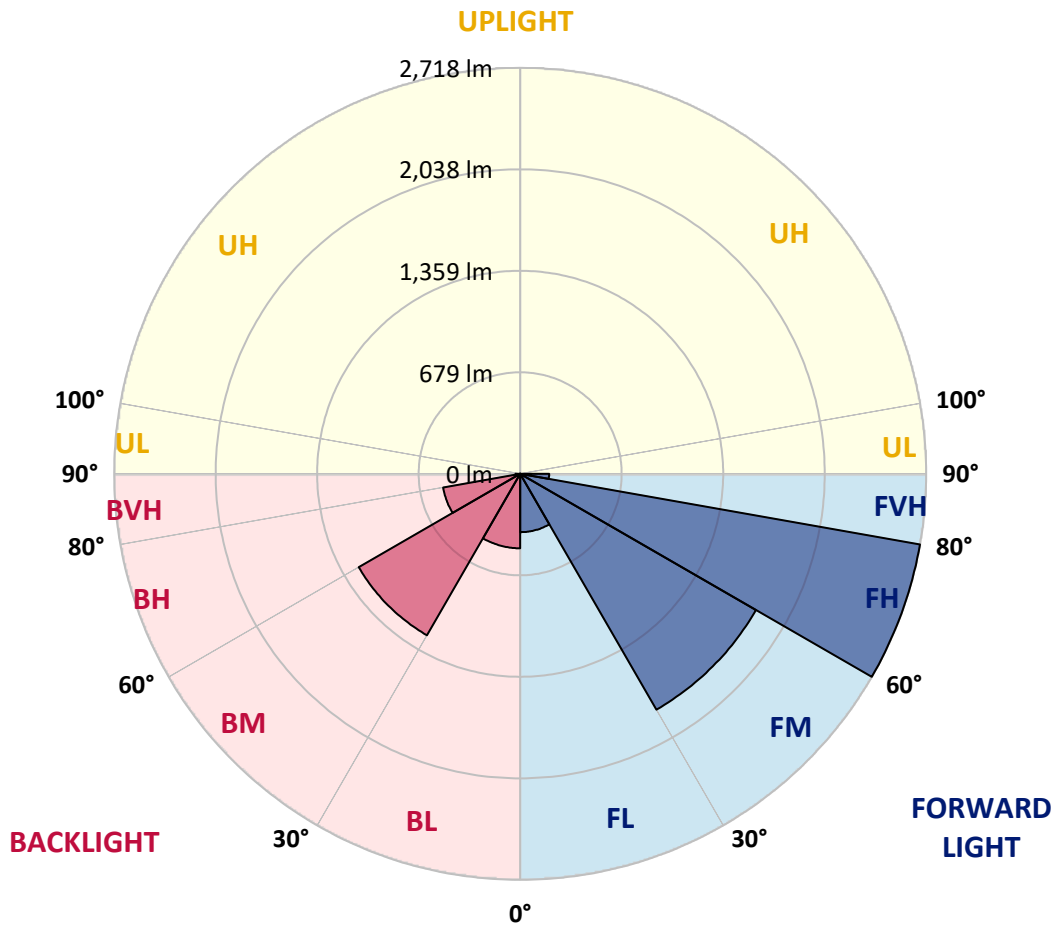
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.6	5.3			
FM (30°-60°)	1822.9	24.5			
FH (60°-80°)	2717.8	36.6			G2/5000
FVH (80°-90°)	193.8	2.6			G2/225
BL (0°-30°)	498.4	6.7	B1/500		
BM (30°-60°)	1248.0	16.8	B2/2500		
BH (60°-80°)	523.5	7.0	B2/1000		G2/1000
BVH (80°-90°)	30.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	849.2	849.2	849.2	849.2	849.2	849.2	849.2	849.2	849.2	849.2
2.5°	836.2	840.9	839.7	838.1	838.1	838.5	838.1	840.9	843.7	846.4
5°	844.8	849.6	847.2	845.2	843.7	843.3	842.1	841.7	843.3	846.8
7.5°	861.8	866.5	863.0	859.4	856.3	854.7	853.1	850.7	849.6	851.5
10°	880.7	885.4	881.1	874.8	869.7	867.7	866.1	863.7	862.2	863.4
12.5°	899.6	904.3	898.4	889.7	883.0	881.9	879.9	879.1	878.7	878.3
15°	917.3	921.3	913.8	903.5	896.4	894.5	892.5	893.7	895.6	898.0
17.5°	931.1	935.0	924.0	910.6	903.9	903.1	902.0	905.9	911.4	917.3
20°	943.7	947.6	933.5	915.3	907.5	907.5	907.9	916.1	924.0	932.7
22.5°	961.4	964.6	947.2	922.4	911.0	911.8	914.9	923.2	933.1	944.9
25°	987.8	990.2	968.9	935.8	922.8	925.2	927.9	931.9	941.3	955.1
27.5°	1030.4	1032.3	1004.4	959.5	939.8	943.7	947.6	944.9	949.2	961.0
30°	1090.2	1091.4	1056.0	996.5	968.5	970.5	971.3	959.8	951.6	961.0
32.5°	1161.1	1160.7	1118.6	1041.4	1001.2	999.2	992.5	970.1	950.8	959.1
35°	1271.0	1266.7	1212.3	1104.4	1038.2	1026.0	1010.3	981.5	954.7	957.1
37.5°	1453.0	1439.6	1364.3	1207.6	1093.4	1062.3	1039.0	1000.0	963.4	956.3
40°	1658.2	1641.2	1558.5	1349.0	1176.1	1126.1	1088.6	1026.4	977.6	959.8
42.5°	1901.6	1877.6	1788.5	1515.6	1280.8	1208.4	1152.1	1059.9	998.4	971.3
45°	2200.5	2168.6	2042.6	1703.5	1412.8	1316.3	1241.1	1110.7	1030.4	993.3
47.5°	2502.6	2510.5	2331.3	1918.5	1571.1	1449.4	1352.5	1187.1	1076.8	1028.8
50°	2823.6	2829.1	2618.4	2156.8	1750.7	1599.9	1477.8	1272.6	1141.4	1079.2
52.5°	3074.1	3074.9	2879.2	2406.1	1937.8	1765.3	1612.9	1370.3	1216.3	1146.1
55°	3230.9	3228.9	3061.9	2642.0	2152.9	1939.0	1762.5	1481.3	1307.6	1224.9
57.5°	3344.7	3338.8	3187.9	2844.9	2382.1	2144.2	1931.9	1607.4	1415.6	1318.7
60°	3388.0	3384.5	3273.4	3020.2	2623.1	2371.1	2127.3	1748.4	1538.0	1429.3
62.5°	3404.6	3411.3	3357.3	3189.9	2881.1	2622.4	2341.9	1916.9	1675.9	1554.6
65°	3462.9	3475.1	3464.0	3412.1	3172.6	2916.6	2626.7	2117.4	1826.4	1688.9
67.5°	3578.3	3590.5	3595.2	3677.9	3528.6	3283.3	2982.0	2367.1	2002.4	1828.3
70°	3575.5	3572.0	3655.5	3889.4	3974.5	3791.0	3460.9	2674.3	2212.3	1944.1
72.5°	3254.5	3226.1	3423.5	3887.1	4345.5	4321.1	4045.8	3070.6	2393.5	1958.3
75°	2441.6	2365.9	2714.5	3503.0	4407.3	4622.0	4417.6	3316.3	2350.6	1730.2
77.5°	1044.1	968.1	1378.9	2593.2	3944.6	4320.7	4076.5	2893.3	1876.4	1144.2
80°	273.3	272.9	416.7	1175.7	2682.6	3190.7	2799.2	1868.5	1072.1	408.8
82.5°	113.0	110.3	153.2	457.3	1310.8	1790.5	1461.2	833.4	387.2	110.7
85°	42.1	41.7	74.4	157.9	462.4	738.5	534.5	213.1	96.5	54.0
87.5°	11.8	11.4	16.1	54.7	112.6	170.9	91.4	35.1	27.2	21.3
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°
849.2	0°	849.2	849.2	849.2	849.2	849.2	849.2	849.2	849.2	849.2	849.2
850.7	2.5°	851.9	853.9	857.4	860.2	863.7	867.7	873.2	876.7	880.3	882.7
852.7	5°	855.5	859.8	868.9	877.9	888.6	898.4	909.8	918.1	924.8	926.8
859.8	7.5°	863.4	870.4	885.8	901.2	918.1	934.2	950.8	965.0	976.4	980.7
872.4	10°	877.1	886.6	908.3	929.9	952.4	977.2	998.4	1018.9	1035.1	1041.8
887.4	12.5°	894.5	906.3	934.6	964.6	995.7	1030.0	1057.5	1082.7	1102.8	1111.9
908.3	15°	916.9	932.3	968.5	1008.7	1054.4	1102.0	1137.1	1165.1	1187.5	1198.5
929.9	17.5°	941.3	961.8	1007.5	1068.2	1133.5	1196.2	1237.1	1257.6	1280.8	1291.5
950.0	20°	965.0	990.2	1055.6	1143.8	1230.8	1297.4	1330.5	1336.0	1337.6	1338.7
968.9	22.5°	989.4	1023.3	1115.8	1239.1	1332.4	1378.5	1383.3	1359.6	1326.5	1311.2
987.4	25°	1016.2	1061.1	1194.6	1344.3	1419.9	1425.4	1389.2	1331.7	1269.0	1240.3
1002.4	27.5°	1042.2	1104.8	1289.1	1444.7	1482.9	1434.5	1356.5	1274.9	1199.3	1169.0
1013.0	30°	1068.2	1154.8	1393.5	1532.5	1511.7	1412.0	1304.9	1213.9	1137.9	1106.0
1022.5	32.5°	1094.6	1213.1	1513.6	1595.9	1506.5	1364.3	1240.7	1145.4	1078.4	1044.9
1030.7	35°	1124.5	1284.8	1627.5	1630.6	1472.3	1294.2	1156.0	1063.4	1005.1	978.4
1040.6	37.5°	1163.5	1375.8	1727.9	1639.3	1412.4	1191.4	1050.8	966.5	918.5	906.3
1055.2	40°	1211.9	1485.3	1804.7	1625.5	1323.8	1066.6	935.8	868.5	841.3	844.1
1074.9	42.5°	1274.9	1607.8	1858.6	1590.0	1200.5	937.8	835.0	805.1	818.1	829.1
1104.4	45°	1356.9	1735.0	1892.1	1529.8	1061.1	828.7	775.5	782.6	792.5	793.6
1152.1	47.5°	1461.6	1863.8	1914.2	1438.8	918.9	751.9	737.7	739.3	737.3	729.0
1223.3	50°	1592.4	1989.0	1933.9	1318.3	798.0	703.8	684.9	679.4	652.2	625.5
1318.3	52.5°	1741.3	2104.0	1942.1	1168.6	703.8	663.7	632.9	598.3	547.5	539.2
1437.6	55°	1906.7	2210.4	1920.9	984.7	624.7	612.1	565.6	523.8	518.3	511.2
1594.8	57.5°	2104.4	2325.0	1877.6	779.5	543.5	551.8	506.5	511.2	501.4	490.4
1796.8	60°	2320.7	2443.5	1801.5	592.4	459.6	476.6	491.1	490.8	488.0	478.9
2009.9	62.5°	2515.2	2521.5	1651.9	453.7	386.0	418.3	458.1	457.7	455.3	450.2
2232.4	65°	2631.0	2509.7	1402.2	357.2	325.3	370.2	413.2	416.3	416.7	416.3
2399.8	67.5°	2610.5	2371.5	1059.5	284.4	275.3	321.4	368.7	373.0	376.1	376.9
2421.1	70°	2378.9	2067.8	690.8	226.9	230.8	278.5	326.5	330.8	333.6	336.8
2100.9	72.5°	1854.3	1520.3	395.4	183.5	191.8	241.4	284.8	289.9	291.5	297.4
1462.0	75°	1130.0	894.1	213.5	144.5	157.5	206.4	243.4	249.3	252.1	259.2
718.0	77.5°	537.2	387.2	121.7	112.6	126.8	168.6	205.6	212.3	204.8	208.7
198.1	80°	181.6	143.8	76.8	85.9	96.9	131.6	164.6	171.3	155.6	154.8
65.8	82.5°	63.4	58.3	48.8	57.1	62.6	94.1	124.5	133.1	115.8	115.4
29.5	85°	24.8	23.6	27.2	31.1	37.4	57.9	81.9	86.3	71.3	57.5
8.7	87.5°	5.1	5.5	6.7	7.1	11.4	20.1	29.5	36.2	28.8	24.4
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>
849.2
881.1
927.6
981.1
1042.2
1111.9
1197.7
1291.1
1341.9
1315.5
1244.6
1172.5
1109.5
1049.3
984.3
914.9
853.5
839.3
801.5
735.3
629.0
542.0
512.4
488.4
475.8
448.2
416.3
377.7
338.3
299.7
260.0
205.6
153.2
109.9
56.7
22.5
0.0

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