

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: P946946

Luminaire Tested: **GALN-SB2B-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8270 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

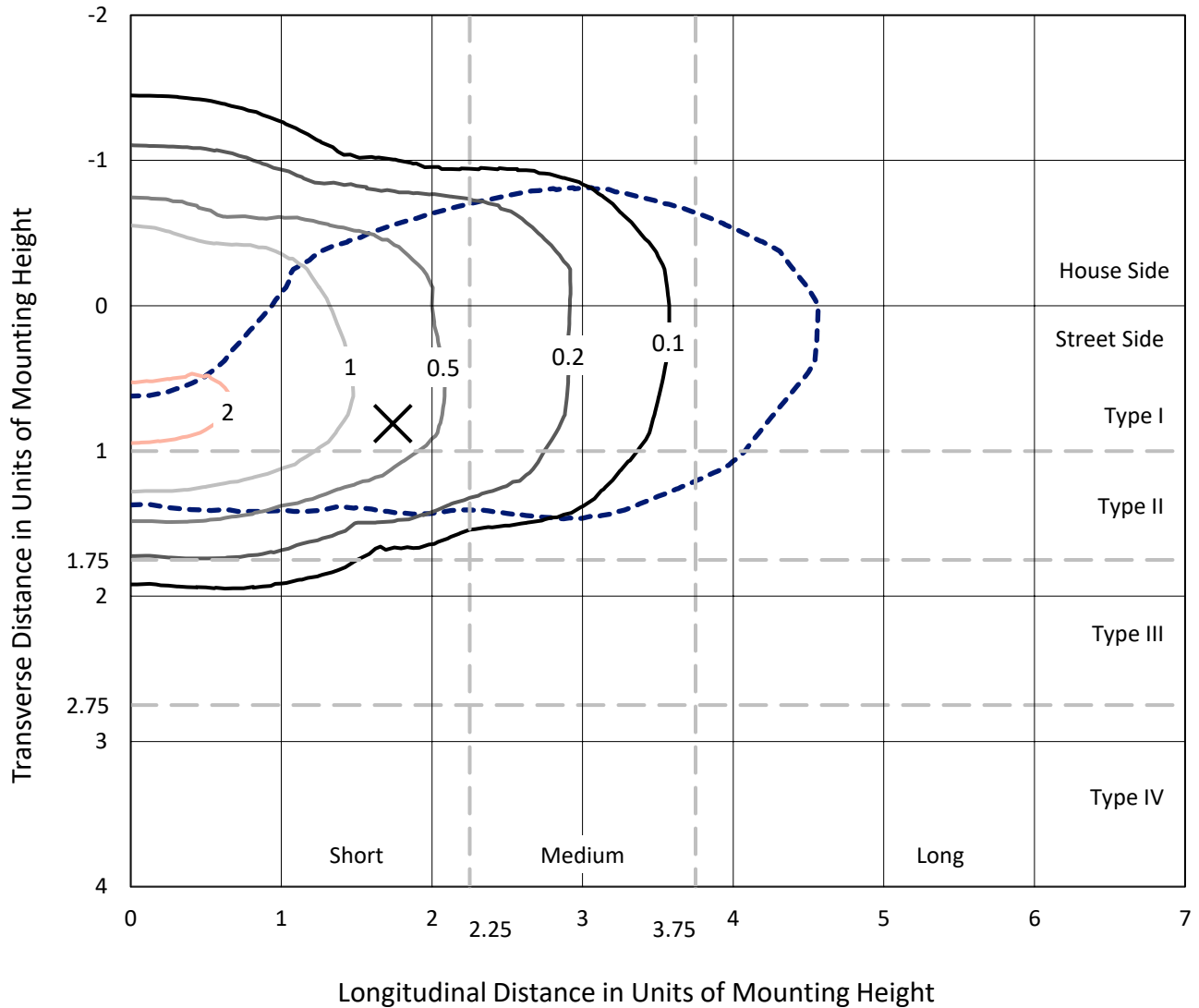
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

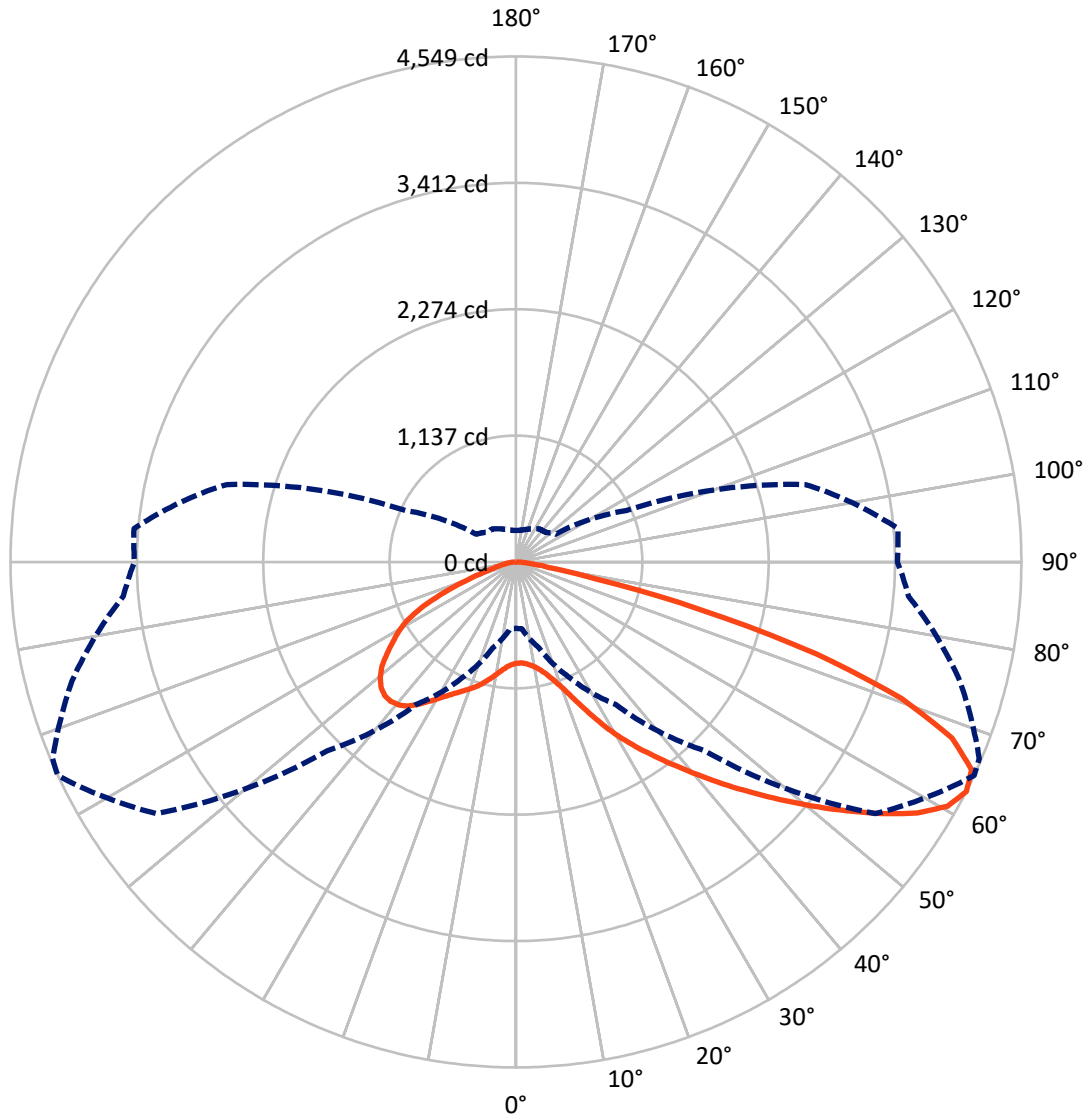
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2609.6	0.0	2609.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5660.4	0.0	5660.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	8270.0	0.0	8270.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.1
10°-20°	308.1	3.7
20°-30°	624.7	7.6
30°-40°	1081.1	13.1
40°-50°	1636.0	19.8
50°-60°	1918.1	23.2
60°-70°	1608.1	19.4
70°-80°	887.8	10.7
80°-90°	115.3	1.4
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°	8270.0	100.0
0°-180°	8270.0	100.0



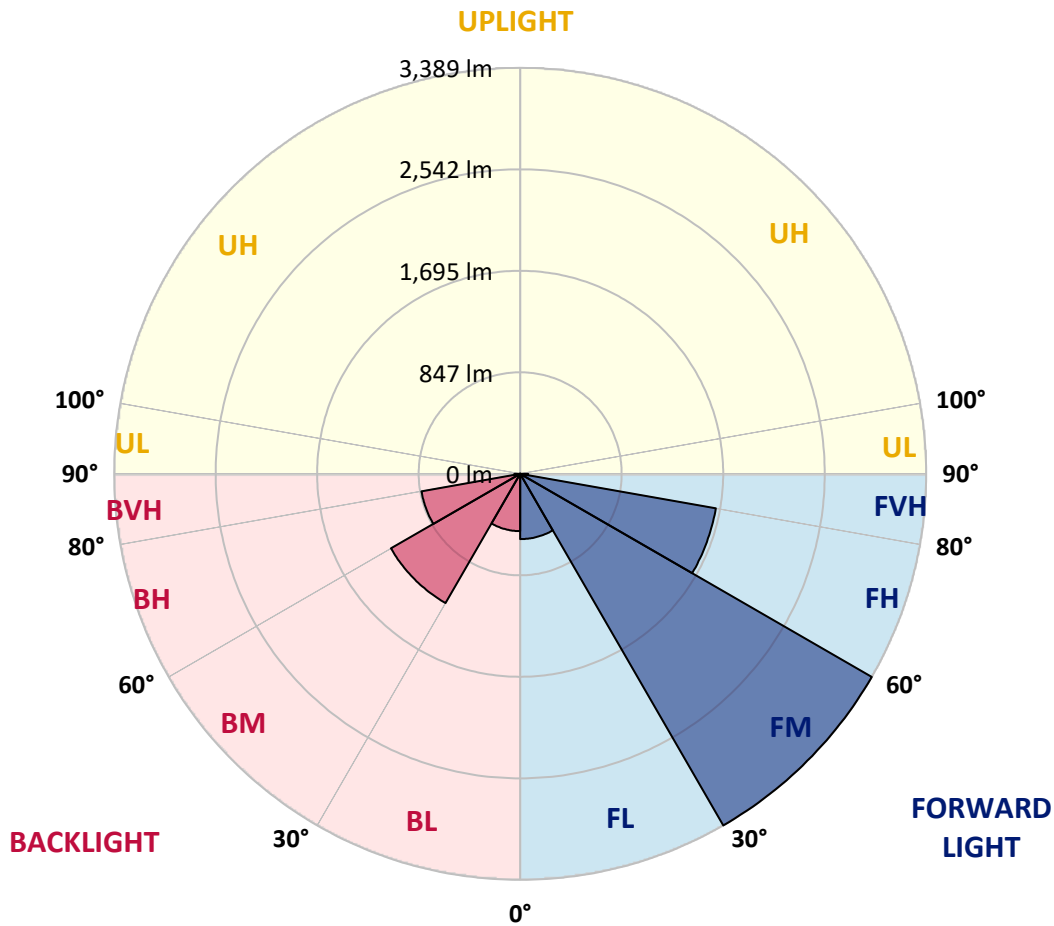
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	545.1	6.6			
FM (30°-60°)	3389.3	41.0			
FH (60°-80°)	1658.7	20.1			G1/1800
FVH (80°-90°)	67.2	0.8			G1/100
BL (0°-30°)	478.6	5.8	B1/500		
BM (30°-60°)	1245.8	15.1	B2/2500		
BH (60°-80°)	837.2	10.1	B2/1000		G2/1000
BVH (80°-90°)	48.1	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3
2.5°	905.3	902.7	904.9	904.9	905.7	905.3	908.3	909.2	910.5	913.0
5°	896.3	895.9	899.7	903.2	906.6	909.6	913.5	919.0	919.9	922.9
7.5°	893.3	890.7	896.7	901.0	909.2	916.5	926.8	936.2	940.1	941.4
10°	916.5	912.2	917.8	920.3	927.2	934.5	946.5	961.5	965.8	971.0
12.5°	955.9	951.2	959.4	963.2	969.7	976.1	984.3	998.8	1001.0	1010.4
15°	1010.0	1004.4	1009.6	1014.3	1025.0	1031.0	1039.2	1053.3	1053.3	1060.6
17.5°	1083.4	1076.1	1079.9	1081.7	1088.5	1097.5	1111.3	1123.7	1130.1	1127.6
20°	1192.8	1183.8	1183.8	1175.2	1172.6	1179.9	1197.9	1215.1	1222.0	1208.7
22.5°	1357.1	1344.2	1336.9	1307.8	1296.2	1297.0	1315.1	1336.1	1341.7	1318.1
25°	1566.1	1545.9	1536.0	1493.1	1466.9	1444.2	1458.4	1485.4	1493.1	1463.9
27.5°	1775.0	1776.3	1766.9	1715.4	1672.0	1630.4	1623.1	1651.4	1659.6	1626.6
30°	2068.1	2037.6	2019.6	1957.8	1896.0	1837.7	1807.6	1819.2	1821.3	1781.9
32.5°	2320.8	2313.0	2274.4	2220.4	2141.0	2049.6	1999.4	1981.0	1977.5	1921.3
35°	2608.7	2604.4	2563.6	2499.3	2413.4	2286.4	2195.9	2143.1	2138.9	2059.9
37.5°	2901.3	2901.3	2861.4	2791.0	2702.2	2543.5	2405.7	2322.1	2308.3	2205.4
40°	3134.7	3120.5	3127.8	3098.2	2996.5	2827.9	2638.7	2517.3	2498.8	2375.3
42.5°	3267.3	3262.6	3306.3	3339.4	3297.7	3163.0	2895.3	2728.8	2703.1	2562.3
45°	3296.9	3291.7	3369.8	3490.8	3549.2	3493.8	3174.2	2951.5	2920.2	2758.0
47.5°	3228.7	3218.4	3332.9	3523.8	3710.9	3808.3	3476.2	3193.0	3147.6	2948.5
50°	3023.6	3013.7	3187.0	3440.6	3765.4	4022.0	3804.0	3449.2	3379.7	3152.7
52.5°	2577.8	2582.5	2854.1	3202.5	3693.8	4155.0	4086.3	3719.1	3635.4	3361.7
55°	2008.0	2018.3	2352.1	2735.7	3407.1	4134.8	4279.0	3997.1	3913.9	3558.2
57.5°	1437.8	1483.3	1796.0	2175.8	2856.7	3815.2	4321.0	4261.4	4180.7	3772.7
60°	931.9	940.1	1261.9	1644.6	2175.3	3247.1	4235.7	4461.8	4398.7	3991.5
62.5°	597.2	602.8	798.9	1150.3	1565.6	2402.3	3948.2	4548.9	4529.6	4136.1
65°	438.9	434.6	536.8	760.3	1054.6	1481.5	3390.0	4506.8	4545.0	4226.6
67.5°	366.4	360.4	410.6	526.5	777.0	841.4	2508.3	4233.5	4373.4	4216.3
70°	333.8	328.7	359.1	390.9	606.3	563.4	1264.4	3680.5	3895.8	4099.2
72.5°	282.7	273.7	315.4	347.1	471.5	432.1	522.6	2827.1	3089.6	3723.8
75°	219.2	213.2	248.9	305.5	354.4	337.2	330.4	1716.7	2003.3	2879.8
77.5°	173.8	165.6	198.2	238.1	318.8	254.4	240.7	739.3	1023.3	1838.5
80°	130.9	123.6	150.6	188.4	245.0	191.8	155.7	301.6	385.7	931.5
82.5°	93.1	86.7	105.1	138.2	164.8	172.1	95.7	169.0	190.1	359.1
85°	59.6	55.8	70.4	86.7	104.7	110.7	58.4	88.4	97.0	148.0
87.5°	32.6	26.6	37.8	40.3	48.5	44.2	27.9	32.2	34.8	53.6
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°
911.3	0°	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3
913.0	2.5°	914.8	916.0	920.3	921.6	924.6	928.5	931.1	933.6	933.6	936.2
926.8	5°	927.2	930.2	939.2	943.9	951.6	959.4	964.1	969.7	973.1	974.8
948.6	7.5°	951.2	955.9	968.8	977.0	990.3	1001.0	1008.3	1016.0	1017.7	1022.4
979.1	10°	983.8	989.4	1004.0	1019.4	1035.3	1048.6	1055.5	1061.1	1063.2	1064.1
1018.2	12.5°	1021.2	1029.3	1048.2	1067.1	1083.8	1095.4	1097.1	1095.8	1089.8	1084.7
1066.2	15°	1067.1	1074.4	1095.4	1116.0	1132.3	1134.4	1123.7	1116.8	1109.5	1108.3
1119.8	17.5°	1122.0	1125.8	1145.2	1165.3	1166.6	1159.3	1143.4	1137.0	1130.1	1125.4
1189.8	20°	1185.9	1184.6	1198.4	1206.9	1197.9	1175.6	1151.6	1140.9	1134.0	1128.4
1275.6	22.5°	1262.3	1252.4	1250.7	1248.6	1224.5	1177.8	1145.2	1131.4	1120.7	1113.0
1395.3	25°	1373.4	1335.7	1309.5	1294.9	1240.8	1166.2	1124.6	1094.1	1073.9	1060.6
1541.6	27.5°	1512.4	1448.9	1382.9	1347.2	1240.8	1142.6	1074.8	1025.4	992.4	978.7
1683.2	30°	1645.0	1578.5	1481.1	1410.3	1237.8	1104.0	994.6	925.9	887.3	873.6
1804.2	32.5°	1758.3	1685.8	1585.4	1479.4	1230.5	1041.3	895.0	819.1	781.7	765.4
1923.9	35°	1863.4	1786.2	1690.1	1555.3	1211.2	949.5	785.6	727.7	686.1	659.9
2045.7	37.5°	1971.1	1879.3	1789.2	1624.0	1176.5	842.2	701.5	652.2	603.3	568.1
2175.3	40°	2088.2	1978.4	1895.1	1664.7	1119.4	740.1	636.3	591.2	539.3	502.0
2324.6	42.5°	2225.1	2097.2	2013.1	1685.8	1041.3	667.6	593.8	549.6	500.7	470.2
2484.7	45°	2368.0	2228.1	2120.8	1685.3	954.2	633.7	580.1	536.3	482.3	450.5
2649.0	47.5°	2517.7	2365.0	2213.9	1657.9	878.7	638.4	572.4	507.6	447.9	417.0
2815.0	50°	2667.9	2514.7	2304.0	1606.4	846.5	628.1	543.6	467.2	396.9	369.0
2970.8	52.5°	2816.8	2673.9	2381.7	1533.0	813.9	590.0	506.7	414.9	375.9	356.5
3131.7	55°	2966.5	2831.4	2466.2	1426.2	732.4	545.3	444.9	395.2	359.1	341.5
3289.2	57.5°	3116.7	3013.3	2546.5	1319.4	629.9	490.4	411.0	371.1	342.4	327.4
3420.9	60°	3272.9	3221.4	2629.3	1221.1	528.6	420.0	386.2	351.8	322.7	305.9
3547.4	62.5°	3433.7	3450.5	2694.1	1094.5	435.5	377.1	363.8	328.7	300.3	284.5
3652.1	65°	3595.9	3671.4	2736.5	919.0	353.1	336.4	339.8	303.3	274.6	260.9
3728.9	67.5°	3718.2	3830.6	2724.5	695.5	289.6	297.8	309.8	276.7	249.7	239.0
3716.5	70°	3731.9	3811.7	2606.1	476.3	242.4	260.0	276.3	250.6	222.7	215.0
3541.4	72.5°	3549.2	3554.3	2276.2	311.1	205.1	228.3	241.1	224.0	196.9	189.2
3098.2	75°	3069.9	2939.5	1671.2	205.1	171.6	196.1	208.1	196.1	169.9	171.6
2318.2	77.5°	2325.9	2081.8	1014.7	145.9	143.3	164.8	181.1	172.5	150.2	168.6
1165.7	80°	1198.4	1126.3	452.7	109.0	113.3	131.7	148.9	137.7	118.8	113.3
260.4	82.5°	274.6	319.2	178.5	78.1	81.9	94.8	113.7	103.4	85.4	72.1
108.6	85°	96.1	105.1	78.9	48.9	48.1	59.2	77.2	69.1	57.9	46.3
45.9	87.5°	30.5	39.9	29.6	19.7	20.6	26.6	35.6	32.6	27.0	17.6
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>
911.3
936.2
975.7
1020.7
1061.9
1084.7
1108.3
1125.8
1128.9
1115.5
1065.8
985.5
881.7
773.6
668.5
577.5
509.3
476.3
455.7
421.3
370.7
356.5
339.8
324.8
304.6
284.0
260.4
239.4
215.4
188.8
165.6
148.5
103.4
71.2
48.9
18.4
0.0

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