

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: P946337

Luminaire Tested: **GALN-SB2A-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946337
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-SB2A-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9091 lumens
Efficiency: N/A
Efficacy: 158.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

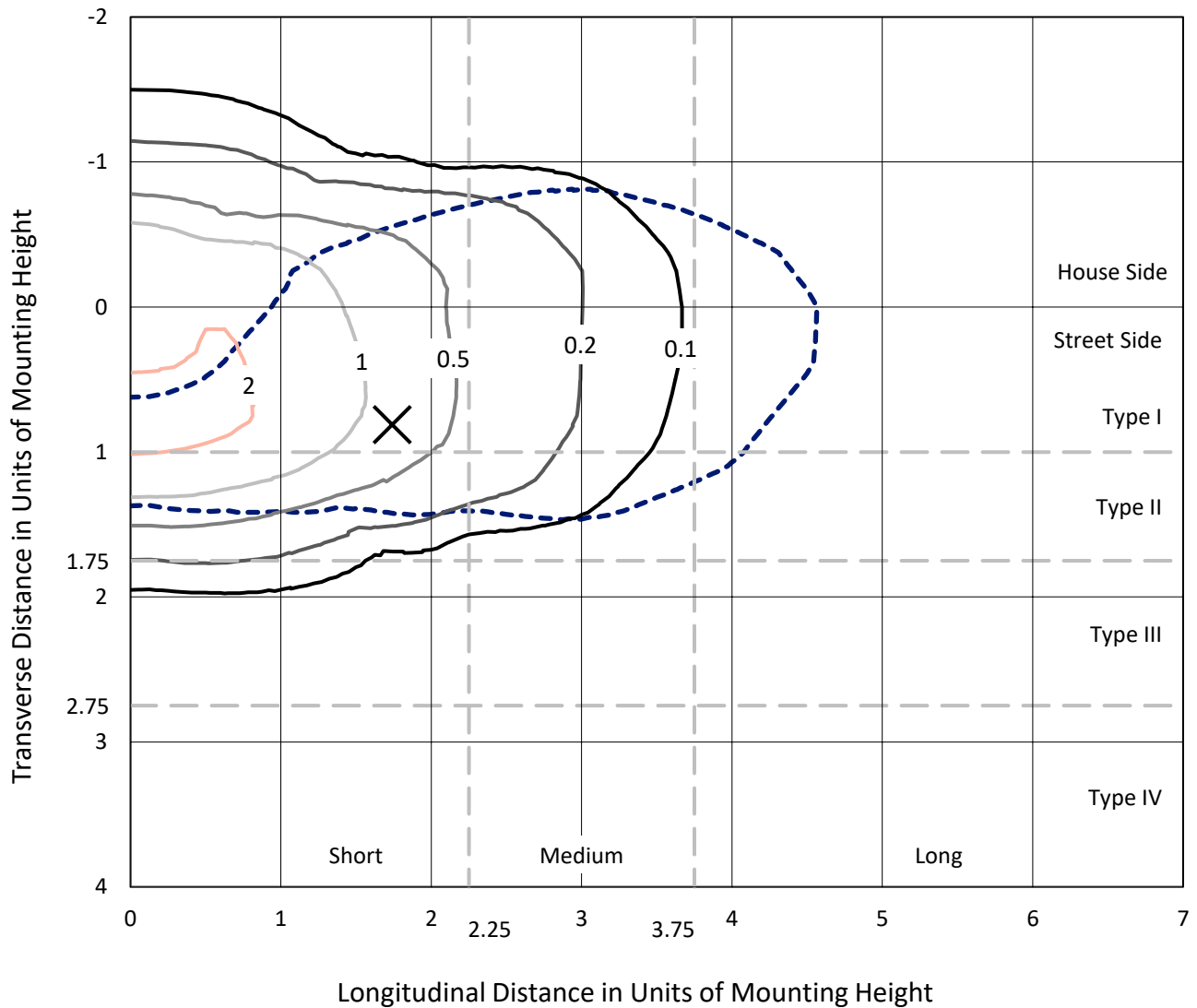
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

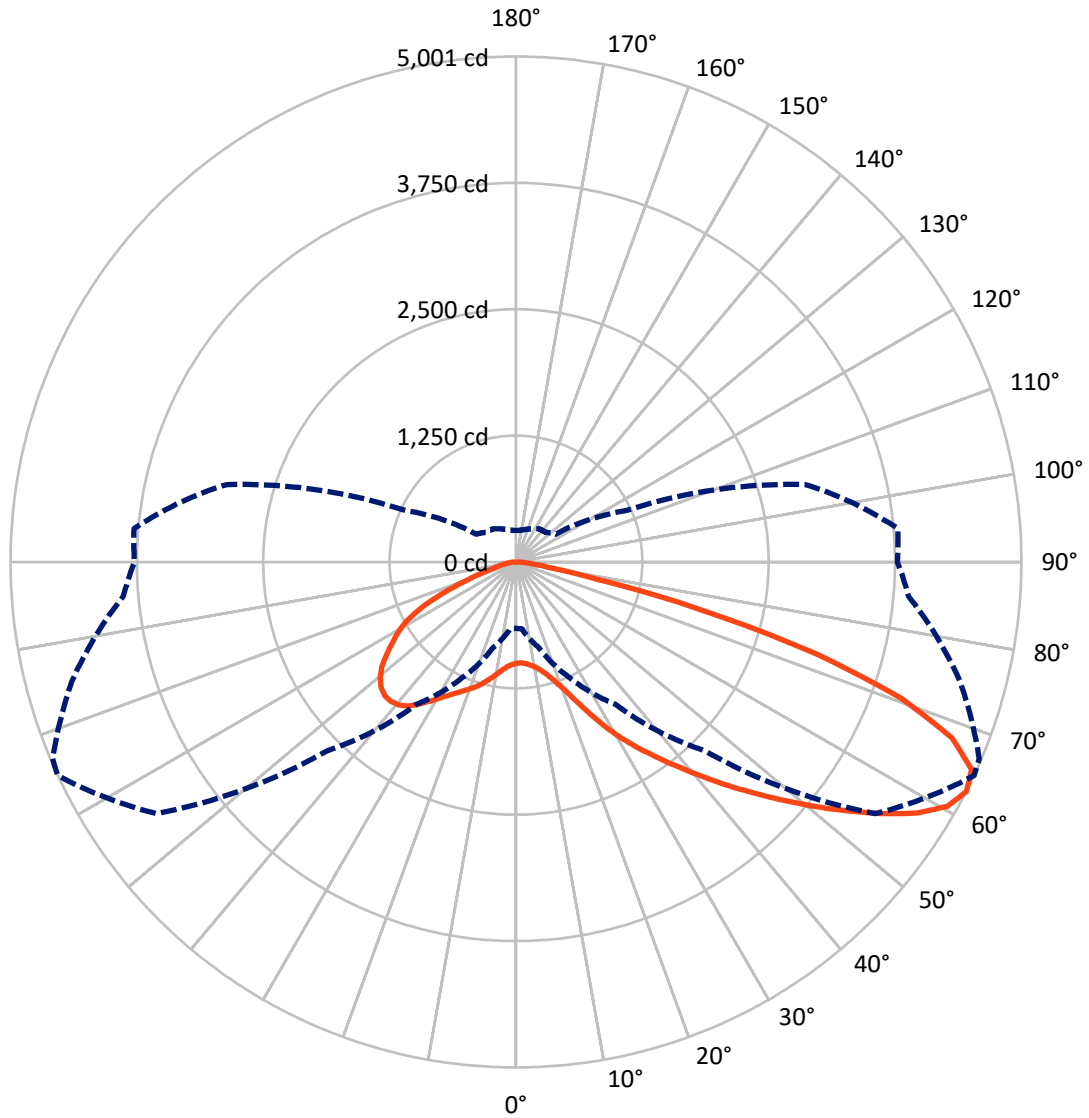
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	2868.7	0.0	2868.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6222.3	0.0	6222.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	9091.0	0.0	9091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.1
10°-20°	338.7	3.7
20°-30°	686.7	7.6
30°-40°	1188.4	13.1
40°-50°	1798.4	19.8
50°-60°	2108.5	23.2
60°-70°	1767.7	19.4
70°-80°	975.9	10.7
80°-90°	126.8	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°	9091.0	100.0
0°-180°	9091.0	100.0

Coefficient of Utilization



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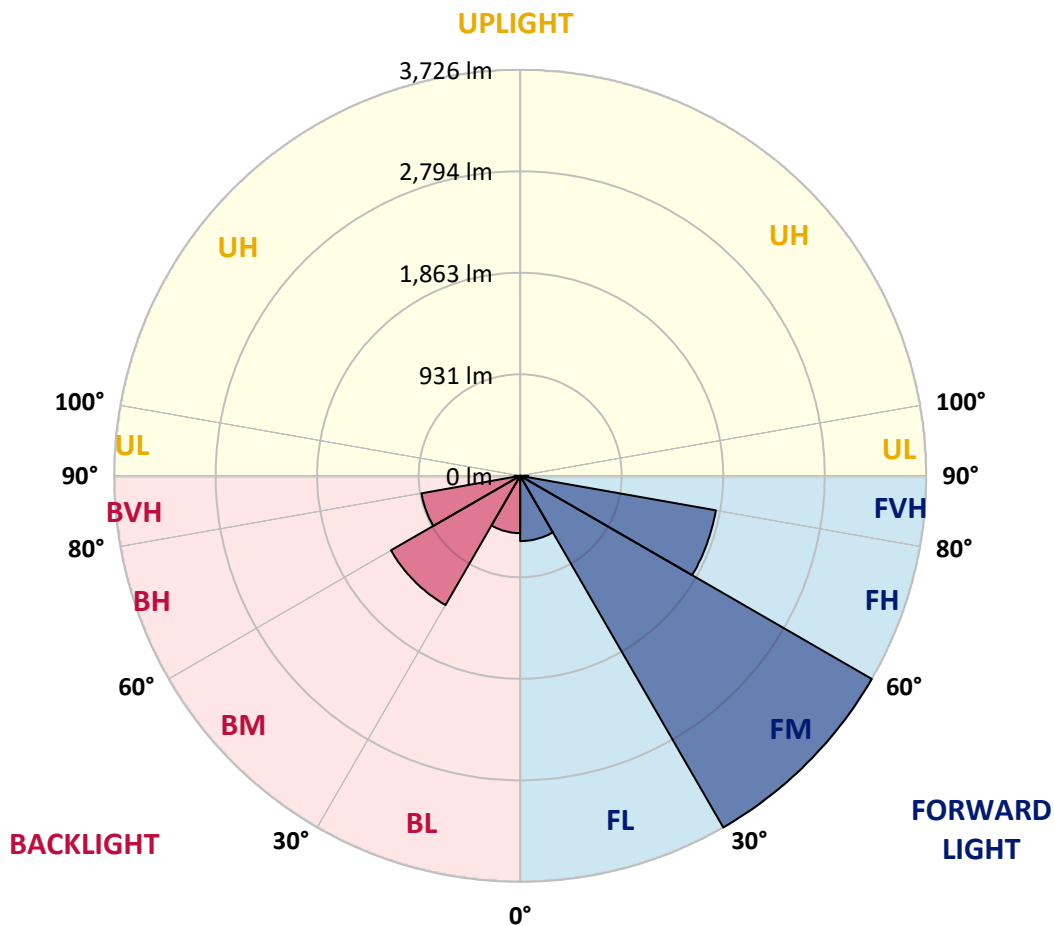
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.2	6.6			
FM (30°-60°)	3725.8	41.0			
FH (60°-80°)	1823.4	20.1			G2/5000
FVH (80°-90°)	73.9	0.8			G1/100
BL (0°-30°)	526.1	5.8	B2/1000		
BM (30°-60°)	1369.5	15.1	B2/2500		
BH (60°-80°)	920.3	10.1	B2/1000		G2/1000
BVH (80°-90°)	52.9	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°	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8
2.5°	995.2	992.4	994.7	994.7	995.7	995.2	998.5	999.4	1000.8	1003.7
5°	985.3	984.8	989.1	992.8	996.6	999.9	1004.1	1010.3	1011.2	1014.5
7.5°	982.0	979.1	985.8	990.5	999.4	1007.4	1018.8	1029.1	1033.4	1034.8
10°	1007.4	1002.7	1008.9	1011.7	1019.2	1027.3	1040.5	1057.0	1061.7	1067.3
12.5°	1050.8	1045.7	1054.6	1058.9	1065.9	1073.0	1082.0	1098.0	1100.4	1110.7
15°	1110.3	1104.1	1109.8	1115.0	1126.8	1133.4	1142.3	1157.9	1157.9	1165.9
17.5°	1190.9	1182.9	1187.1	1189.0	1196.6	1206.5	1221.6	1235.3	1242.3	1239.5
20°	1311.2	1301.3	1301.3	1291.9	1289.0	1297.0	1316.9	1335.7	1343.3	1328.6
22.5°	1491.8	1477.7	1469.7	1437.6	1424.9	1425.8	1445.6	1468.7	1474.9	1448.9
25°	1721.5	1699.4	1688.5	1641.3	1612.6	1587.6	1603.1	1632.9	1641.3	1609.3
27.5°	1951.2	1952.6	1942.3	1885.7	1838.0	1792.3	1784.3	1815.4	1824.3	1788.0
30°	2273.4	2239.9	2220.1	2152.1	2084.2	2020.1	1987.1	1999.8	2002.2	1958.8
32.5°	2551.2	2542.7	2500.2	2440.8	2353.5	2253.1	2197.9	2177.6	2173.8	2112.1
35°	2867.6	2862.9	2818.1	2747.4	2653.0	2513.4	2413.9	2355.9	2351.2	2264.4
37.5°	3189.3	3189.3	3145.4	3068.1	2970.5	2796.0	2644.6	2552.6	2537.5	2424.3
40°	3445.9	3430.3	3438.3	3405.8	3294.0	3108.7	2900.7	2767.2	2746.9	2611.1
42.5°	3591.6	3586.4	3634.6	3670.9	3625.1	3477.0	3182.7	2999.7	2971.4	2816.7
45°	3624.2	3618.5	3704.4	3837.4	3901.5	3840.7	3489.3	3244.5	3210.1	3031.8
47.5°	3549.2	3537.9	3663.8	3873.7	4079.3	4186.4	3821.3	3510.0	3460.0	3241.2
50°	3323.7	3312.9	3503.4	3782.2	4139.2	4421.3	4181.7	3791.6	3715.2	3465.7
52.5°	2833.7	2838.9	3137.4	3520.4	4060.5	4567.5	4492.0	4088.3	3996.3	3695.4
55°	2207.3	2218.7	2585.6	3007.3	3745.4	4545.3	4703.8	4393.9	4302.4	3911.4
57.5°	1580.5	1630.5	1974.3	2391.7	3140.3	4193.9	4750.0	4684.4	4595.8	4147.2
60°	1024.4	1033.4	1387.1	1807.8	2391.3	3569.5	4656.1	4904.7	4835.4	4387.8
62.5°	656.5	662.7	878.2	1264.5	1721.1	2640.8	4340.1	5000.5	4979.2	4546.7
65°	482.5	477.8	590.0	835.8	1159.3	1628.6	3726.5	4954.2	4996.2	4646.2
67.5°	402.8	396.2	451.4	578.7	854.2	924.9	2757.3	4653.8	4807.5	4634.9
70°	366.9	361.3	394.8	429.7	666.4	619.3	1390.0	4045.8	4282.6	4506.2
72.5°	310.8	300.9	346.7	381.6	518.3	475.0	574.5	3107.7	3396.4	4093.5
75°	241.0	234.4	273.6	335.8	389.6	370.7	363.2	1887.1	2202.1	3165.7
77.5°	191.0	182.1	217.9	261.8	350.4	279.7	264.6	812.7	1124.9	2021.0
80°	143.9	135.8	165.5	207.1	269.3	210.8	171.2	331.6	424.0	1024.0
82.5°	102.3	95.3	115.6	151.9	181.1	189.1	105.2	185.8	208.9	394.8
85°	65.6	61.3	77.4	95.3	115.1	121.7	64.1	97.2	106.6	162.7
87.5°	35.8	29.2	41.5	44.3	53.3	48.6	30.7	35.4	38.2	59.0
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°
1001.8	0°	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8
1003.7	2.5°	1005.6	1007.0	1011.7	1013.1	1016.4	1020.7	1023.5	1026.3	1026.3	1029.1
1018.8	5°	1019.2	1022.5	1032.4	1037.6	1046.1	1054.6	1059.8	1065.9	1069.7	1071.6
1042.8	7.5°	1045.7	1050.8	1065.0	1074.0	1088.6	1100.4	1108.4	1116.9	1118.8	1123.9
1076.3	10°	1081.5	1087.6	1103.7	1120.6	1138.1	1152.7	1160.3	1166.4	1168.8	1169.7
1119.2	12.5°	1122.5	1131.5	1152.2	1173.0	1191.4	1204.1	1206.0	1204.6	1198.0	1192.3
1172.1	15°	1173.0	1181.0	1204.1	1226.8	1244.7	1247.0	1235.3	1227.7	1219.7	1218.3
1231.0	17.5°	1233.4	1237.6	1258.8	1281.0	1282.4	1274.4	1257.0	1249.9	1242.3	1237.1
1307.9	20°	1303.6	1302.2	1317.3	1326.8	1316.9	1292.3	1265.9	1254.1	1246.6	1240.4
1402.2	22.5°	1387.6	1376.8	1374.9	1372.5	1346.1	1294.7	1258.8	1243.7	1232.0	1223.5
1533.8	25°	1509.8	1468.3	1439.5	1423.4	1364.0	1282.0	1236.2	1202.7	1180.5	1165.9
1694.6	27.5°	1662.6	1592.8	1520.1	1481.0	1364.0	1256.0	1181.5	1127.2	1090.9	1075.8
1850.3	30°	1808.3	1735.2	1628.1	1550.3	1360.7	1213.6	1093.3	1017.8	975.4	960.3
1983.3	32.5°	1932.8	1853.1	1742.8	1626.3	1352.7	1144.7	983.9	900.4	859.3	841.4
2114.9	35°	2048.4	1963.5	1857.8	1709.7	1331.5	1043.8	863.6	799.9	754.2	725.4
2248.8	37.5°	2166.8	2065.8	1966.8	1785.2	1293.3	925.9	771.2	716.9	663.1	624.5
2391.3	40°	2295.5	2174.8	2083.3	1830.0	1230.5	813.6	699.5	649.9	592.9	551.8
2555.4	42.5°	2446.0	2305.4	2213.0	1853.1	1144.7	733.9	652.8	604.2	550.4	516.9
2731.3	45°	2603.0	2449.3	2331.4	1852.6	1049.0	696.6	637.7	589.6	530.1	495.2
2912.0	47.5°	2767.7	2599.7	2433.7	1822.5	965.9	701.8	629.2	558.0	492.4	458.4
3094.5	50°	2932.7	2764.4	2532.8	1765.9	930.6	690.5	597.6	513.6	436.3	405.6
3265.7	52.5°	3096.4	2939.3	2618.1	1685.2	894.7	648.5	557.0	456.1	413.2	391.9
3442.6	55°	3261.0	3112.4	2711.1	1567.8	805.1	599.5	489.1	434.4	394.8	375.4
3615.7	57.5°	3426.1	3312.4	2799.3	1450.3	692.4	539.1	451.8	408.0	376.4	359.9
3760.5	60°	3597.8	3541.2	2890.3	1342.3	581.1	461.7	424.5	386.8	354.7	336.3
3899.6	62.5°	3774.6	3793.0	2961.5	1203.2	478.7	414.6	400.0	361.3	330.2	312.7
4014.7	65°	3952.9	4035.9	3008.2	1010.3	388.2	369.8	373.5	333.5	301.9	286.8
4099.1	67.5°	4087.3	4210.9	2995.0	764.5	318.4	327.3	340.5	304.2	274.5	262.7
4085.4	70°	4102.4	4190.2	2864.8	523.5	266.5	285.8	303.7	275.4	244.8	236.3
3893.0	72.5°	3901.5	3907.2	2502.1	341.9	225.4	250.9	265.1	246.2	216.5	208.0
3405.8	75°	3374.7	3231.3	1837.1	225.4	188.7	215.5	228.8	215.5	186.8	188.7
2548.3	77.5°	2556.8	2288.5	1115.5	160.4	157.5	181.1	199.0	189.6	165.1	185.4
1281.5	80°	1317.3	1238.1	497.6	119.8	124.5	144.8	163.7	151.4	130.6	124.5
286.3	82.5°	301.9	350.9	196.2	85.8	90.1	104.2	125.0	113.7	93.9	79.2
119.3	85°	105.7	115.6	86.8	53.8	52.8	65.1	84.9	75.9	63.7	50.9
50.5	87.5°	33.5	43.9	32.5	21.7	22.6	29.2	39.1	35.8	29.7	19.3
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>
1001.8
1029.1
1072.5
1122.1
1167.3
1192.3
1218.3
1237.6
1240.9
1226.3
1171.6
1083.4
969.2
850.4
734.8
634.8
559.9
523.5
500.9
463.2
407.5
391.9
373.5
357.0
334.9
312.2
286.3
263.2
236.8
207.5
182.1
163.2
113.7
78.3
53.8
20.3
0.0

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