

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: P939729

Luminaire Tested: **GALN-SB2B-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7743 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

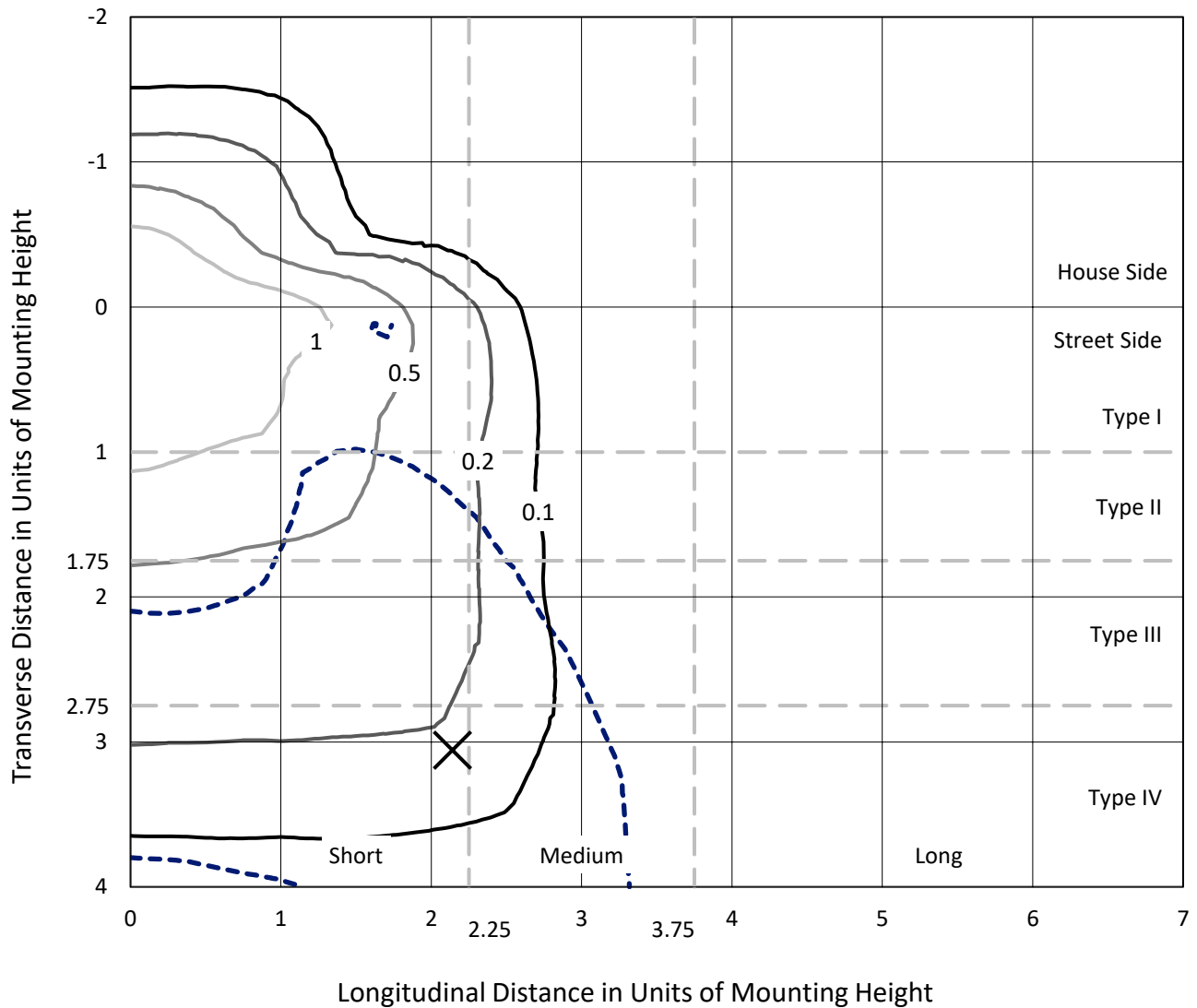
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

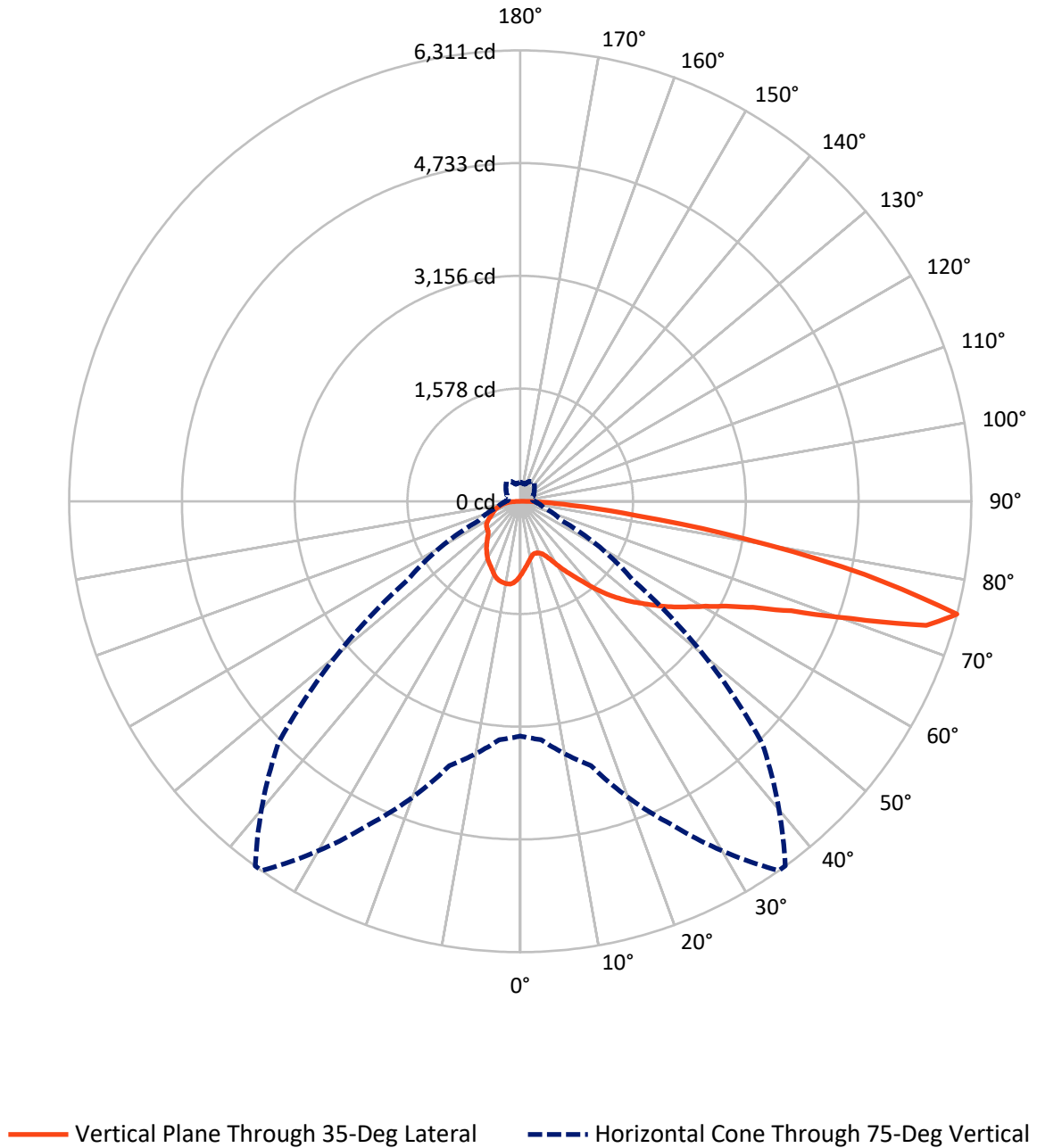
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1842.6	0.0	1842.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5900.4	0.0	5900.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	7743.0	0.0	7743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	1.3
10°-20°	281.8	3.6
20°-30°	473.2	6.1
30°-40°	735.4	9.5
40°-50°	1091.5	14.1
50°-60°	1506.9	19.5
60°-70°	1828.2	23.6
70°-80°	1510.9	19.5
80°-90°	217.3	2.8
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°	7743.0	100.0
0°-180°	7743.0	100.0

Coefficient of Utilization



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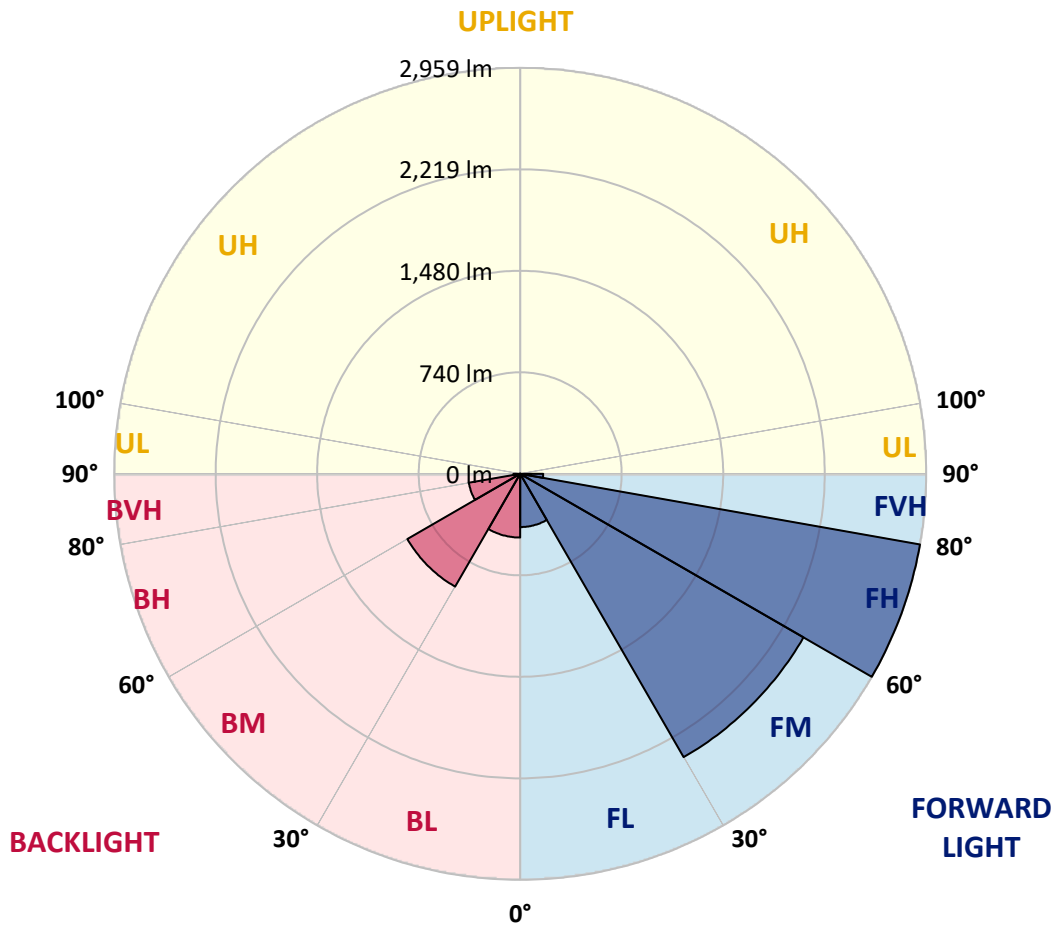
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	388.3	5.0			
FM (30°-60°)	2384.4	30.8			
FH (60°-80°)	2959.3	38.2			G2/5000
FVH (80°-90°)	168.4	2.2			G2/225
BL (0°-30°)	464.4	6.0	B1/500		
BM (30°-60°)	949.4	12.3	B1/1000		
BH (60°-80°)	379.9	4.9	B1/500		G1/500
BVH (80°-90°)	48.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8
2.5°	951.4	957.3	959.8	958.6	964.8	964.0	972.8	983.7	998.7	1013.4
5°	878.2	884.5	889.9	894.9	907.1	910.8	924.6	945.6	973.2	1001.3
7.5°	810.0	815.4	823.8	833.0	853.5	857.3	880.3	912.9	951.4	992.5
10°	754.3	759.7	768.5	779.0	804.5	809.1	838.4	882.0	932.2	984.1
12.5°	730.4	732.1	737.1	747.6	769.8	772.7	804.9	854.7	913.3	977.8
15°	729.2	732.5	732.9	738.4	756.8	758.1	787.8	837.2	901.6	976.6
17.5°	741.7	744.2	740.5	743.8	759.3	761.4	784.8	828.8	897.9	982.0
20°	775.2	777.3	766.0	761.4	772.7	774.4	797.4	834.2	901.6	993.3
22.5°	846.4	847.6	820.0	801.2	802.0	802.8	822.9	856.4	916.3	1013.8
25°	957.3	956.5	912.5	876.1	855.2	850.6	864.0	892.4	941.0	1041.0
27.5°	1087.1	1080.8	1036.8	982.4	936.8	930.1	927.2	939.3	976.1	1077.0
30°	1233.6	1227.7	1180.4	1109.2	1046.0	1035.2	1007.5	1001.3	1028.5	1126.0
32.5°	1394.3	1390.5	1334.0	1247.8	1163.2	1150.7	1104.2	1087.5	1108.8	1200.1
35°	1529.1	1525.7	1478.9	1390.1	1286.7	1271.2	1223.9	1205.1	1216.0	1295.1
37.5°	1650.9	1649.2	1609.0	1539.1	1432.4	1413.6	1360.4	1354.1	1352.0	1420.3
40°	1763.9	1759.7	1717.9	1681.0	1601.9	1584.8	1537.9	1532.4	1516.5	1574.3
42.5°	1889.1	1878.2	1817.5	1800.3	1779.0	1764.7	1736.7	1737.5	1702.4	1748.0
45°	1991.2	1984.9	1922.6	1912.5	1935.5	1929.7	1953.9	1960.2	1892.0	1930.1
47.5°	2100.9	2095.0	2042.3	2035.2	2097.5	2099.2	2185.0	2187.1	2077.0	2119.3
50°	2236.1	2227.7	2175.4	2184.2	2254.1	2260.3	2417.3	2403.1	2247.4	2311.4
52.5°	2325.2	2330.3	2318.9	2333.2	2428.6	2434.5	2645.9	2609.4	2416.1	2501.0
55°	2390.9	2401.0	2436.2	2468.8	2612.8	2618.7	2861.4	2805.8	2555.9	2676.8
57.5°	2475.5	2461.3	2527.0	2590.6	2787.8	2803.3	3071.1	2995.0	2679.8	2828.4
60°	2596.9	2586.8	2637.9	2732.1	2983.7	3008.4	3293.0	3165.3	2770.6	2948.5
62.5°	2843.0	2817.9	2825.9	2909.2	3230.6	3263.3	3543.3	3313.9	2815.8	2995.4
65°	3211.0	3167.8	3127.7	3185.4	3578.5	3610.7	3825.8	3430.7	2799.1	2904.5
67.5°	3674.3	3631.6	3582.2	3636.6	4090.8	4116.3	4174.5	3496.4	2667.2	2554.6
70°	4056.5	4040.6	4099.6	4323.5	4909.1	4910.0	4621.6	3442.0	2306.0	1811.2
72.5°	4005.8	3996.2	4307.2	4999.6	5940.5	5918.3	5044.8	3030.1	1553.4	817.1
75°	3286.3	3348.7	3830.5	4987.4	6311.0	6308.0	4785.7	1926.3	642.5	338.6
77.5°	1762.2	1861.0	2486.8	3682.3	4926.7	5000.8	3364.6	673.9	275.8	216.8
80°	574.7	660.9	991.2	1874.8	3201.3	3187.5	1442.0	264.5	188.8	153.6
82.5°	244.0	254.1	442.9	885.3	1642.9	1617.4	459.2	151.9	132.7	105.1
85°	95.4	106.7	195.5	409.4	711.6	696.1	165.8	75.3	85.0	68.6
87.5°	31.4	38.1	69.9	140.2	221.4	213.5	40.6	26.0	36.8	31.4
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°
1031.8	0°	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8
1034.7	2.5°	1040.6	1047.3	1055.2	1067.0	1077.0	1085.4	1094.2	1099.6	1101.7	1108.0
1036.4	5°	1048.1	1062.8	1082.5	1101.7	1120.5	1131.8	1141.9	1146.9	1151.5	1154.9
1041.0	7.5°	1060.7	1079.5	1110.5	1135.6	1151.5	1160.7	1167.4	1165.8	1167.4	1168.3
1046.0	10°	1071.6	1097.9	1134.8	1158.6	1170.8	1171.2	1169.5	1163.7	1160.7	1161.1
1053.6	12.5°	1084.5	1113.8	1153.6	1173.7	1177.1	1167.8	1160.7	1150.7	1146.9	1145.2
1064.9	15°	1102.1	1135.6	1174.1	1181.7	1173.3	1161.6	1149.4	1133.1	1124.7	1118.0
1084.1	17.5°	1123.5	1160.3	1190.0	1184.6	1166.6	1147.3	1127.7	1103.0	1085.8	1078.7
1110.5	20°	1153.2	1186.3	1202.2	1178.3	1151.1	1121.8	1088.3	1058.2	1042.3	1035.2
1144.0	22.5°	1189.2	1221.0	1213.9	1167.4	1128.9	1082.0	1040.2	1018.0	1010.0	1005.0
1187.1	25°	1232.3	1259.5	1222.3	1151.5	1092.5	1029.3	997.1	989.9	986.2	982.4
1239.8	27.5°	1288.4	1303.0	1228.5	1128.1	1035.6	973.2	961.5	962.7	961.5	955.2
1313.1	30°	1362.5	1359.6	1234.4	1090.0	970.3	922.6	923.4	928.8	929.7	925.5
1415.2	32.5°	1460.0	1430.3	1237.3	1040.6	907.9	878.2	879.0	884.9	889.1	882.0
1548.8	35°	1578.1	1512.8	1232.7	978.6	859.8	835.9	829.6	831.3	832.6	825.9
1710.7	37.5°	1715.8	1605.3	1212.2	910.0	820.0	794.5	781.1	769.8	763.1	756.8
1894.1	40°	1866.9	1706.1	1174.5	843.0	775.6	750.5	730.4	709.1	686.5	678.1
2088.3	42.5°	2025.1	1810.0	1128.9	779.0	724.6	704.1	682.7	651.7	617.8	600.7
2290.1	45°	2189.2	1916.3	1084.1	715.8	672.2	663.5	638.8	601.5	564.7	542.9
2492.2	47.5°	2349.9	2016.7	1018.4	652.2	623.3	632.9	613.6	579.3	538.3	504.0
2692.7	50°	2503.5	2110.9	910.8	587.7	583.5	623.7	605.3	555.9	509.0	465.0
2889.5	52.5°	2655.9	2187.1	773.1	529.1	562.2	621.2	594.4	540.0	482.6	436.6
3074.5	55°	2785.3	2226.4	640.4	478.9	531.2	599.8	581.4	521.1	445.4	396.4
3201.3	57.5°	2858.9	2194.6	529.9	429.5	488.5	564.7	559.2	481.0	401.0	363.3
3226.0	60°	2827.1	2065.7	439.5	386.4	447.9	526.6	520.7	441.2	367.1	331.5
3093.7	62.5°	2651.7	1820.0	367.9	348.7	411.0	487.6	482.2	410.6	341.1	306.8
2742.6	65°	2298.4	1480.5	312.3	317.3	373.8	440.8	448.7	385.1	320.6	287.1
2121.8	67.5°	1753.0	1072.4	268.7	290.1	337.4	394.7	417.7	366.7	303.5	271.7
1227.7	70°	999.2	609.0	231.9	263.7	305.1	352.0	393.9	352.0	285.1	258.7
460.0	72.5°	378.8	279.6	200.5	237.3	274.2	316.0	367.5	329.0	263.7	244.0
237.8	75°	202.2	170.4	168.7	206.4	238.6	280.9	334.4	306.4	247.8	257.8
164.5	77.5°	137.7	120.6	141.1	176.6	199.7	241.9	299.3	272.1	214.7	213.9
113.9	80°	95.4	85.4	114.7	142.3	154.5	203.4	261.2	233.6	175.0	163.2
70.3	82.5°	57.3	55.7	85.8	106.3	109.3	157.0	216.4	195.9	143.2	124.7
41.9	85°	31.4	33.1	54.8	62.4	63.6	109.7	169.5	151.5	110.1	92.5
15.1	87.5°	8.8	11.3	20.1	24.7	30.6	56.9	100.9	90.0	55.3	38.5
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>
1031.8
1107.6
1155.7
1169.5
1162.0
1144.4
1120.1
1079.1
1034.3
1005.9
982.4
956.5
927.6
885.3
830.5
761.0
681.9
602.8
541.2
500.2
461.3
431.6
392.2
358.3
326.5
301.4
281.7
266.6
255.3
240.7
266.2
197.2
156.1
125.6
93.3
38.5
0.0

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