

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: P939675

Luminaire Tested: **GALN-SB2B-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10673 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

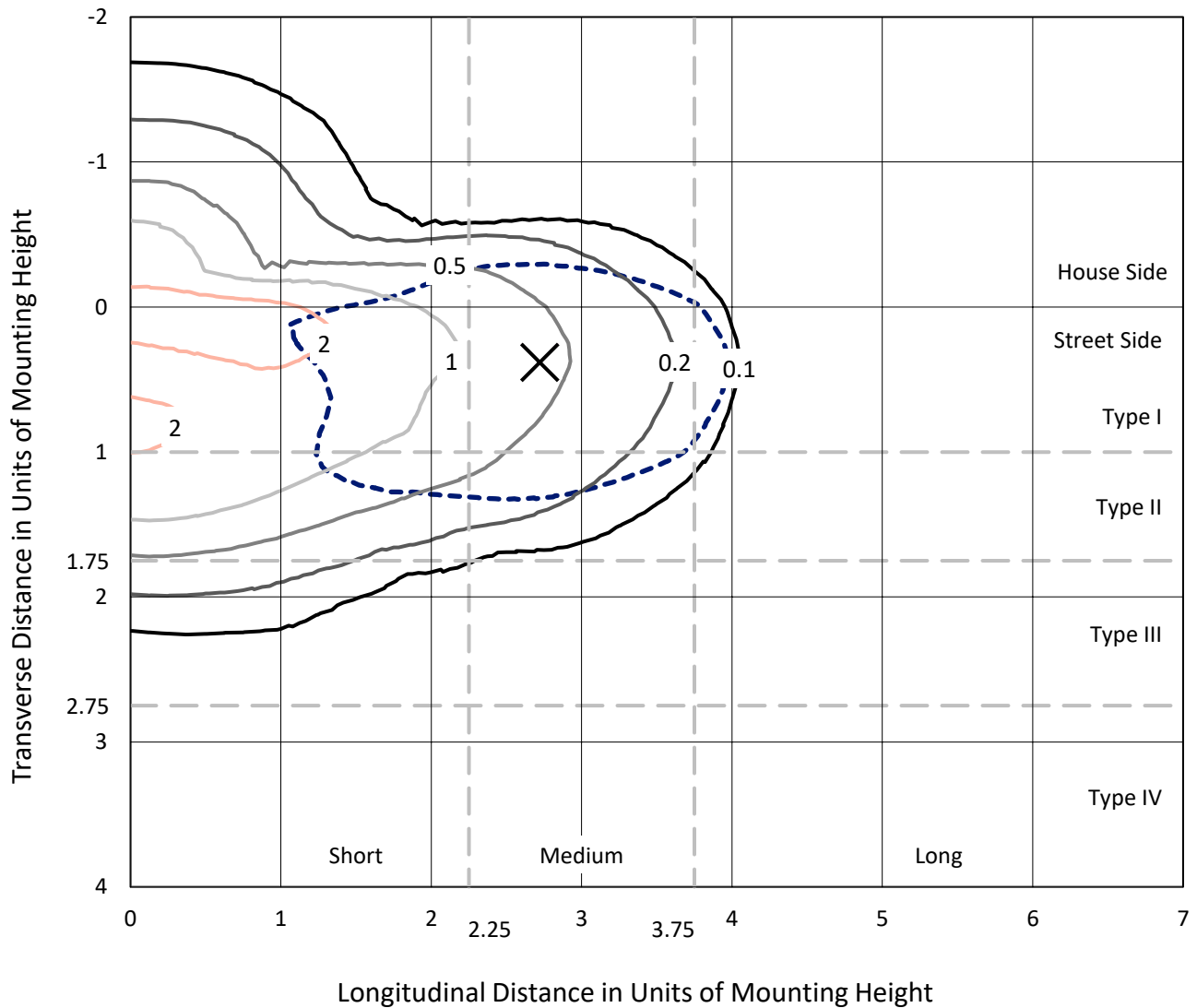
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

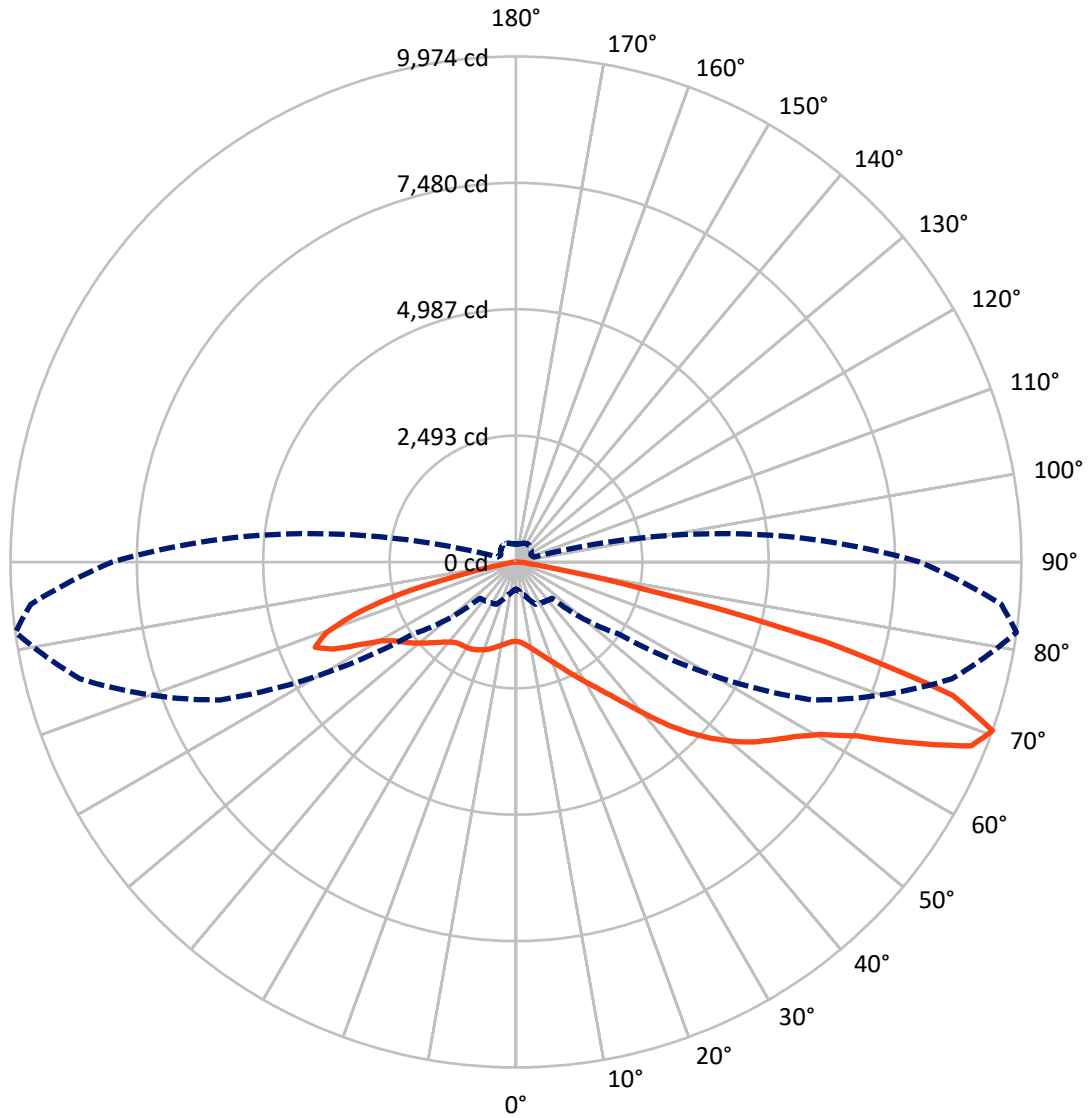
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2631.2	0.0	2631.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	8041.8	0.0	8041.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	10673.0	0.0	10673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	1.4
10°-20°	424.5	4.0
20°-30°	710.1	6.7
30°-40°	1109.4	10.4
40°-50°	1766.8	16.6
50°-60°	2458.7	23.0
60°-70°	2571.9	24.1
70°-80°	1344.2	12.6
80°-90°	139.6	1.3
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°	10673.0	100.0
0°-180°	10673.0	100.0

Coefficient of Utilization



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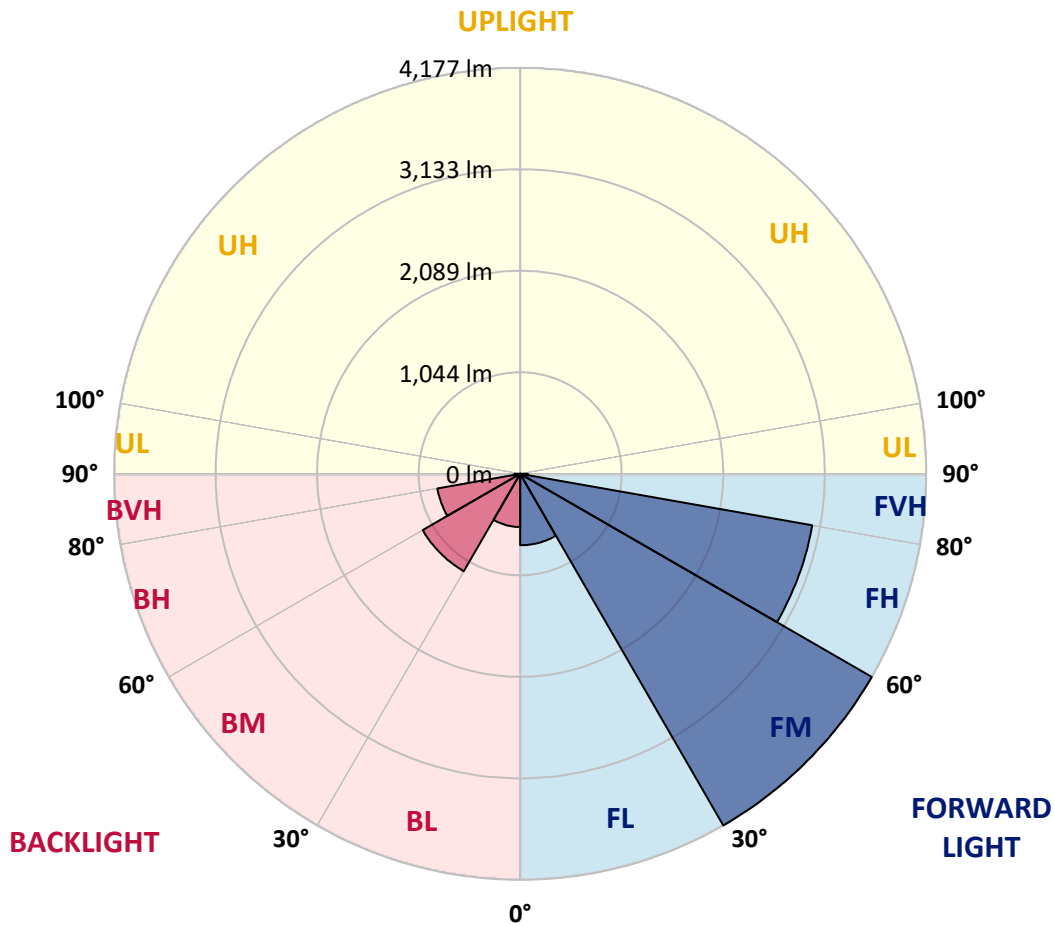
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.0	6.9			
FM (30°-60°)	4177.3	39.1			
FH (60°-80°)	3051.4	28.6			G2/5000
FVH (80°-90°)	78.1	0.7			G1/100
BL (0°-30°)	547.4	5.1	B2/1000		
BM (30°-60°)	1157.6	10.8	B2/2500		
BH (60°-80°)	864.7	8.1	B2/1000		G2/1000
BVH (80°-90°)	61.4	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1564.8	1564.8	1564.8	1564.8	1564.8	1564.8	1564.8	1564.8	1564.8	1564.8
2.5°	1602.2	1611.2	1608.4	1605.6	1605.6	1601.6	1601.0	1595.4	1590.8	1583.5
5°	1622.6	1632.2	1631.1	1633.3	1640.7	1642.4	1644.1	1640.7	1631.6	1622.6
7.5°	1604.4	1615.2	1618.6	1632.2	1654.8	1675.2	1690.5	1696.8	1688.3	1675.2
10°	1543.3	1555.2	1567.1	1599.3	1639.6	1687.7	1728.5	1752.8	1751.1	1738.7
12.5°	1419.2	1431.7	1457.2	1520.1	1593.7	1678.6	1754.5	1805.5	1823.0	1814.0
15°	1320.1	1330.9	1350.2	1414.7	1510.4	1639.6	1764.1	1863.3	1908.0	1902.9
17.5°	1317.3	1321.8	1333.7	1364.3	1437.9	1578.4	1754.0	1919.9	2005.4	2004.8
20°	1367.1	1368.8	1375.6	1381.9	1423.8	1531.9	1727.9	1966.9	2114.7	2114.7
22.5°	1436.2	1435.1	1441.9	1436.2	1456.6	1528.0	1711.5	2008.2	2236.5	2245.5
25°	1539.9	1534.2	1532.5	1519.5	1523.5	1564.8	1729.6	2055.2	2380.9	2399.6
27.5°	1678.1	1669.0	1662.8	1632.8	1622.6	1640.7	1785.1	2111.9	2541.7	2574.0
30°	1858.2	1841.7	1832.7	1780.6	1743.8	1746.6	1868.9	2187.2	2709.9	2762.0
32.5°	2104.0	2078.5	2054.1	1968.6	1901.2	1879.1	1977.1	2291.4	2892.3	2975.5
35°	2379.2	2358.8	2332.8	2200.8	2097.2	2046.2	2123.2	2437.0	3105.8	3237.8
37.5°	2644.2	2626.7	2639.1	2461.3	2327.7	2253.5	2314.6	2632.3	3369.2	3564.0
40°	2918.3	2904.8	2906.5	2736.6	2580.8	2497.6	2546.8	2877.6	3671.0	3951.9
42.5°	3216.2	3206.0	3172.1	3021.4	2846.4	2768.8	2814.1	3160.7	3995.0	4393.7
45°	3549.8	3543.6	3511.9	3339.1	3138.7	3051.4	3112.6	3473.4	4320.6	4809.4
47.5°	3838.1	3843.2	3839.2	3693.7	3485.8	3357.8	3430.9	3799.6	4623.6	5200.1
50°	3976.8	4003.5	4042.5	3997.2	3868.1	3737.8	3752.0	4114.5	4912.4	5566.5
52.5°	3904.3	3954.7	4061.2	4133.7	4183.5	4156.4	4118.4	4427.1	5184.3	5897.3
55°	3634.2	3705.0	3881.7	4056.7	4311.0	4508.6	4558.5	4773.7	5449.3	6188.4
57.5°	3142.0	3257.0	3415.6	3769.6	4197.7	4679.1	5071.6	5254.5	5730.2	6499.3
60°	2298.2	2452.2	2649.3	3176.0	3801.3	4587.9	5508.2	5993.0	6129.5	6902.0
62.5°	1470.8	1565.9	1747.2	2243.3	2962.0	4120.7	5641.9	6916.1	6806.3	7562.3
65°	1007.0	1068.1	1234.1	1512.7	1914.8	3067.3	5283.9	7608.2	7881.2	8608.9
67.5°	731.7	778.2	919.7	1163.8	1247.6	1815.1	4100.3	7576.5	8926.1	9687.2
70°	533.5	566.3	685.3	919.7	959.9	1009.8	2484.0	6440.4	8903.4	9973.8
72.5°	395.3	418.0	497.8	713.6	777.0	681.9	1229.5	4680.8	7650.7	9021.2
75°	286.0	303.0	361.9	546.0	621.8	519.3	613.3	2735.4	5336.6	6345.8
77.5°	218.6	231.6	270.1	399.8	497.8	389.6	380.6	1258.4	2530.4	2542.9
80°	175.6	184.1	205.0	281.5	381.7	291.7	248.1	508.0	799.7	676.8
82.5°	129.1	143.3	173.3	197.7	273.0	201.1	151.2	256.6	304.1	261.6
85°	73.6	83.3	104.8	141.6	174.4	122.9	86.6	113.8	141.6	116.1
87.5°	26.1	34.0	36.8	55.5	75.9	51.0	33.4	32.8	46.4	34.5
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°
1564.8	0°	1564.8	1564.8	1564.8	1564.8	1564.8	1564.8	1564.8	1564.8	1564.8	1564.8
1581.8	2.5°	1576.1	1573.3	1562.0	1546.7	1530.8	1515.5	1510.4	1499.7	1492.3	1488.3
1618.6	5°	1607.8	1598.8	1572.2	1538.2	1502.5	1464.0	1436.8	1411.9	1393.8	1376.8
1669.0	7.5°	1653.1	1637.3	1591.4	1531.9	1468.5	1404.5	1356.9	1320.7	1296.4	1280.5
1727.9	10°	1705.8	1681.5	1611.2	1522.3	1424.3	1332.6	1276.5	1245.4	1230.1	1221.6
1795.3	12.5°	1766.4	1731.9	1631.6	1500.2	1356.9	1252.2	1213.7	1204.6	1205.2	1205.7
1880.2	15°	1841.2	1793.0	1648.0	1452.1	1269.2	1190.4	1183.6	1198.4	1213.7	1221.0
1976.5	17.5°	1925.6	1857.6	1650.9	1372.8	1183.1	1150.8	1172.3	1204.0	1227.3	1237.5
2084.1	20°	2016.2	1923.3	1630.5	1260.7	1112.3	1118.5	1157.0	1197.8	1223.3	1236.3
2207.0	22.5°	2119.8	1993.5	1581.8	1142.9	1054.5	1083.4	1128.7	1168.4	1195.0	1208.0
2351.4	25°	2238.2	2072.2	1505.3	1043.8	1004.7	1043.8	1089.1	1121.9	1143.4	1155.3
2512.8	27.5°	2369.6	2154.4	1403.4	965.0	961.1	1003.0	1040.4	1065.9	1077.2	1086.2
2684.4	30°	2501.5	2229.1	1279.9	905.6	923.1	962.8	989.4	1000.7	1004.1	1005.8
2875.9	32.5°	2644.2	2293.7	1150.2	856.3	886.9	923.7	939.6	944.7	928.8	918.0
3108.1	35°	2817.0	2362.8	1023.4	817.2	851.2	882.9	888.0	883.5	864.8	842.7
3399.2	37.5°	3030.5	2448.9	922.0	789.5	817.8	838.7	832.5	831.4	833.1	807.0
3749.2	40°	3292.1	2561.0	847.8	768.0	790.6	795.1	777.6	787.2	795.7	756.1
4133.1	42.5°	3582.7	2696.3	800.8	753.2	768.0	757.2	730.0	740.8	739.6	687.5
4518.8	45°	3878.9	2843.6	784.4	742.5	747.0	725.5	695.5	698.3	674.5	627.5
4888.6	47.5°	4173.4	3001.6	794.6	733.4	720.9	696.6	673.4	660.9	625.8	590.7
5243.2	50°	4462.2	3167.5	832.0	715.3	685.3	671.1	654.1	632.0	594.7	564.6
5578.4	52.5°	4730.1	3334.6	873.9	685.3	640.5	649.0	638.3	612.8	576.0	545.4
5895.6	55°	4983.8	3501.7	890.3	643.9	598.6	629.8	623.5	576.5	532.4	507.4
6227.5	57.5°	5260.2	3702.7	872.2	591.3	564.6	607.7	583.9	531.8	506.3	487.6
6659.6	60°	5643.0	4018.2	833.1	526.1	532.4	574.8	534.1	512.5	484.8	463.8
7307.5	62.5°	6279.0	4606.6	770.2	461.6	494.4	526.1	510.3	488.8	460.4	440.0
8415.2	65°	7219.1	5424.4	651.9	411.2	451.9	478.6	484.8	463.3	433.8	412.3
9385.9	67.5°	8012.0	5937.5	493.3	369.3	408.3	440.0	457.6	436.6	405.5	384.5
9613.0	70°	7968.4	5564.8	376.6	327.9	369.8	402.1	424.8	408.3	374.9	355.1
8731.8	72.5°	7077.5	4655.3	304.7	286.0	330.7	362.5	389.6	377.2	343.2	323.9
6396.8	75°	5199.6	3304.6	243.5	243.5	282.0	321.1	351.1	343.2	312.1	298.5
2685.6	77.5°	2191.7	1386.4	190.9	202.2	234.5	275.8	313.2	316.0	288.8	305.8
710.2	80°	582.8	382.3	145.5	159.1	184.1	227.7	272.4	271.3	241.8	226.0
263.9	82.5°	222.0	150.6	103.6	112.1	133.1	174.4	215.8	222.6	193.1	167.1
103.6	85°	85.5	64.6	64.0	67.4	77.6	115.5	163.1	168.8	145.5	123.5
28.9	87.5°	22.1	19.3	23.8	22.7	35.7	61.7	93.4	96.8	88.9	51.5
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>
1564.8
1492.9
1383.6
1283.9
1223.9
1206.9
1220.5
1239.7
1239.7
1211.4
1158.7
1089.6
1009.8
921.4
843.8
808.7
757.2
687.0
629.2
590.7
562.4
546.0
505.2
485.9
462.7
440.0
413.4
385.1
356.8
323.9
294.5
277.5
210.1
167.1
127.4
73.6
0.0

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