

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: P946129

Luminaire Tested: **GALN-SB1D-840-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946129  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-840-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

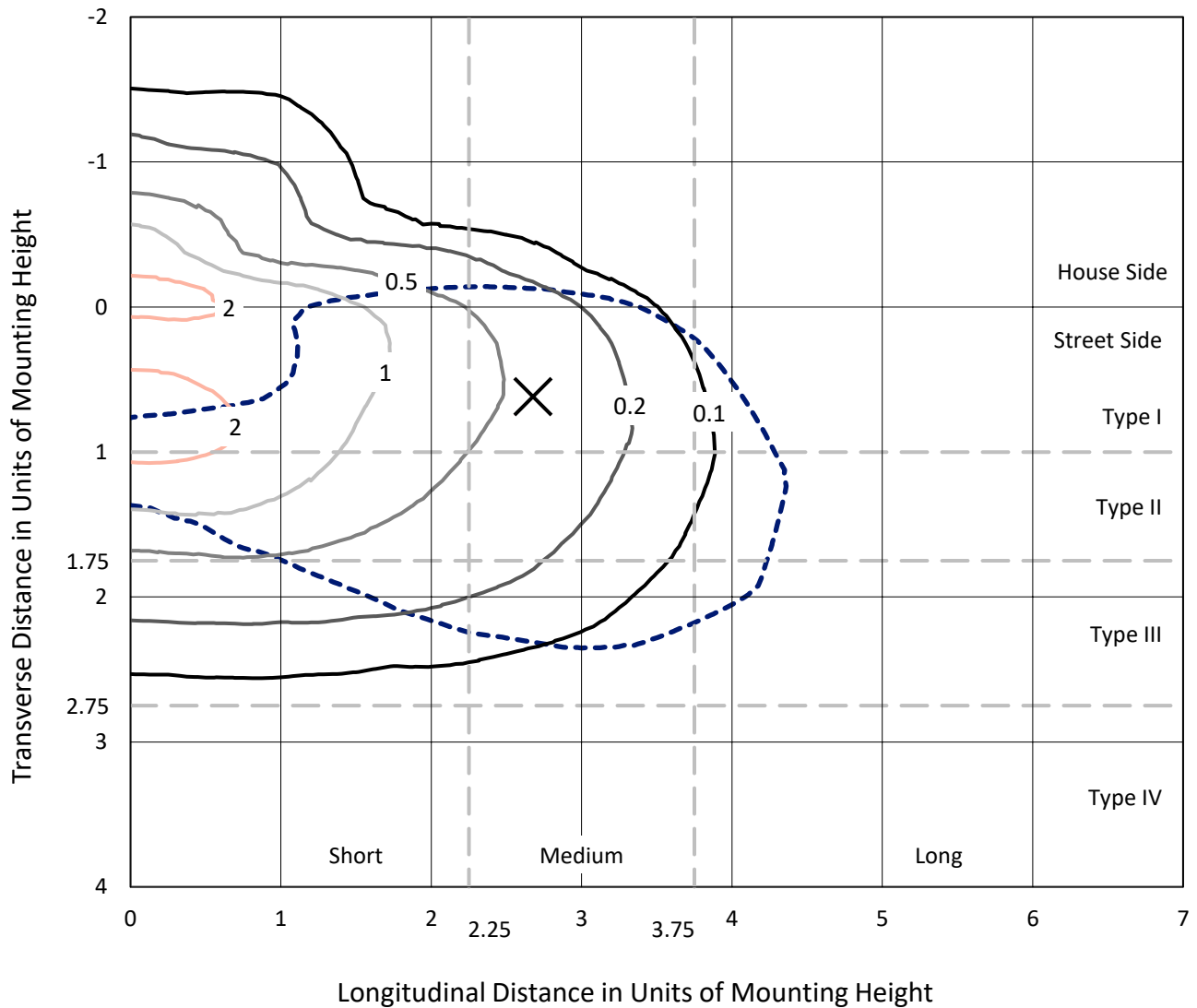
Lumens per Lamp: N/A  
Luminaire Lumens: 9996 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): 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

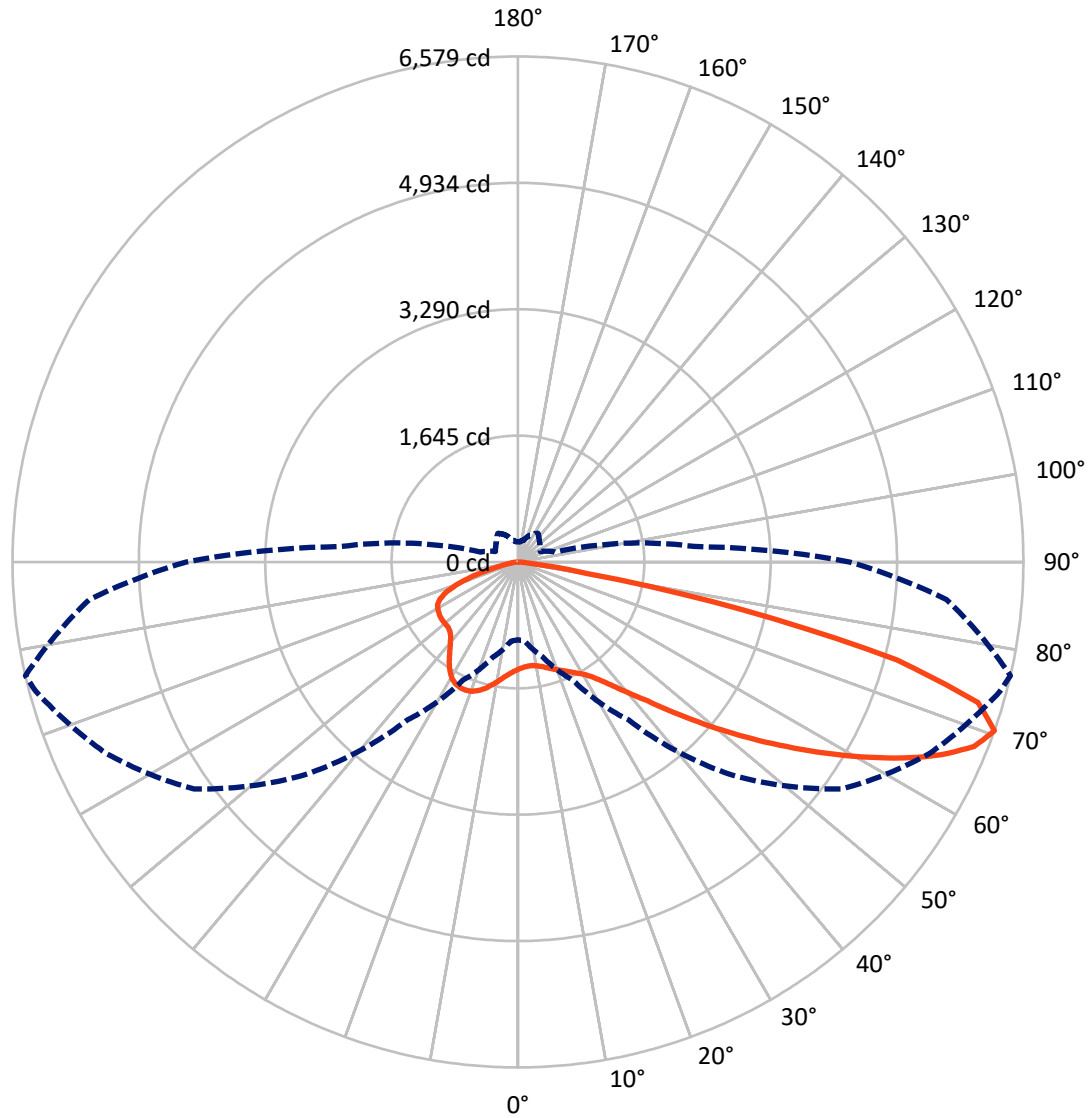
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2189.0	0.0	2189.0
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	7807.0	0.0	7807.0
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	9996.0	0.0	9996.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.0	1.3
10°-20°	383.9	3.8
20°-30°	656.4	6.6
30°-40°	1055.6	10.6
40°-50°	1648.1	16.5
50°-60°	2201.5	22.0
60°-70°	2346.4	23.5
70°-80°	1444.5	14.5
80°-90°	126.6	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°	9996.0	100.0
0°-180°	9996.0	100.0

**Coefficient of Utilization**



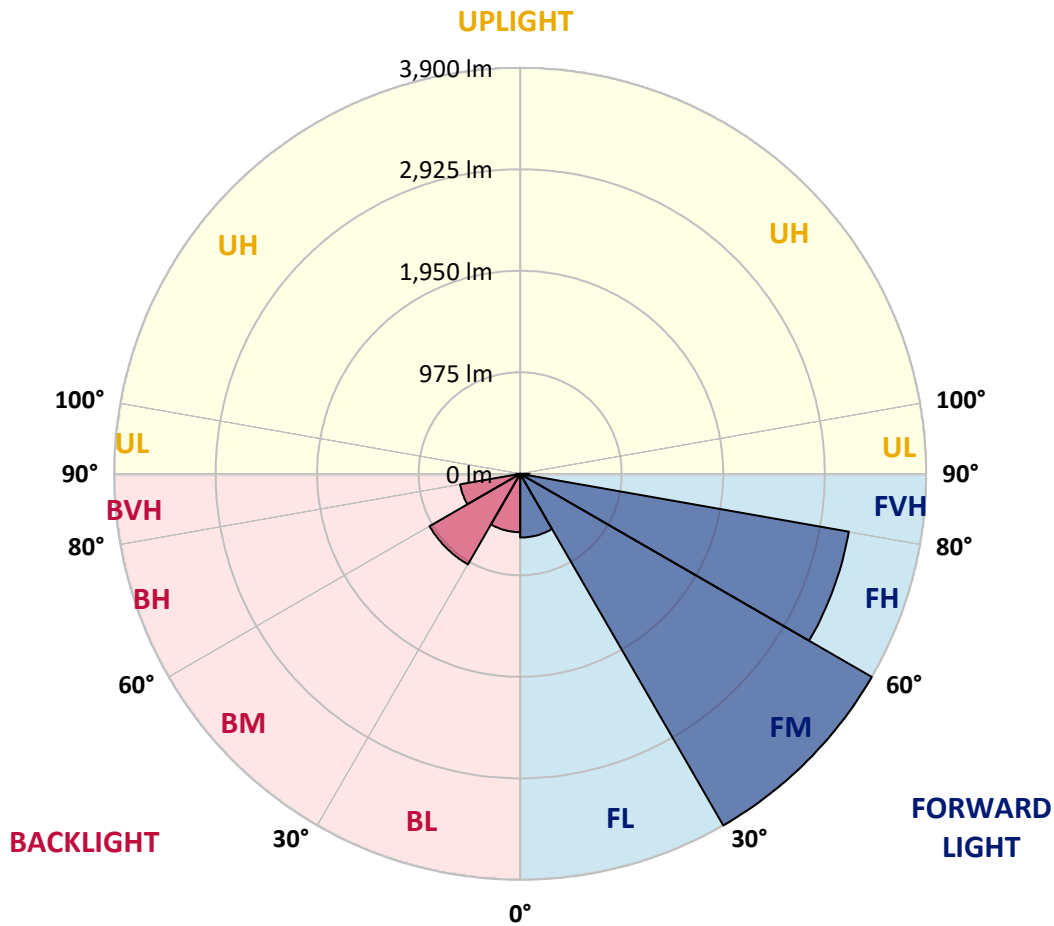
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.4	6.1			
FM (30°-60°)	3900.2	39.0			
FH (60°-80°)	3205.9	32.1			G2/5000
FVH (80°-90°)	88.5	0.9			G1/100
BL (0°-30°)	560.9	5.6	B2/1000		
BM (30°-60°)	1005.0	10.1	B2/2500		
BH (60°-80°)	585.0	5.9	B2/1000		G2/1000
BVH (80°-90°)	38.1	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5
2.5°	1285.5	1285.0	1291.6	1293.7	1306.0	1314.7	1331.1	1348.5	1371.0	1373.5
5°	1211.3	1211.3	1218.9	1227.1	1243.0	1260.4	1285.5	1315.7	1354.6	1360.7
7.5°	1148.3	1152.4	1159.0	1174.9	1193.3	1218.4	1256.8	1299.8	1351.0	1360.7
10°	1097.6	1102.2	1110.4	1123.2	1150.8	1185.7	1235.8	1291.1	1359.7	1375.1
12.5°	1081.7	1086.3	1091.0	1100.7	1126.3	1167.2	1227.1	1295.2	1380.7	1396.1
15°	1118.6	1124.2	1120.6	1118.1	1131.4	1168.8	1231.2	1310.1	1406.8	1428.8
17.5°	1203.6	1205.6	1197.4	1173.4	1171.3	1191.3	1250.7	1330.5	1439.6	1463.6
20°	1340.8	1337.2	1320.3	1272.7	1245.6	1241.5	1284.0	1361.3	1473.4	1499.0
22.5°	1527.1	1523.0	1489.2	1414.0	1353.6	1313.6	1332.1	1401.2	1511.3	1539.9
25°	1759.5	1753.9	1704.3	1601.9	1508.2	1409.4	1397.6	1453.9	1557.8	1584.5
27.5°	2030.9	2026.3	1972.5	1837.4	1702.2	1540.4	1479.0	1515.9	1606.5	1636.7
30°	2322.7	2336.0	2240.8	2095.4	1924.4	1711.4	1588.6	1592.1	1669.4	1696.6
32.5°	2665.7	2688.7	2574.1	2389.8	2156.3	1897.3	1726.8	1698.6	1761.1	1783.6
35°	3005.6	3031.7	2936.5	2732.8	2464.0	2116.4	1871.2	1821.0	1882.9	1907.5
37.5°	3299.5	3334.3	3285.1	3108.0	2793.2	2380.5	2059.5	1964.8	2032.9	2063.6
40°	3531.4	3584.6	3581.0	3470.5	3181.2	2701.0	2298.6	2142.5	2219.3	2252.5
42.5°	3719.8	3765.9	3805.8	3800.2	3586.2	3065.0	2579.7	2373.4	2431.7	2470.1
45°	3849.8	3899.0	3985.0	4077.6	3975.8	3454.6	2901.7	2647.3	2700.5	2758.3
47.5°	3966.0	4021.8	4133.4	4280.4	4306.5	3845.7	3254.4	2966.2	3014.8	3074.7
50°	3976.3	4024.4	4197.4	4405.8	4541.4	4221.5	3633.3	3324.0	3369.6	3433.6
52.5°	3729.0	3804.8	4106.8	4402.2	4649.5	4535.8	4009.5	3696.2	3747.4	3824.2
55°	2894.5	3005.6	3841.1	4265.0	4611.1	4739.1	4367.4	4092.0	4157.5	4237.9
57.5°	2493.2	2541.8	3049.1	4015.2	4436.0	4791.8	4669.4	4491.8	4597.2	4685.3
60°	2240.8	2281.2	2581.2	3626.6	4205.6	4708.3	4902.9	4864.5	5046.7	5151.7
62.5°	1970.5	2008.9	2281.7	3028.1	3910.7	4569.6	5050.3	5208.5	5507.5	5622.2
65°	1702.2	1735.0	1996.6	2544.4	3536.0	4430.9	5126.6	5505.9	5933.9	6052.7
67.5°	1403.2	1430.4	1677.6	2146.6	3080.4	4240.9	5164.5	5739.9	6305.1	6407.0
70°	1012.6	1033.6	1289.1	1697.6	2508.5	3914.3	5149.1	5905.8	6497.6	6579.0
72.5°	478.7	497.6	797.6	1102.2	1771.8	3278.5	4838.4	5774.2	6302.0	6261.6
75°	255.5	271.8	458.2	604.6	935.8	2247.4	3959.4	4974.0	5292.0	5095.4
77.5°	173.0	185.8	283.6	363.0	427.5	1066.9	2544.9	3443.8	3313.3	2988.7
80°	137.2	150.5	232.4	245.7	206.8	385.5	1051.5	1594.2	1145.2	915.9
82.5°	105.5	120.3	195.6	178.2	112.6	158.2	306.1	504.3	293.3	223.2
85°	64.5	80.4	153.6	113.7	63.5	72.2	103.9	140.3	89.6	74.7
87.5°	32.8	46.1	77.8	41.5	28.7	16.9	27.6	27.6	23.5	20.5
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°
1394.5	0°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5
1387.4	2.5°	1399.7	1409.9	1427.3	1443.7	1456.5	1468.8	1481.1	1487.7	1489.8	1497.9
1395.0	5°	1416.0	1435.0	1468.8	1500.5	1520.5	1532.8	1541.5	1546.6	1547.6	1550.2
1416.0	7.5°	1446.2	1476.4	1523.5	1555.3	1570.1	1569.1	1565.5	1552.7	1547.6	1543.0
1446.8	10°	1488.7	1528.7	1586.5	1608.5	1599.3	1574.7	1543.0	1505.6	1488.2	1471.3
1488.7	12.5°	1541.5	1592.1	1649.0	1647.9	1602.4	1539.4	1465.7	1408.4	1372.0	1345.9
1540.4	15°	1605.5	1663.8	1707.3	1672.5	1572.7	1459.5	1351.5	1276.8	1244.0	1215.4
1592.7	17.5°	1671.5	1734.0	1753.9	1664.8	1497.9	1341.3	1218.9	1160.1	1127.8	1112.5
1649.0	20°	1736.0	1797.9	1781.6	1620.8	1384.3	1207.2	1098.1	1065.9	1059.2	1062.8
1703.7	22.5°	1804.1	1859.4	1787.2	1535.8	1239.4	1070.0	1010.1	1011.1	1025.9	1036.7
1761.1	25°	1873.7	1911.1	1772.3	1413.0	1083.8	969.1	954.3	970.6	999.8	1020.8
1825.6	27.5°	1940.8	1957.2	1740.1	1260.9	950.2	896.9	899.5	933.3	977.3	1006.5
1903.9	30°	2016.5	1998.1	1678.1	1089.9	857.5	835.0	856.5	895.9	939.9	966.0
2002.7	32.5°	2102.0	2033.4	1579.9	931.7	792.0	785.3	820.6	846.2	865.7	873.4
2133.8	35°	2208.5	2083.1	1453.9	820.6	733.1	749.0	782.8	770.0	762.3	758.2
2309.9	37.5°	2346.7	2150.2	1306.5	748.5	685.5	722.9	736.7	696.8	666.6	651.7
2523.4	40°	2513.1	2248.5	1164.7	692.7	655.3	700.3	676.3	628.2	589.8	568.8
2763.5	42.5°	2697.9	2351.4	1045.4	650.7	638.4	681.9	631.7	574.4	512.5	505.8
3049.6	45°	2892.0	2457.3	964.0	618.4	630.2	666.0	606.1	513.5	469.5	496.6
3336.8	47.5°	3086.0	2554.6	914.8	594.4	626.1	648.1	583.6	479.7	448.5	487.9
3644.5	50°	3302.0	2641.6	892.8	577.0	621.5	641.0	549.8	471.0	426.4	452.6
3963.0	52.5°	3516.5	2709.2	876.4	559.6	614.8	635.3	533.4	460.7	399.8	401.4
4283.4	55°	3730.5	2753.2	858.5	536.5	600.0	623.0	531.9	449.5	379.9	372.7
4622.3	57.5°	3958.9	2778.3	836.5	510.9	574.4	591.8	530.4	440.8	373.7	361.9
4968.9	60°	4191.3	2815.2	807.8	479.7	540.1	554.4	526.8	437.7	370.1	350.2
5295.5	62.5°	4399.6	2828.0	773.5	450.0	496.1	517.6	519.1	435.2	360.4	326.1
5566.9	65°	4536.3	2772.7	713.6	416.2	448.5	479.7	504.3	426.4	343.0	308.7
5701.0	67.5°	4530.7	2615.0	620.0	372.7	402.4	437.7	482.8	411.6	322.0	287.2
5599.6	70°	4319.8	2303.7	501.2	322.0	351.7	392.7	455.1	389.6	296.9	263.7
4979.2	72.5°	3704.9	1803.1	364.0	262.6	292.8	346.1	419.3	363.0	271.3	242.7
3679.8	75°	2646.7	1141.1	246.8	201.7	227.8	293.3	374.7	331.7	247.8	243.7
1843.0	77.5°	1352.0	545.2	163.3	147.4	158.7	231.4	314.8	296.4	251.4	201.2
524.2	80°	439.8	201.2	102.9	100.3	105.5	154.1	243.7	243.2	190.4	136.7
127.0	82.5°	140.3	86.5	67.1	64.5	61.9	96.8	170.0	192.5	128.5	86.5
45.6	85°	55.8	51.7	39.4	36.3	26.1	45.6	89.1	128.0	95.7	62.5
11.8	87.5°	20.5	20.5	10.8	7.7	5.6	15.4	24.1	38.4	54.8	32.3
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>
1394.5
1502.6
1554.3
1544.0
1466.2
1339.8
1212.3
1117.1
1061.3
1039.2
1026.4
1013.6
972.2
877.5
762.3
655.3
570.3
512.5
510.9
506.3
472.0
412.1
377.8
363.5
351.7
326.1
308.7
288.7
266.7
241.1
229.9
179.2
120.8
86.0
64.0
31.7
0.0

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