

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: P946801

Luminaire Tested: **GALN-SB2B-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946801  
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-SB2B-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

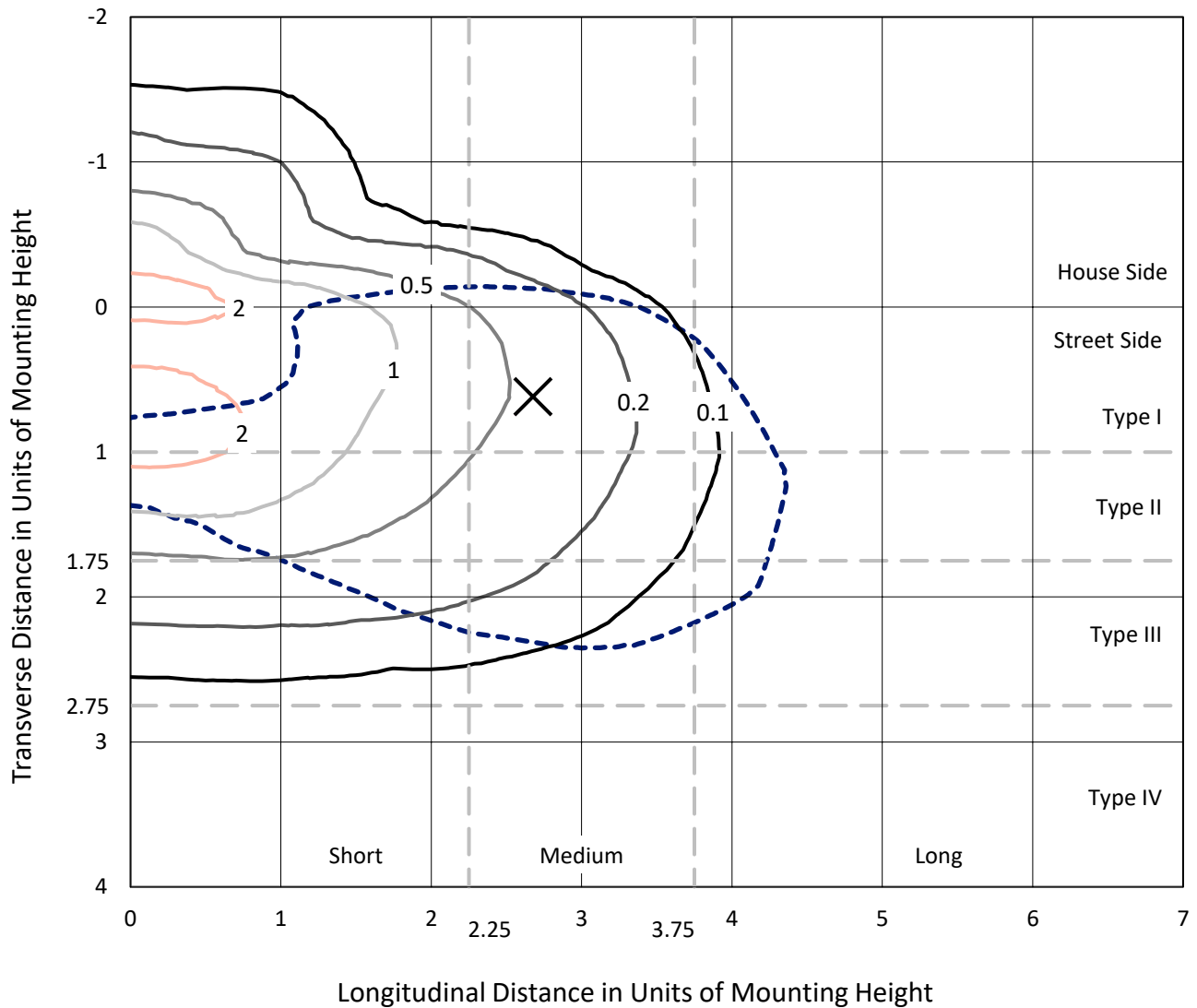
Lumens per Lamp: N/A  
Luminaire Lumens: 10388 lumens  
Efficiency: N/A  
Efficacy: 140.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

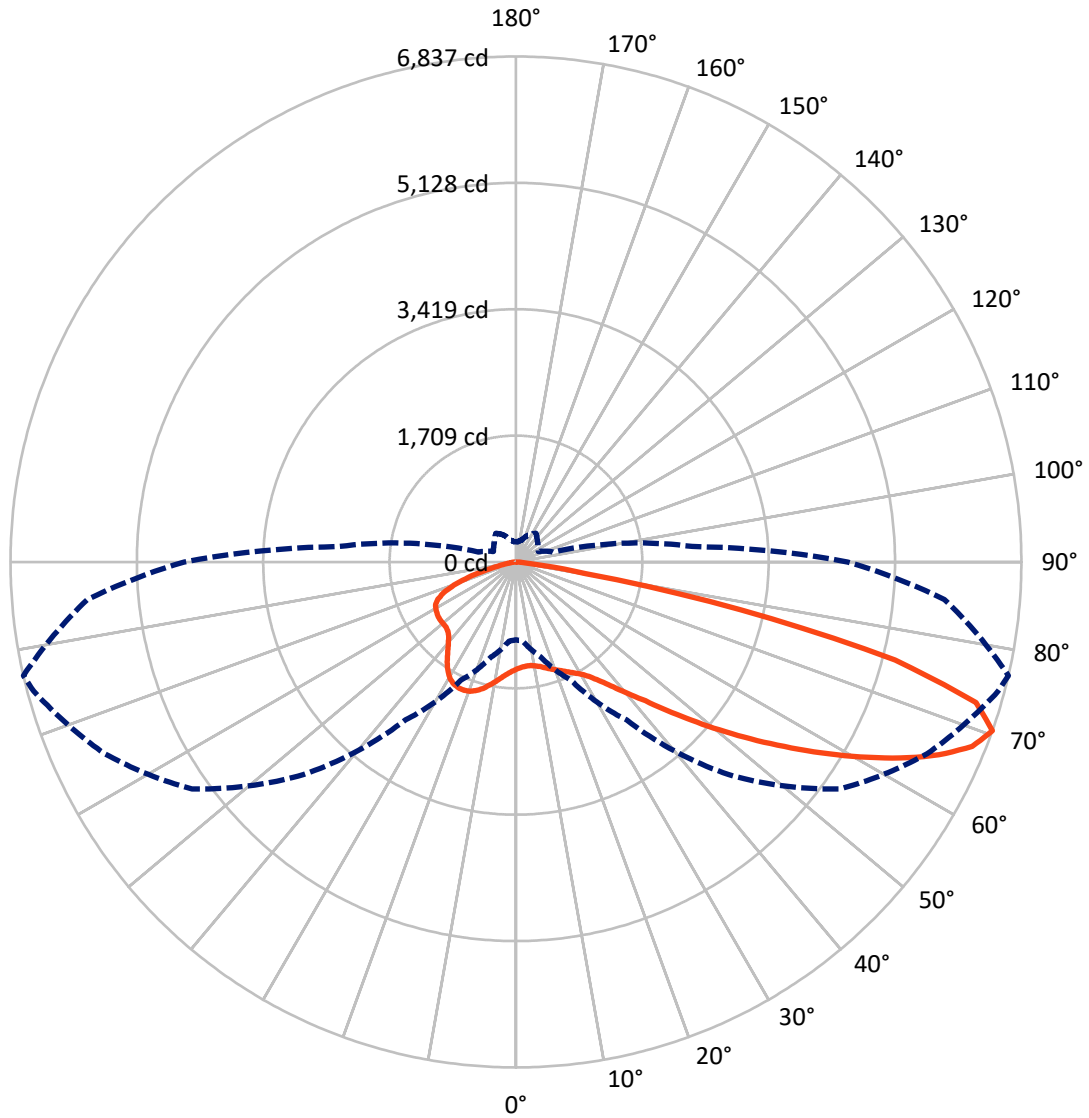
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type 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	2274.8	0.0	2274.8
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	8113.2	0.0	8113.2
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	10388.0	0.0	10388.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.2	1.3
10°-20°	398.9	3.8
20°-30°	682.2	6.6
30°-40°	1097.0	10.6
40°-50°	1712.7	16.5
50°-60°	2287.8	22.0
60°-70°	2438.5	23.5
70°-80°	1501.1	14.5
80°-90°	131.5	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°	10388.0	100.0
0°-180°	10388.0	100.0

**Coefficient of Utilization**



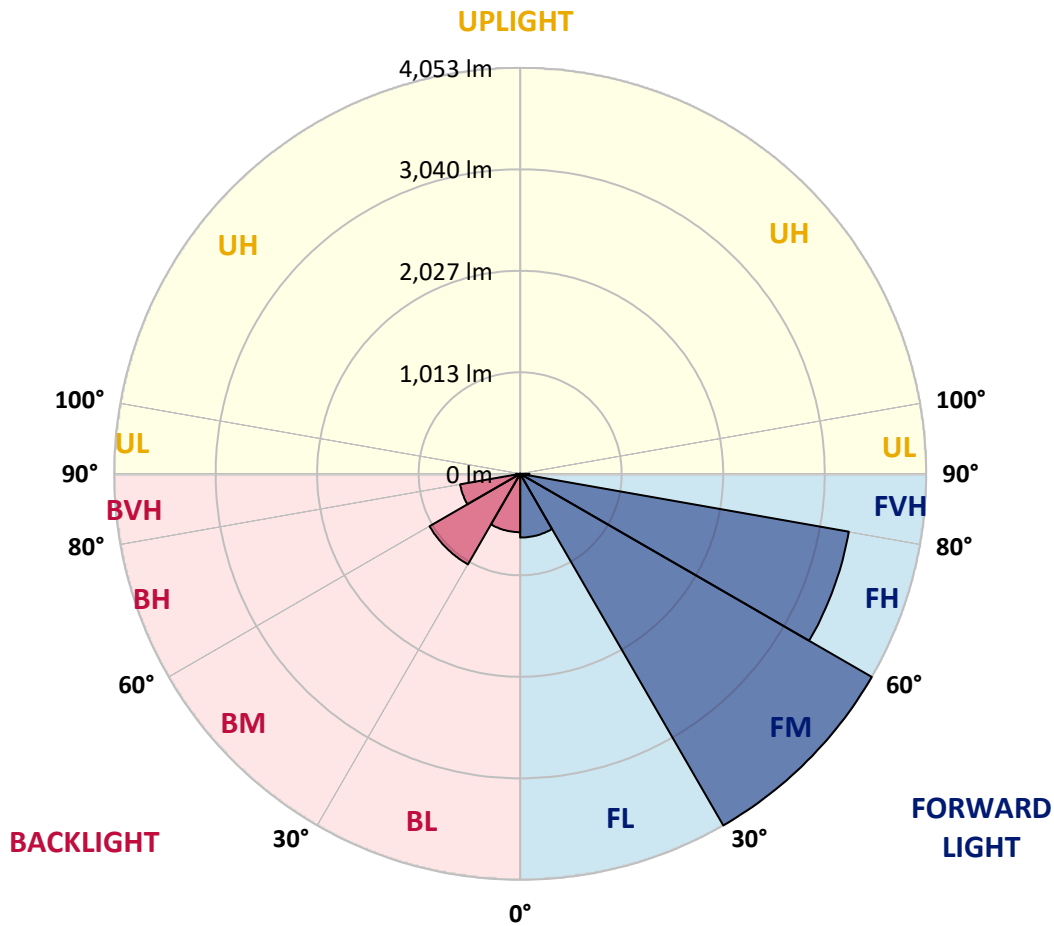
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.4	6.1			
FM (30°-60°)	4053.2	39.0			
FH (60°-80°)	3331.6	32.1			G2/5000
FVH (80°-90°)	92.0	0.9			G1/100
BL (0°-30°)	582.9	5.6	B2/1000		
BM (30°-60°)	1044.4	10.1	B2/2500		
BH (60°-80°)	608.0	5.9	B2/1000		G2/1000
BVH (80°-90°)	39.6	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°	1449.2	1449.2	1449.2	1449.2	1449.2	1449.2	1449.2	1449.2	1449.2	1449.2
2.5°	1335.9	1335.4	1342.3	1344.4	1357.2	1366.2	1383.3	1401.3	1424.7	1427.4
5°	1258.8	1258.8	1266.7	1275.3	1291.7	1309.8	1335.9	1367.3	1407.7	1414.1
7.5°	1193.3	1197.6	1204.5	1221.0	1240.1	1266.2	1306.1	1350.8	1404.0	1414.1
10°	1140.6	1145.4	1154.0	1167.3	1196.0	1232.2	1284.3	1341.8	1413.0	1429.0
12.5°	1124.2	1128.9	1133.7	1143.8	1170.4	1213.0	1275.3	1346.0	1434.9	1450.8
15°	1162.5	1168.3	1164.6	1161.9	1175.8	1214.6	1279.5	1361.4	1462.0	1484.9
17.5°	1250.8	1252.9	1244.4	1219.4	1217.3	1238.0	1299.7	1382.7	1496.0	1521.0
20°	1393.4	1389.6	1372.1	1322.6	1294.4	1290.1	1334.3	1414.6	1531.2	1557.8
22.5°	1587.0	1582.8	1547.6	1469.4	1406.7	1365.2	1384.3	1456.1	1570.5	1600.3
25°	1828.6	1822.7	1771.1	1664.7	1567.3	1464.6	1452.4	1510.9	1618.9	1646.6
27.5°	2110.5	2105.7	2049.9	1909.4	1769.0	1600.8	1537.0	1575.3	1669.5	1700.9
30°	2413.8	2427.6	2328.6	2177.6	1999.9	1778.5	1650.9	1654.6	1734.9	1763.1
32.5°	2770.2	2794.2	2675.0	2483.5	2240.9	1971.7	1794.5	1765.2	1830.1	1853.6
35°	3123.5	3150.6	3051.7	2839.9	2560.6	2199.4	1944.5	1892.4	1956.8	1982.3
37.5°	3428.9	3465.0	3414.0	3229.9	2902.7	2473.9	2140.3	2041.9	2112.6	2144.6
40°	3669.9	3725.2	3721.5	3606.6	3306.0	2806.9	2388.8	2226.5	2306.3	2340.9
42.5°	3865.7	3913.5	3955.0	3949.2	3726.8	3185.2	2680.8	2466.4	2527.1	2567.0
45°	4000.8	4051.9	4141.2	4237.5	4131.7	3590.1	3015.5	2751.1	2806.4	2866.5
47.5°	4121.6	4179.5	4295.5	4448.2	4475.3	3996.5	3382.0	3082.5	3133.1	3195.3
50°	4132.2	4182.2	4362.0	4578.6	4719.5	4387.0	3775.7	3454.4	3501.8	3568.3
52.5°	3875.2	3954.0	4267.9	4574.8	4831.8	4713.7	4166.8	3841.2	3894.4	3974.2
55°	3008.0	3123.5	3991.7	4432.3	4791.9	4924.9	4538.7	4252.4	4320.5	4404.1
57.5°	2590.9	2641.5	3168.7	4172.6	4609.9	4979.7	4852.5	4667.9	4777.5	4869.0
60°	2328.6	2370.7	2682.4	3768.8	4370.5	4893.0	5095.1	5055.2	5244.6	5353.7
62.5°	2047.7	2087.6	2371.2	3146.9	4064.1	4748.8	5248.4	5412.8	5723.5	5842.6
65°	1769.0	1803.0	2074.9	2644.1	3674.7	4604.6	5327.6	5721.9	6166.6	6290.1
67.5°	1458.3	1486.5	1743.4	2230.8	3201.2	4407.2	5367.0	5965.0	6552.4	6658.2
70°	1052.3	1074.1	1339.6	1764.2	2606.9	4067.8	5351.1	6137.4	6752.4	6837.0
72.5°	497.4	517.1	828.9	1145.4	1841.3	3407.1	5028.1	6000.6	6549.2	6507.1
75°	265.5	282.5	476.2	628.3	972.5	2335.6	4114.6	5169.1	5499.5	5295.2
77.5°	179.8	193.1	294.7	377.2	444.2	1108.7	2644.7	3578.9	3443.2	3105.9
80°	142.6	156.4	241.5	255.4	214.9	400.6	1092.8	1656.7	1190.1	951.8
82.5°	109.6	125.0	203.2	185.1	117.0	164.4	318.1	524.0	304.8	232.0
85°	67.0	83.5	159.6	118.1	66.0	75.0	108.0	145.8	93.1	77.7
87.5°	34.0	47.9	80.9	43.1	29.8	17.6	28.7	28.7	24.5	21.3
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°
1449.2	0°	1449.2	1449.2	1449.2	1449.2	1449.2	1449.2	1449.2	1449.2	1449.2	1449.2
1441.8	2.5°	1454.5	1465.2	1483.3	1500.3	1513.6	1526.4	1539.1	1546.0	1548.2	1556.7
1449.8	5°	1471.6	1491.3	1526.4	1559.3	1580.1	1592.9	1601.9	1607.2	1608.3	1611.0
1471.6	7.5°	1503.0	1534.3	1583.3	1616.3	1631.7	1630.6	1626.9	1613.6	1608.3	1603.5
1503.5	10°	1547.1	1588.6	1648.7	1671.6	1662.0	1636.5	1603.5	1564.7	1546.6	1529.0
1547.1	12.5°	1601.9	1654.6	1713.6	1712.6	1665.2	1599.8	1523.2	1463.6	1425.8	1398.7
1600.8	15°	1668.4	1729.1	1774.3	1738.1	1634.4	1516.8	1404.5	1326.9	1292.8	1263.0
1655.1	17.5°	1737.0	1801.9	1822.7	1730.1	1556.7	1393.9	1266.7	1205.6	1172.0	1156.1
1713.6	20°	1804.1	1868.5	1851.4	1684.4	1438.6	1254.5	1141.2	1107.7	1100.7	1104.5
1770.6	22.5°	1874.8	1932.3	1857.3	1596.1	1288.0	1111.9	1049.7	1050.7	1066.2	1077.3
1830.1	25°	1947.2	1986.0	1841.9	1468.4	1126.3	1007.1	991.7	1008.7	1039.0	1060.8
1897.2	27.5°	2016.9	2033.9	1808.3	1310.4	987.4	932.1	934.8	969.9	1015.6	1046.0
1978.6	30°	2095.6	2076.5	1744.0	1132.7	891.1	867.7	890.1	931.0	976.8	1003.9
2081.3	32.5°	2184.5	2113.2	1641.8	968.3	823.0	816.1	852.8	879.4	899.6	907.6
2217.5	35°	2295.1	2164.8	1510.9	852.8	761.9	778.3	813.5	800.2	792.2	787.9
2400.5	37.5°	2438.8	2234.5	1357.7	777.8	712.4	751.2	765.6	724.1	692.7	677.3
2622.3	40°	2611.7	2336.6	1210.3	719.8	681.0	727.8	702.8	652.8	612.9	591.1
2871.8	42.5°	2803.7	2443.6	1086.4	676.2	663.4	708.6	656.5	596.9	532.6	525.6
3169.2	45°	3005.4	2553.7	1001.8	642.7	654.9	692.2	629.9	533.6	487.9	516.1
3467.7	47.5°	3207.0	2654.8	950.7	617.7	650.7	673.5	606.5	498.5	466.0	507.0
3787.4	50°	3431.5	2745.2	927.8	599.6	645.9	666.1	571.4	489.5	443.2	470.3
4118.4	52.5°	3654.4	2815.4	910.8	581.5	639.0	660.2	554.4	478.8	415.5	417.1
4451.4	55°	3876.8	2861.2	892.2	557.6	623.5	647.5	552.8	467.1	394.8	387.3
4803.6	57.5°	4114.1	2887.3	869.3	531.0	596.9	615.0	551.2	458.1	388.4	376.1
5163.8	60°	4355.6	2925.6	839.5	498.5	561.3	576.2	547.4	454.9	384.7	363.9
5503.2	62.5°	4572.2	2938.9	803.9	467.6	515.5	537.9	539.5	452.2	374.5	338.9
5785.2	65°	4714.2	2881.4	741.6	432.5	466.0	498.5	524.0	443.2	356.5	320.8
5924.6	67.5°	4708.4	2717.6	644.3	387.3	418.2	454.9	501.7	427.7	334.6	298.5
5819.2	70°	4489.2	2394.1	520.8	334.6	365.5	408.1	473.0	404.9	308.6	274.0
5174.4	72.5°	3850.2	1873.8	378.3	272.9	304.3	359.6	435.7	377.2	282.0	252.2
3824.2	75°	2750.5	1185.9	256.4	209.6	236.7	304.8	389.4	344.7	257.5	253.2
1915.3	77.5°	1405.1	566.6	169.7	153.2	164.9	240.5	327.2	308.0	261.2	209.1
544.8	80°	457.0	209.1	106.9	104.3	109.6	160.1	253.2	252.7	197.9	142.0
131.9	82.5°	145.8	89.9	69.7	67.0	64.4	100.6	176.6	200.0	133.5	89.9
47.3	85°	58.0	53.7	41.0	37.8	27.1	47.3	92.6	133.0	99.5	64.9
12.2	87.5°	21.3	21.3	11.2	8.0	5.9	16.0	25.0	39.9	56.9	33.5
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>
1449.2
1561.5
1615.2
1604.6
1523.7
1392.3
1259.8
1160.9
1102.9
1080.0
1066.7
1053.4
1010.3
911.9
792.2
681.0
592.7
532.6
531.0
526.2
490.5
428.3
392.6
377.7
365.5
338.9
320.8
300.1
277.2
250.6
238.9
186.2
125.6
89.4
66.5
33.0
0.0

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