

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: P949280

Luminaire Tested: **GALN-SB4A-827-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949280  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

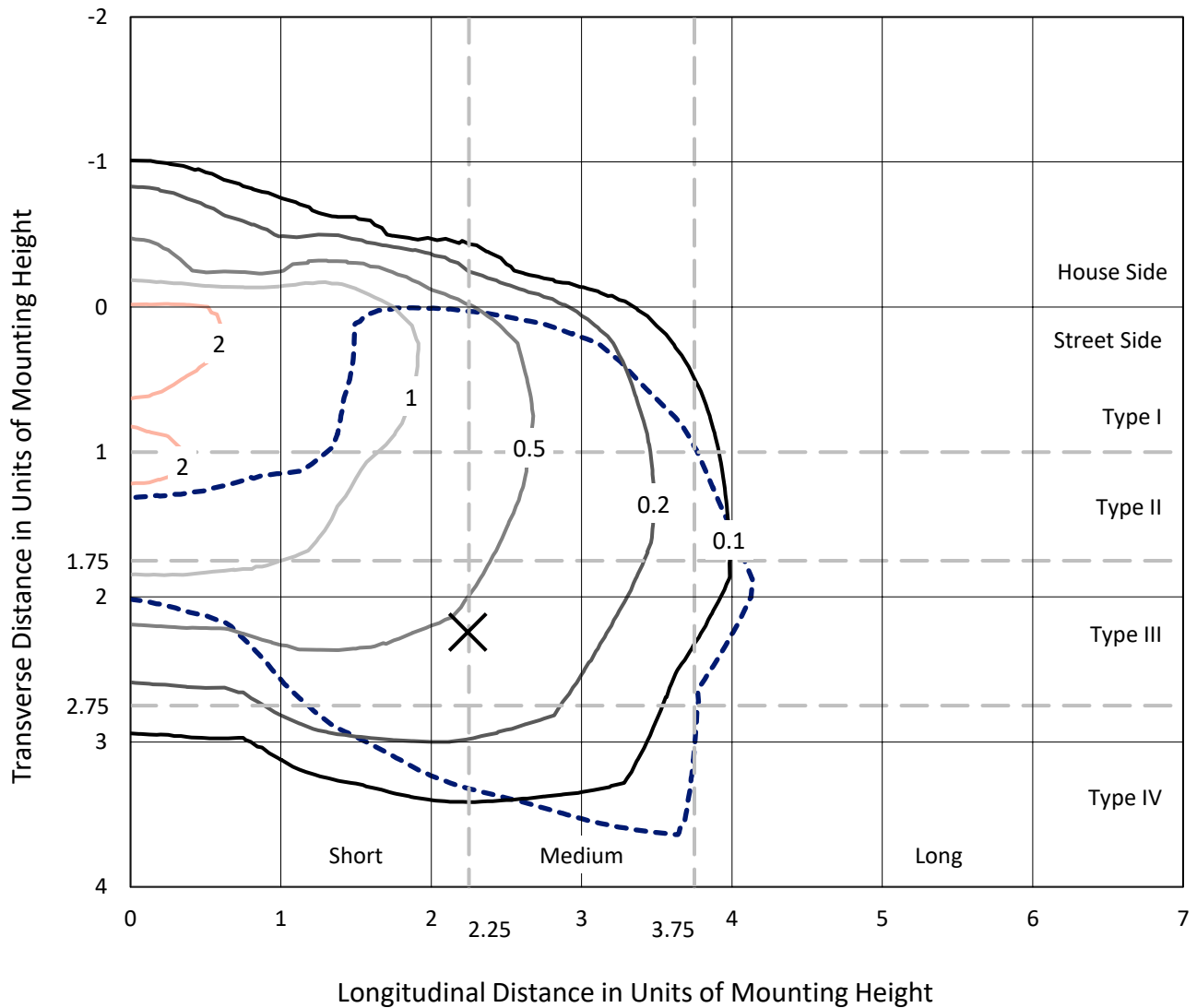
Lumens per Lamp: N/A  
Luminaire Lumens: 12042 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

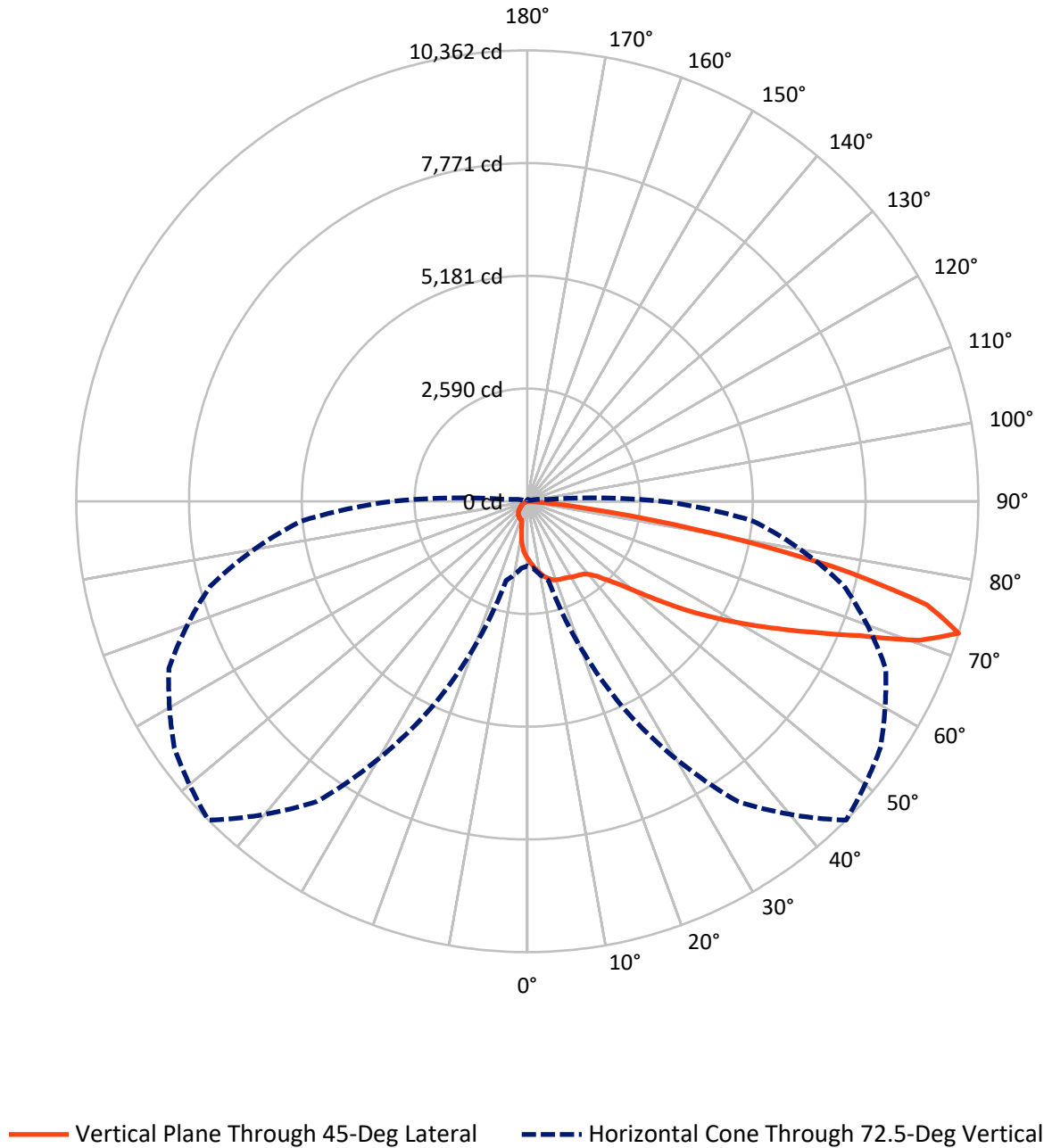
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1265.3	0.0	1265.3
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	10776.7	0.0	10776.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	12042.0	0.0	12042.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.3	1.0
10°-20°	363.3	3.0
20°-30°	596.5	5.0
30°-40°	846.0	7.0
40°-50°	1398.4	11.6
50°-60°	2512.1	20.9
60°-70°	3488.2	29.0
70°-80°	2530.2	21.0
80°-90°	182.9	1.5
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°	12042.0	100.0
0°-180°	12042.0	100.0

**Coefficient of Utilization**



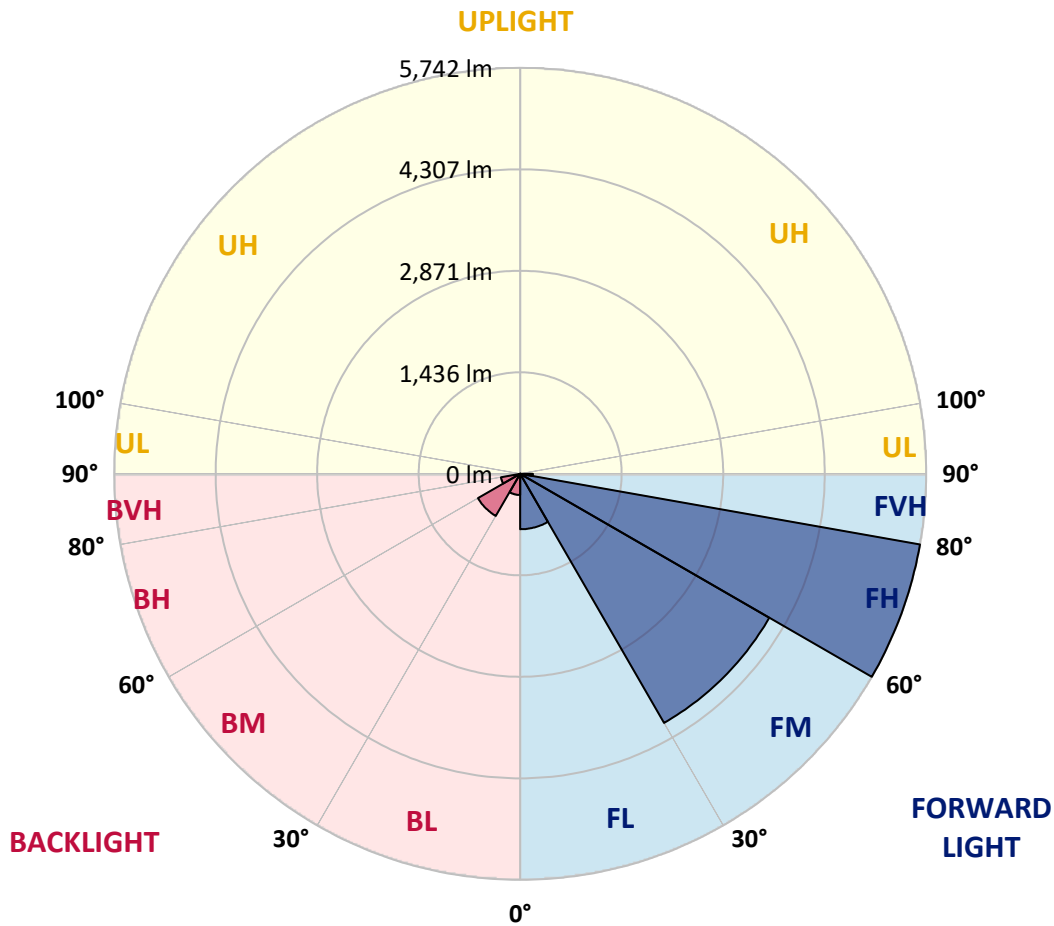
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	784.4	6.5			
FM (30°-60°)	4068.4	33.8			
FH (60°-80°)	5742.5	47.7			G3/7500
FVH (80°-90°)	181.4	1.5			G2/225
BL (0°-30°)	299.7	2.5	B1/500		
BM (30°-60°)	688.1	5.7	B1/1000		
BH (60°-80°)	275.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2
2.5°	1440.9	1443.3	1441.7	1431.8	1415.4	1406.4	1401.4	1385.0	1374.3	1355.4
5°	1573.2	1583.1	1577.3	1557.6	1526.4	1504.2	1497.6	1463.9	1433.5	1398.1
7.5°	1713.8	1718.7	1708.0	1682.5	1640.6	1602.8	1597.0	1550.2	1501.7	1447.5
10°	1835.4	1841.2	1824.7	1787.7	1740.1	1693.2	1685.0	1633.2	1575.7	1509.1
12.5°	1937.3	1943.1	1921.7	1877.3	1824.7	1776.2	1768.0	1713.8	1650.5	1576.5
15°	2014.6	2025.3	1996.5	1948.8	1892.1	1843.6	1839.5	1786.1	1724.4	1642.3
17.5°	2059.8	2070.5	2043.4	1985.8	1937.3	1896.2	1891.3	1846.9	1789.4	1710.5
20°	2067.2	2077.1	2048.3	1998.2	1957.9	1925.0	1922.5	1890.5	1848.6	1772.9
22.5°	2045.0	2057.3	2031.0	1990.8	1962.8	1945.6	1942.3	1924.2	1900.3	1836.2
25°	2022.0	2031.9	2012.1	1976.8	1962.0	1960.3	1962.8	1959.5	1954.6	1900.3
27.5°	2020.3	2031.0	2008.8	1975.1	1966.9	1984.2	1986.6	2002.3	2006.4	1958.7
30°	2034.3	2041.7	2020.3	1985.0	1980.9	2020.3	2021.2	2049.1	2055.7	2008.0
32.5°	2064.7	2073.0	2051.6	1999.8	1994.0	2049.1	2051.6	2088.6	2099.3	2060.6
35°	2136.2	2146.1	2121.4	2040.9	2020.3	2076.2	2083.6	2127.2	2148.6	2116.5
37.5°	2314.6	2285.8	2252.1	2123.9	2080.4	2119.0	2131.3	2182.3	2220.1	2183.1
40°	2757.6	2667.2	2562.0	2265.3	2185.6	2210.2	2220.1	2271.0	2322.8	2286.7
42.5°	3422.6	3315.7	3146.4	2590.8	2344.2	2356.5	2363.9	2408.3	2481.5	2452.7
45°	4015.2	3976.6	3804.0	3146.4	2640.9	2580.1	2589.1	2612.2	2719.8	2709.1
47.5°	4470.6	4448.4	4315.2	3784.2	3142.3	2853.8	2879.3	2890.0	3045.3	3083.1
50°	4820.7	4812.5	4693.3	4351.4	3797.4	3257.4	3266.4	3243.4	3476.0	3569.7
52.5°	5151.1	5179.1	5091.1	4878.3	4496.9	3785.9	3784.2	3675.8	3989.7	4131.1
55°	5449.5	5459.4	5468.4	5415.8	5200.5	4387.6	4371.9	4194.4	4585.6	4732.0
57.5°	5729.8	5733.9	5814.5	5922.1	5932.8	5033.6	5004.8	4792.0	5236.6	5341.0
60°	5918.0	5936.9	6107.1	6406.3	6537.0	5700.2	5684.6	5467.6	5899.1	5947.6
62.5°	5646.8	5761.9	6190.9	6784.4	7107.4	6439.1	6431.7	6227.9	6596.1	6556.7
65°	4570.9	4765.7	5520.2	7040.0	7667.1	7264.4	7275.1	7058.1	7312.1	7183.8
67.5°	3197.4	3402.9	4295.5	7060.5	8292.6	8233.5	8295.1	7954.8	8072.4	7784.7
70°	2211.0	2317.1	2898.2	6618.3	8780.0	9568.3	9566.7	9056.2	8828.5	8058.4
72.5°	1486.9	1542.0	1882.3	5250.6	8421.7	10361.5	10313.8	9897.9	9083.3	7536.4
75°	627.1	667.4	871.3	2950.8	6662.7	9479.5	9350.5	8747.2	8070.7	5934.5
77.5°	198.9	216.2	343.6	1056.2	3670.0	7125.5	6989.0	5462.7	5409.2	2977.1
80°	94.5	110.1	193.2	424.1	1444.2	3875.5	3856.6	2478.2	2326.9	803.9
82.5°	41.1	48.5	106.9	226.9	646.1	1382.5	1410.5	843.3	697.8	304.9
85°	13.2	17.3	49.3	104.4	272.9	343.6	339.5	200.6	281.1	166.0
87.5°	0.0	0.0	16.4	23.8	27.9	19.7	22.2	17.3	78.1	46.0
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°
1319.2	0°	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2
1335.7	2.5°	1325.8	1312.7	1289.6	1268.3	1249.4	1230.5	1218.9	1202.5	1200.9	1200.9
1357.0	5°	1334.8	1313.5	1272.4	1228.8	1178.7	1131.0	1083.3	1037.3	1022.5	1011.8
1391.6	7.5°	1361.1	1327.4	1262.5	1179.5	1084.1	979.8	906.6	827.7	797.3	780.9
1437.6	10°	1399.0	1352.9	1254.3	1108.8	954.3	812.1	707.7	622.2	589.3	575.4
1487.7	12.5°	1440.9	1384.2	1239.5	1020.9	812.1	641.9	540.0	500.6	495.6	495.6
1547.7	15°	1491.0	1422.0	1214.0	917.3	663.3	508.0	471.8	473.4	478.4	481.7
1606.1	17.5°	1542.8	1462.2	1173.7	801.4	531.8	457.0	457.8	460.3	464.4	467.7
1669.4	20°	1598.7	1502.5	1120.3	678.1	456.2	442.2	444.7	447.1	450.4	452.1
1728.6	22.5°	1658.7	1540.3	1057.0	557.3	430.7	429.9	430.7	433.2	437.3	437.3
1797.6	25°	1722.8	1582.3	984.7	469.3	417.5	417.5	419.2	420.8	424.1	424.1
1864.2	27.5°	1788.6	1620.9	908.3	423.3	406.0	405.2	405.2	407.7	409.3	410.2
1929.9	30°	1860.9	1666.1	831.8	413.4	397.0	392.9	390.4	392.1	393.7	394.5
1999.0	32.5°	1934.9	1709.7	763.6	417.5	388.0	380.6	372.3	370.7	370.7	374.0
2070.5	35°	2017.1	1757.3	711.0	431.5	383.0	362.5	349.3	341.9	342.8	347.7
2156.0	37.5°	2115.7	1814.9	672.4	443.9	379.7	341.9	320.6	311.5	305.8	311.5
2273.5	40°	2244.7	1899.5	644.4	453.7	375.6	318.1	289.3	274.5	263.8	267.1
2456.0	42.5°	2434.6	2032.7	633.7	454.5	366.6	290.1	257.3	237.5	221.9	222.7
2730.5	45°	2700.9	2243.1	688.8	443.9	346.9	259.7	223.6	197.3	187.4	184.9
3140.7	47.5°	3065.9	2549.7	816.2	421.7	318.1	230.1	190.7	168.5	161.1	157.0
3679.0	50°	3554.9	2943.4	957.6	397.0	289.3	202.2	163.6	149.6	144.7	140.6
4317.7	52.5°	4122.1	3342.9	1073.5	372.3	260.6	177.5	146.3	138.1	134.0	130.7
4934.2	55°	4642.4	3618.2	1066.9	346.0	232.6	157.8	134.0	129.0	124.1	120.8
5465.1	57.5°	4966.2	3656.8	879.5	317.3	200.6	142.2	122.5	119.2	113.4	109.3
5924.6	60°	5115.0	3436.6	616.5	279.5	168.5	127.4	110.1	108.5	101.1	95.3
6359.4	62.5°	5142.1	3027.2	411.0	232.6	140.6	113.4	97.8	95.3	85.5	75.6
6712.9	65°	5032.0	2442.0	284.4	181.7	120.0	98.6	83.8	78.9	68.2	58.4
6796.7	67.5°	4683.5	1714.6	198.1	130.7	101.9	78.1	66.6	64.9	56.7	48.5
6369.3	70°	4044.8	977.3	132.3	97.8	80.6	53.4	52.6	54.2	46.0	39.5
5203.8	72.5°	3101.2	447.1	82.2	71.5	55.1	36.2	41.9	42.7	35.3	29.6
3246.7	75°	1825.5	191.5	51.8	46.0	27.9	23.8	30.4	31.2	23.8	18.9
1186.9	77.5°	621.4	72.3	32.9	27.1	14.0	13.2	19.7	19.7	13.2	7.4
238.4	80°	141.4	27.1	16.4	10.7	6.6	5.8	6.6	5.8	3.3	0.8
73.2	82.5°	40.3	10.7	6.6	4.1	2.5	2.5	0.8	0.0	0.0	0.0
25.5	85°	11.5	4.9	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
9.0	87.5°	4.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1319.2
1205.0
1016.7
783.3
575.4
495.6
481.7
467.7
452.9
438.9
424.9
411.0
396.2
376.5
350.1
309.9
265.5
219.5
181.7
154.5
139.7
129.9
119.2
108.5
93.7
70.7
55.1
46.0
36.2
26.3
16.4
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