

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: P941044

Luminaire Tested: **GALN-SB4B-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10031 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

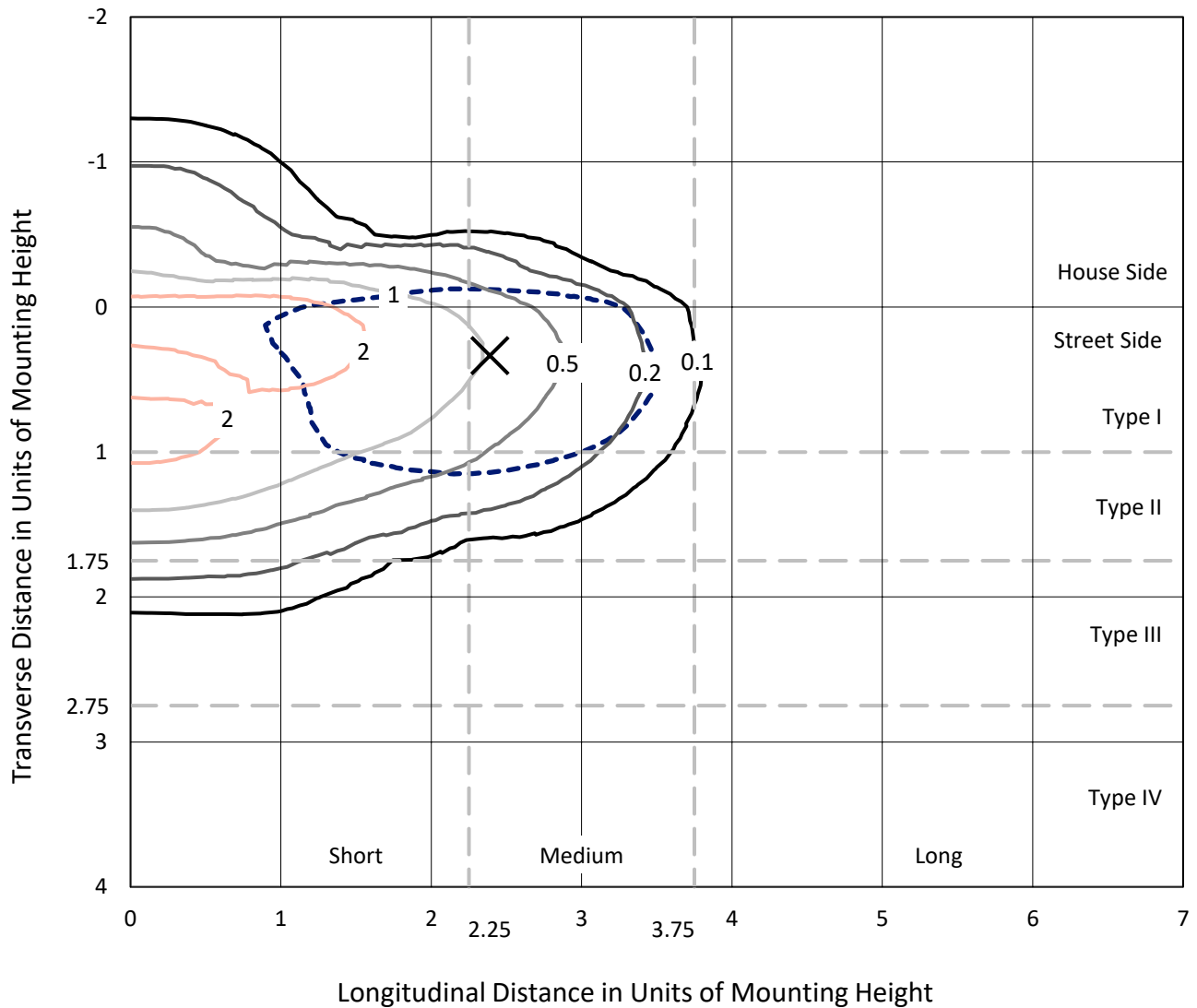
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

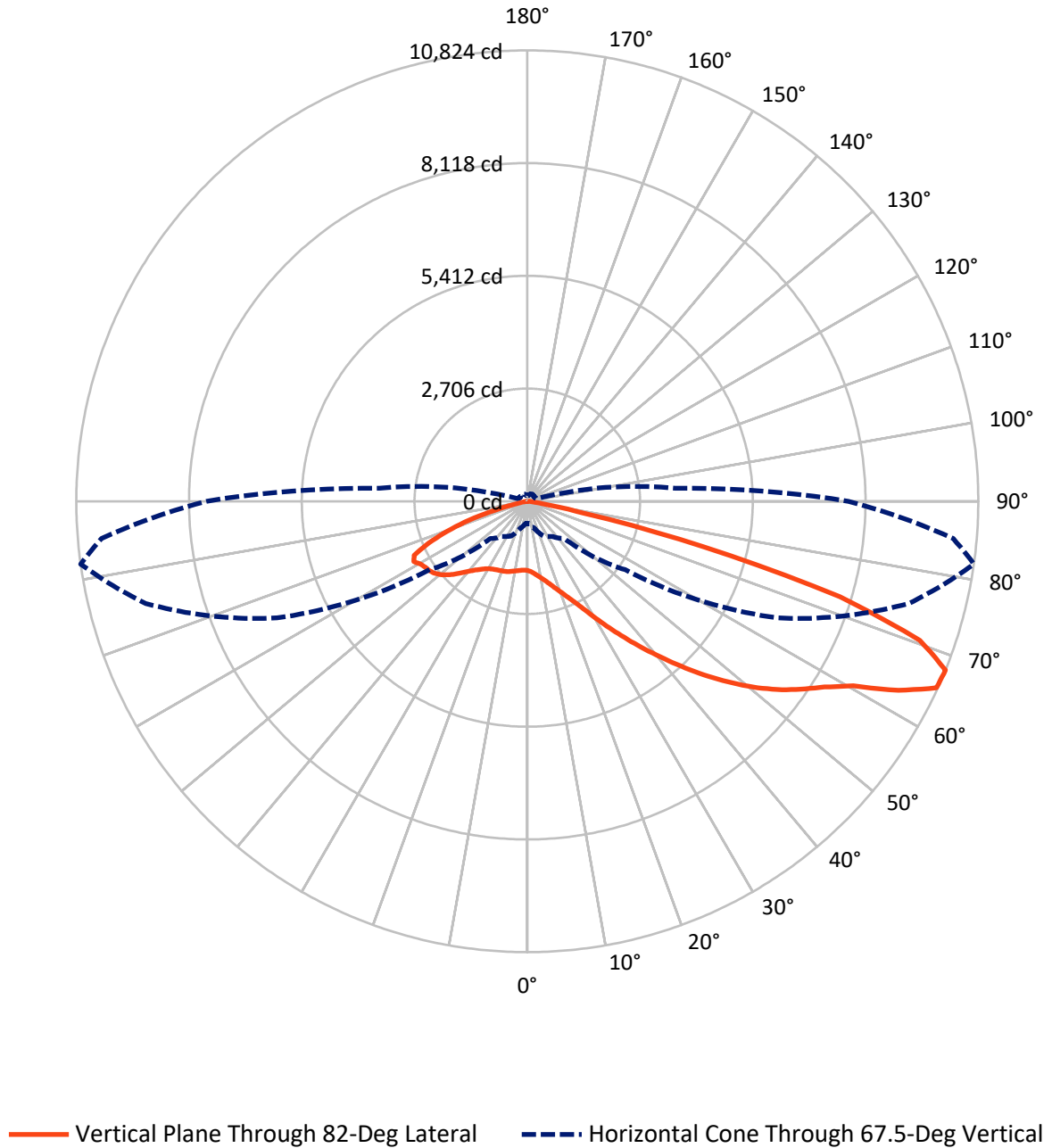
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1817.0	0.0	1817.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8214.0	0.0	8214.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	10031.0	0.0	10031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	1.5
10°-20°	384.7	3.8
20°-30°	616.2	6.1
30°-40°	1089.7	10.9
40°-50°	1909.2	19.0
50°-60°	2546.3	25.4
60°-70°	2370.5	23.6
70°-80°	909.8	9.1
80°-90°	56.5	0.6
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°	10031.0	100.0
0°-180°	10031.0	100.0

Coefficient of Utilization



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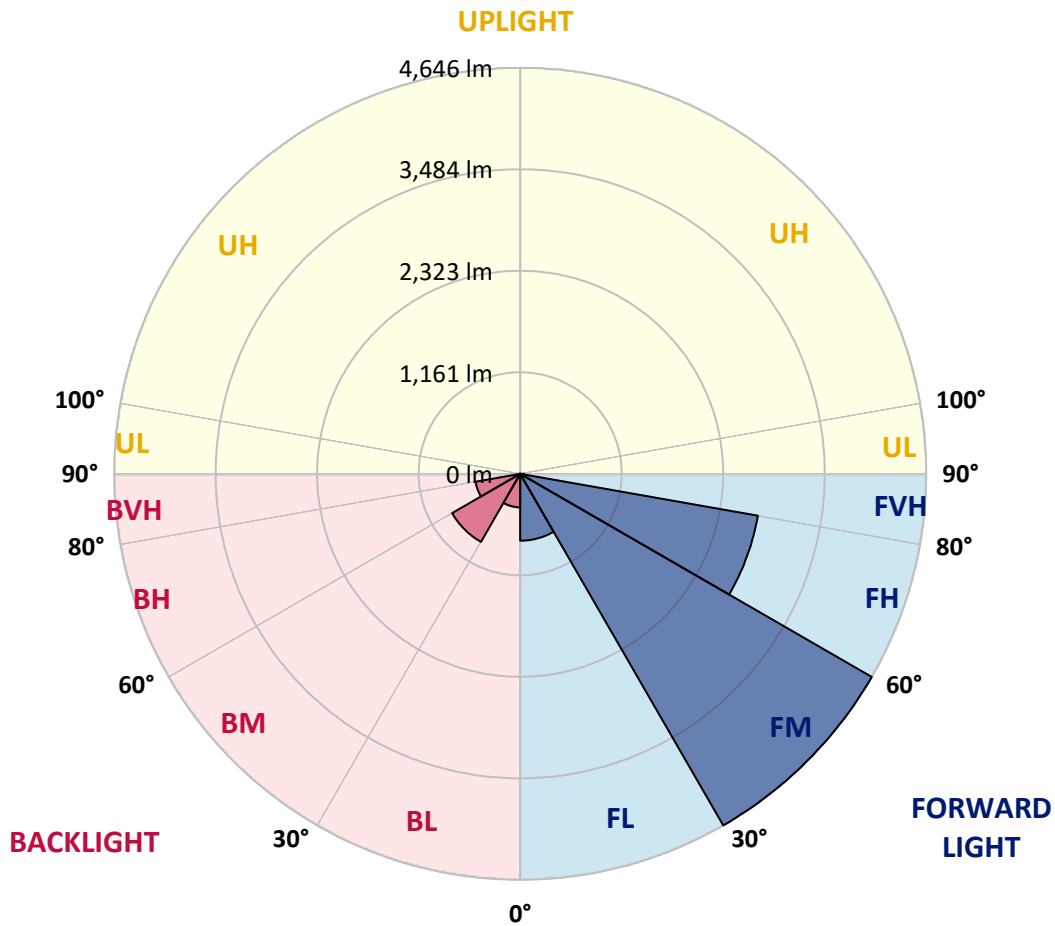
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.3	7.6			
FM (30°-60°)	4645.9	46.3			
FH (60°-80°)	2761.7	27.5			G2/5000
FVH (80°-90°)	41.1	0.4			G1/100
BL (0°-30°)	383.8	3.8	B1/500		
BM (30°-60°)	899.2	9.0	B1/1000		
BH (60°-80°)	518.6	5.2	B2/1000		G2/1000
BVH (80°-90°)	15.4	0.2			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°	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8
2.5°	1756.4	1766.5	1760.7	1757.9	1752.8	1745.6	1739.8	1721.7	1703.0	1690.7
5°	1791.8	1801.9	1801.2	1804.1	1807.7	1809.8	1808.4	1788.2	1761.5	1740.5
7.5°	1761.5	1773.0	1782.4	1796.8	1822.1	1848.8	1861.8	1857.5	1830.1	1801.2
10°	1675.5	1687.8	1710.2	1744.1	1797.6	1855.3	1903.7	1926.1	1908.8	1877.0
12.5°	1518.1	1530.4	1574.4	1648.1	1737.6	1838.0	1930.5	1990.4	1994.7	1963.0
15°	1341.1	1353.4	1400.4	1492.8	1629.3	1790.4	1944.9	2058.3	2096.6	2069.1
17.5°	1231.4	1242.2	1277.6	1352.0	1494.2	1695.0	1939.8	2130.5	2217.9	2196.2
20°	1198.1	1207.5	1224.1	1276.1	1394.6	1596.1	1906.6	2198.4	2348.6	2336.3
22.5°	1233.5	1242.2	1247.3	1270.4	1344.7	1531.1	1864.7	2267.7	2500.3	2501.7
25°	1315.1	1323.8	1318.0	1332.5	1365.0	1510.9	1848.8	2349.3	2690.9	2706.8
27.5°	1449.5	1450.2	1436.5	1435.7	1440.8	1541.2	1865.5	2436.7	2931.4	2961.0
30°	1718.9	1708.0	1655.3	1598.2	1572.2	1632.2	1911.7	2540.0	3215.3	3268.0
32.5°	2134.1	2118.2	2021.5	1885.0	1747.7	1778.8	1994.7	2657.7	3524.4	3619.7
35°	2584.8	2580.4	2479.3	2276.4	2036.6	1987.5	2129.8	2812.3	3861.6	4013.3
37.5°	3003.7	3001.5	2943.7	2704.7	2412.9	2278.6	2346.4	3014.5	4222.7	4442.3
40°	3386.4	3392.9	3335.1	3121.4	2827.4	2651.9	2641.1	3264.4	4624.3	4909.6
42.5°	3717.2	3724.4	3665.9	3507.8	3236.9	3065.0	3002.9	3570.6	5016.4	5411.5
45°	3941.8	3986.6	3977.9	3851.5	3657.3	3478.9	3437.7	3954.8	5463.5	5943.8
47.5°	4005.4	4046.5	4111.5	4128.9	4010.4	3834.9	3884.0	4417.7	5915.6	6476.7
50°	3848.6	3886.9	4022.0	4201.8	4284.1	4230.0	4318.1	4913.9	6378.5	7008.3
52.5°	3539.5	3578.5	3749.0	4033.5	4369.3	4539.8	4753.6	5402.8	6827.0	7511.7
55°	3092.5	3133.7	3352.5	3674.6	4206.9	4667.6	5116.8	5891.0	7238.0	7964.5
57.5°	2484.4	2514.7	2742.2	3192.9	3798.1	4540.5	5384.8	6424.0	7625.1	8409.4
60°	1619.2	1645.9	1910.2	2412.9	3120.7	4115.9	5438.2	7018.4	8139.3	8987.9
62.5°	1076.8	1094.9	1251.6	1620.6	2197.7	3300.5	5125.5	7492.9	8893.3	9994.6
65°	738.8	756.9	913.6	1170.7	1419.9	2183.2	4226.4	7430.1	9576.5	10794.1
67.5°	527.2	542.4	675.3	917.9	1027.7	1268.2	2865.0	6627.0	9478.2	10824.4
70°	377.7	386.4	496.2	715.0	816.8	761.9	1593.2	5068.4	8298.9	9995.3
72.5°	264.3	267.2	344.5	544.5	657.9	556.1	758.3	3379.2	6276.7	7845.3
75°	179.1	182.7	231.8	399.4	527.9	424.7	401.5	1812.0	3684.7	4342.6
77.5°	109.8	111.2	149.5	273.0	395.0	323.5	258.5	767.7	1425.6	1399.6
80°	62.1	62.1	95.3	169.7	269.4	208.7	181.3	326.4	451.4	396.5
82.5°	34.7	35.4	69.3	105.4	178.4	123.5	99.7	150.9	195.0	172.6
85°	14.4	15.9	42.6	49.8	85.2	61.4	40.4	63.6	72.2	64.3
87.5°	1.4	2.2	13.0	9.4	10.1	12.3	5.8	12.3	10.1	10.1
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°
1661.8	0°	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8
1686.4	2.5°	1672.6	1661.8	1634.4	1602.6	1560.7	1540.5	1513.0	1494.2	1478.4	1479.8
1728.2	5°	1705.1	1677.7	1616.3	1539.7	1444.4	1376.5	1304.3	1254.5	1214.0	1205.4
1786.0	7.5°	1749.9	1706.6	1599.0	1461.0	1300.0	1177.9	1068.9	998.8	949.0	933.1
1856.1	10°	1807.7	1744.9	1576.6	1362.1	1130.3	975.0	858.0	803.1	769.1	757.6
1938.4	12.5°	1874.8	1788.9	1547.0	1241.5	955.5	806.0	731.6	704.2	693.3	689.7
2039.5	15°	1959.3	1843.8	1502.2	1098.5	807.4	702.7	670.9	667.3	668.8	667.3
2160.8	17.5°	2059.7	1903.7	1429.2	951.1	707.8	650.0	638.4	641.3	644.9	644.2
2296.6	20°	2169.5	1963.0	1336.1	820.4	639.9	612.4	605.9	608.8	611.7	610.3
2453.3	22.5°	2294.5	2026.5	1232.8	718.6	594.4	577.8	570.5	571.3	571.3	568.4
2651.9	25°	2443.9	2096.6	1124.5	646.4	559.7	546.7	538.0	535.2	530.8	522.2
2893.2	27.5°	2622.3	2171.0	1020.5	595.8	532.3	520.0	509.9	502.7	491.8	477.4
3182.8	30°	2823.1	2261.2	932.4	564.0	510.6	498.3	486.8	475.9	460.0	442.0
3515.7	32.5°	3059.3	2358.0	868.1	543.1	491.1	478.1	464.4	451.4	434.0	416.0
3889.8	35°	3340.9	2475.0	830.5	528.7	475.9	458.6	443.4	429.0	416.0	400.1
4296.4	37.5°	3646.4	2599.2	819.0	521.4	465.8	439.1	421.8	411.7	410.2	400.8
4736.2	40°	3980.8	2746.6	827.6	517.1	455.0	420.3	401.5	399.4	403.0	386.4
5206.4	42.5°	4334.7	2921.3	842.1	512.0	439.8	401.5	383.5	383.5	380.6	357.5
5703.3	45°	4717.5	3122.8	856.5	499.8	421.8	382.8	369.0	364.0	351.7	329.3
6203.0	47.5°	5103.1	3327.9	867.4	477.4	400.1	366.9	354.6	343.0	325.0	304.8
6693.4	50°	5469.3	3512.1	855.8	444.2	375.5	351.7	338.7	322.8	303.3	289.6
7157.8	52.5°	5796.4	3671.7	806.7	405.2	349.5	335.8	324.3	307.7	291.8	277.3
7576.7	55°	6081.0	3801.0	720.0	368.3	326.4	322.1	310.5	289.6	267.9	255.7
7991.9	57.5°	6354.0	3899.2	611.7	338.0	305.5	306.9	289.6	270.8	250.6	237.6
8551.6	60°	6717.2	4030.6	501.9	309.8	283.1	287.4	268.7	254.9	229.7	213.1
9511.5	62.5°	7297.9	4235.0	398.7	275.2	257.1	258.5	250.6	234.0	203.7	184.2
10222.8	65°	7758.7	4159.9	314.2	237.6	227.5	229.7	229.7	211.6	179.1	156.7
10261.1	67.5°	7706.7	3561.9	250.6	200.8	199.3	200.8	205.8	190.7	158.9	140.8
9479.7	70°	7099.3	2833.2	200.8	166.8	173.3	169.7	184.2	174.1	143.0	124.9
7349.2	72.5°	5792.8	2041.0	153.1	137.9	132.9	138.7	166.1	156.7	119.2	98.9
3892.7	75°	3385.0	1089.1	114.1	109.1	96.1	115.6	147.3	133.6	91.0	72.9
1193.1	77.5°	1102.1	379.9	83.8	80.2	71.5	93.2	125.7	112.7	74.4	57.8
349.5	80°	295.4	114.8	57.1	52.7	46.2	69.3	99.7	89.6	53.4	37.6
150.2	82.5°	118.4	48.4	33.2	29.6	25.3	47.7	78.7	72.2	39.7	23.8
46.9	85°	38.3	15.9	12.3	9.4	11.6	29.6	46.9	49.1	28.2	12.3
7.2	87.5°	5.1	2.2	2.2	2.9	2.2	5.1	14.4	13.7	7.9	1.4
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>
1661.8
1465.4
1185.9
917.2
748.9
687.5
666.6
642.8
609.5
566.9
520.7
475.9
440.5
416.7
398.7
400.1
387.1
357.5
328.6
304.0
287.4
275.9
254.2
236.2
210.9
182.7
154.6
137.9
122.8
96.8
70.8
55.6
36.8
23.8
9.4
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