

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: P940838

Luminaire Tested: **GALN-SB4A-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12231 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

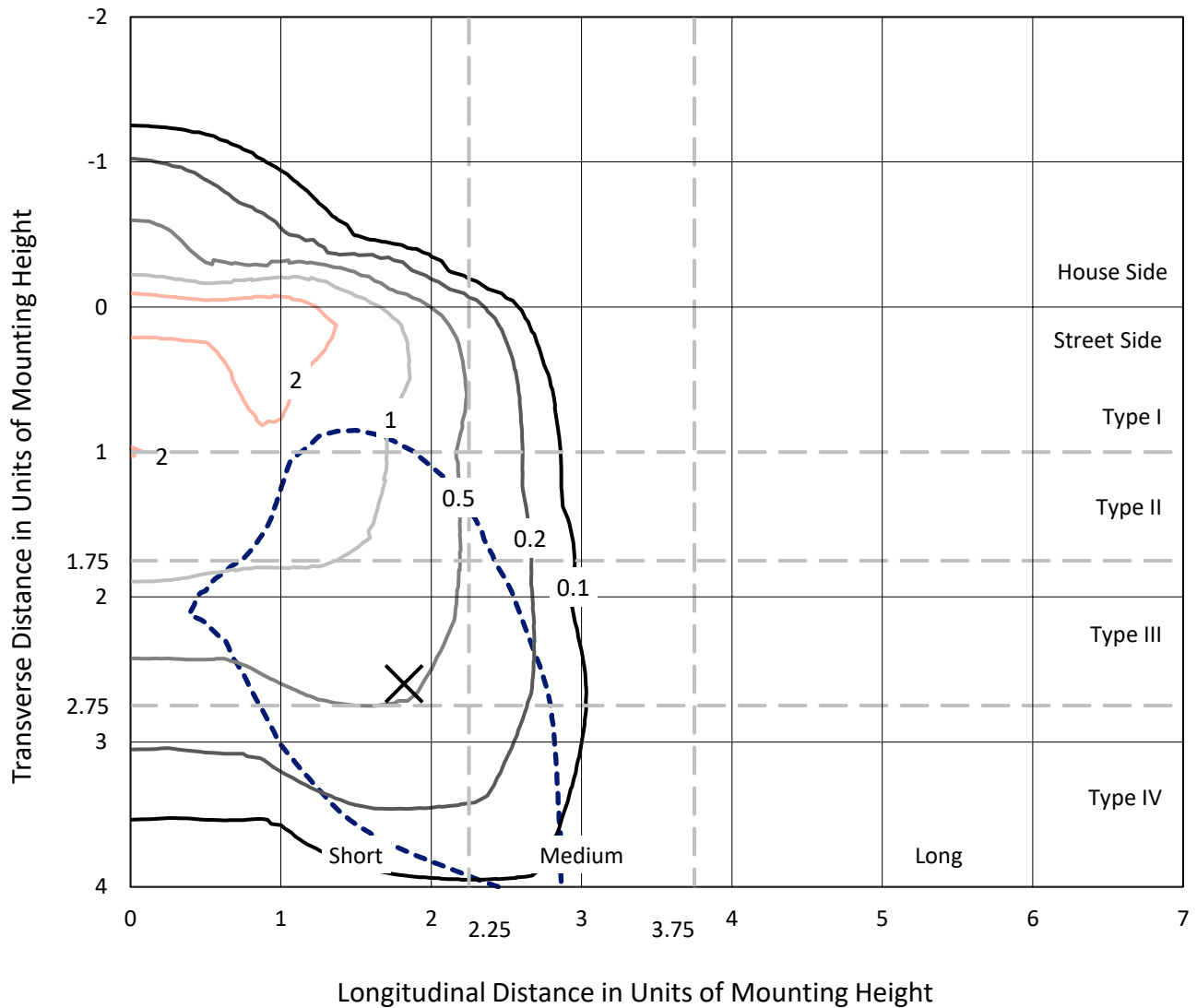
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

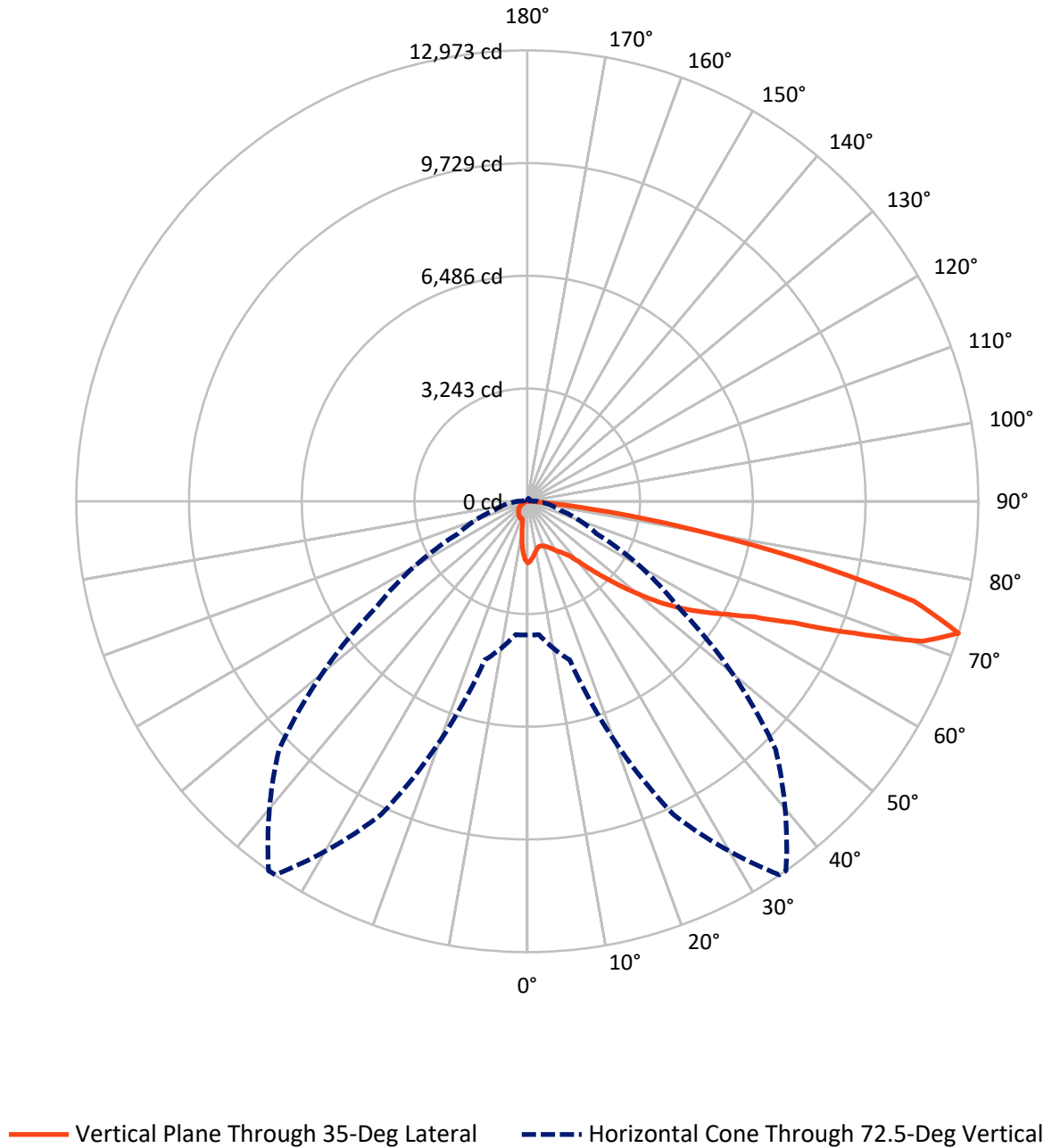
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1376.5	0.0	1376.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	10854.5	0.0	10854.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	12231.0	0.0	12231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	1.2
10°-20°	340.8	2.8
20°-30°	553.6	4.5
30°-40°	923.6	7.6
40°-50°	1747.5	14.3
50°-60°	2776.8	22.7
60°-70°	3435.1	28.1
70°-80°	2135.3	17.5
80°-90°	172.6	1.4
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°	12231.0	100.0
0°-180°	12231.0	100.0

Coefficient of Utilization



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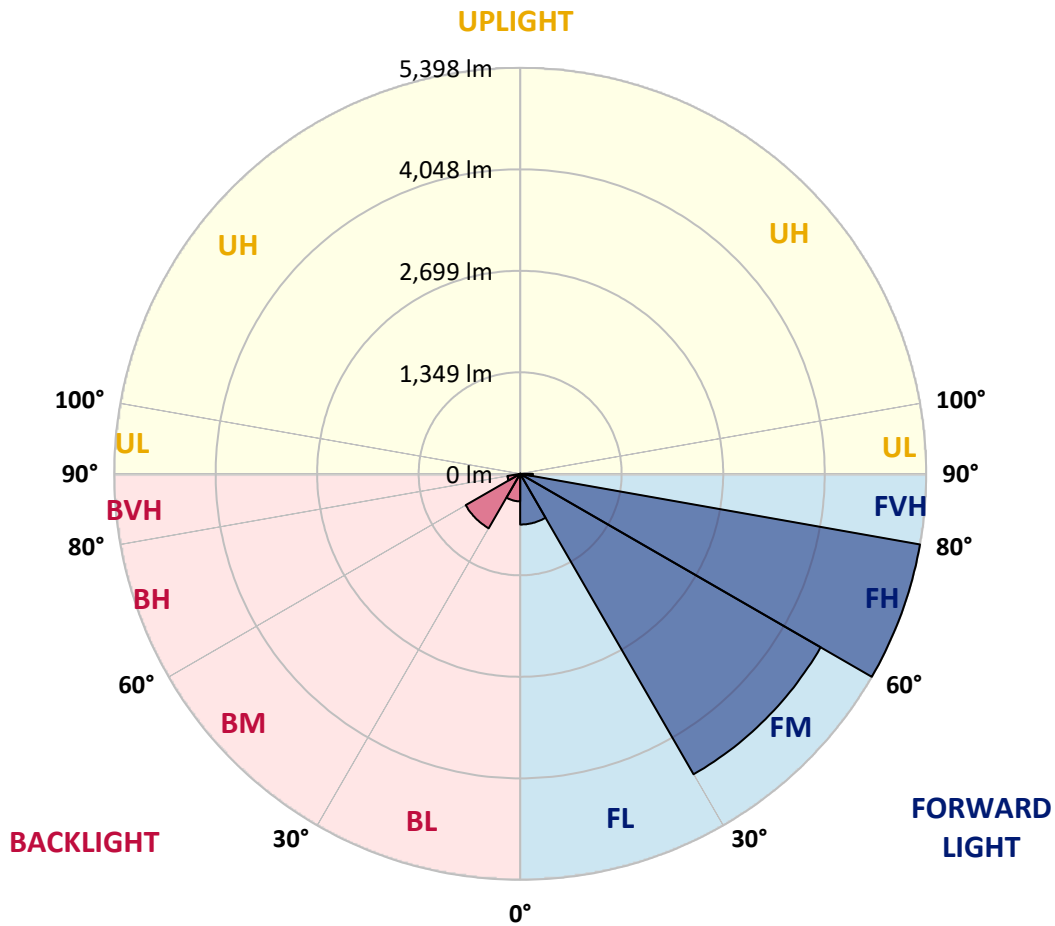
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	674.2	5.5			
FM (30°-60°)	4612.3	37.7			
FH (60°-80°)	5397.7	44.1			G3/7500
FVH (80°-90°)	170.2	1.4			G2/225
BL (0°-30°)	365.8	3.0	B1/500		
BM (30°-60°)	835.7	6.8	B1/1000		
BH (60°-80°)	172.7	1.4	B1/500		G1/500
BVH (80°-90°)	2.4	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°	34°	35°	45°	55°	65°	75°
0°	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7
2.5°	1693.8	1708.2	1710.8	1715.3	1715.3	1720.7	1729.7	1742.2	1762.8	1773.6
5°	1561.2	1571.9	1585.4	1596.1	1616.7	1619.4	1654.4	1688.4	1735.9	1771.8
7.5°	1427.6	1440.2	1458.1	1484.1	1511.0	1519.1	1571.9	1629.3	1704.6	1771.8
10°	1333.5	1334.4	1350.6	1376.6	1419.6	1429.4	1494.0	1575.5	1669.6	1761.0
12.5°	1280.7	1286.9	1294.1	1313.8	1355.1	1361.3	1430.3	1526.2	1634.7	1754.8
15°	1280.7	1285.1	1289.6	1299.5	1332.6	1338.0	1399.0	1494.9	1616.7	1757.4
17.5°	1294.1	1301.3	1297.7	1309.3	1344.3	1347.9	1401.7	1485.9	1615.8	1774.5
20°	1326.4	1331.8	1324.6	1331.8	1366.7	1373.9	1429.4	1502.9	1631.1	1804.0
22.5°	1377.5	1380.1	1363.1	1368.5	1404.3	1413.3	1477.8	1551.3	1667.8	1851.5
25°	1442.0	1447.4	1421.4	1427.6	1461.7	1472.5	1546.8	1623.9	1726.1	1917.0
27.5°	1516.4	1519.1	1496.7	1495.8	1539.7	1554.9	1630.2	1713.5	1804.0	1999.4
30°	1601.5	1609.6	1588.1	1584.5	1640.0	1652.6	1727.0	1823.8	1918.8	2123.1
32.5°	1668.7	1675.0	1662.4	1671.4	1727.9	1737.7	1844.4	1979.7	2098.9	2298.8
35°	1765.5	1769.1	1740.4	1756.6	1821.1	1846.2	2004.8	2198.4	2325.6	2519.2
37.5°	2115.9	2115.9	1994.0	1914.3	1976.1	1998.5	2224.4	2473.5	2605.3	2815.0
40°	2600.8	2592.7	2414.4	2251.3	2243.2	2287.1	2537.1	2820.3	2966.4	3169.9
42.5°	3117.9	3105.3	2862.5	2701.1	2674.3	2689.5	2898.3	3247.8	3396.6	3602.7
45°	3576.7	3573.1	3350.9	3134.0	3085.6	3134.0	3349.1	3747.9	3854.6	4071.4
47.5°	3961.2	3961.2	3799.0	3657.4	3632.3	3661.0	3959.4	4302.7	4292.8	4570.6
50°	4403.9	4400.3	4246.2	4185.3	4211.2	4251.6	4662.0	4887.0	4746.3	5060.8
52.5°	4714.0	4735.5	4682.6	4672.8	4805.4	4875.3	5375.4	5458.7	5152.2	5526.0
55°	4959.6	4984.7	5045.6	5114.6	5370.0	5461.4	6066.4	6000.9	5491.9	5929.3
57.5°	5307.3	5271.4	5365.5	5501.8	5914.9	6025.1	6735.8	6512.7	5765.2	6256.4
60°	5729.4	5734.8	5750.9	5923.0	6458.9	6600.5	7395.4	6996.6	5940.9	6457.1
62.5°	6236.7	6244.7	6277.9	6542.3	7189.3	7322.8	8098.1	7392.7	6021.6	6400.7
65°	6201.7	6235.8	6605.9	7510.1	8299.7	8431.4	8918.1	7670.6	5899.7	5884.4
67.5°	5649.6	5705.2	6324.5	8666.2	9973.8	10120.8	9909.3	7725.2	5373.6	4576.0
70°	4925.5	4945.2	5690.0	9705.8	11912.3	12061.0	10796.5	7123.9	4077.7	2552.4
72.5°	3846.5	3851.0	4724.8	9946.9	12964.4	12972.5	10100.2	5288.5	2193.0	980.4
75°	2747.7	2720.9	3164.5	8066.7	11405.9	11497.3	7572.0	2480.7	837.9	463.3
77.5°	1473.4	1502.9	1790.6	4783.9	7879.4	8035.3	4131.5	715.2	426.6	315.5
80°	455.3	480.4	734.0	2190.3	4463.1	4557.2	1531.6	318.2	297.5	224.9
82.5°	143.4	148.8	342.3	920.4	1852.4	1895.5	443.6	180.1	203.4	148.8
85°	41.2	42.1	152.4	343.2	458.0	466.9	124.6	69.9	116.5	92.3
87.5°	4.5	14.3	57.4	57.4	40.3	39.4	13.4	15.2	33.2	11.7
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°
1772.7	0°	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7
1780.7	2.5°	1776.3	1777.2	1765.5	1745.8	1724.3	1706.4	1684.0	1666.0	1653.5	1649.9
1796.9	5°	1788.8	1782.5	1749.4	1689.3	1617.6	1555.8	1486.8	1432.1	1396.3	1381.0
1813.9	7.5°	1807.6	1789.7	1717.1	1598.8	1461.7	1339.8	1216.1	1120.2	1059.3	1028.8
1830.0	10°	1823.8	1787.9	1663.3	1468.0	1258.3	1073.6	907.0	791.3	726.8	696.3
1848.9	12.5°	1839.0	1787.0	1593.4	1312.9	1028.8	803.0	648.0	590.6	572.7	566.4
1879.3	15°	1867.7	1789.7	1505.6	1135.5	800.3	606.7	550.3	549.4	553.0	551.2
1925.9	17.5°	1907.1	1792.4	1406.1	947.3	617.5	535.0	532.3	540.4	545.8	543.1
1984.2	20°	1958.2	1803.2	1300.4	760.9	530.5	517.1	523.4	530.5	535.0	530.5
2062.2	22.5°	2029.9	1822.0	1184.8	611.2	502.8	506.4	511.7	519.8	524.3	518.0
2161.6	25°	2117.7	1851.5	1071.0	531.4	489.3	493.8	501.9	510.8	516.2	509.9
2287.1	27.5°	2231.5	1899.0	966.1	513.5	475.9	478.6	490.2	503.7	510.8	502.8
2465.4	30°	2396.4	1977.0	875.6	521.6	467.8	461.5	477.7	496.5	504.6	497.4
2708.3	32.5°	2615.1	2087.2	820.0	534.1	464.2	441.8	457.1	481.3	494.7	490.2
3025.6	35°	2901.9	2254.8	798.5	548.5	461.5	421.2	432.0	458.0	481.3	485.7
3425.3	37.5°	3249.6	2487.8	804.8	554.7	453.5	404.2	409.6	432.0	462.4	476.8
3875.2	40°	3644.8	2759.4	840.6	548.5	444.5	389.8	390.7	407.8	434.7	456.2
4359.1	42.5°	4052.6	3076.7	907.0	525.2	436.4	377.3	374.6	386.3	404.2	419.4
4842.2	45°	4440.7	3402.9	972.4	492.9	426.6	364.8	358.5	363.0	366.5	372.8
5312.7	47.5°	4779.4	3632.3	953.6	463.3	413.1	350.4	339.7	337.9	327.1	326.2
5733.0	50°	5013.3	3682.5	846.9	433.8	393.4	334.3	317.3	306.5	287.7	278.7
6047.6	52.5°	5087.7	3484.4	691.9	404.2	361.2	312.8	288.6	271.5	248.2	240.2
6228.6	55°	4989.1	3096.4	553.0	368.3	316.4	284.1	257.2	234.8	216.0	206.1
6248.3	57.5°	4748.1	2602.6	437.3	326.2	268.9	251.8	224.9	202.5	186.4	176.6
6029.6	60°	4348.4	2066.6	345.9	276.0	229.4	216.9	189.1	174.8	160.4	148.8
5465.0	62.5°	3741.6	1475.1	271.5	218.7	191.8	177.4	161.3	150.6	133.5	117.4
4449.6	65°	2919.8	902.5	209.7	160.4	154.1	147.0	137.1	127.3	106.6	90.5
2902.8	67.5°	1841.7	427.5	149.7	121.0	121.9	118.3	113.8	105.8	90.5	76.2
1300.4	70°	811.1	207.0	98.6	92.3	90.5	90.5	94.1	91.4	77.1	63.6
451.7	72.5°	276.0	111.1	73.5	69.9	65.4	64.5	78.9	76.2	61.8	49.3
224.9	75°	144.3	74.4	53.8	50.2	39.4	47.5	62.7	59.1	43.9	32.3
148.8	77.5°	94.1	52.9	36.7	32.3	22.4	31.4	46.6	41.2	26.0	16.1
97.7	80°	59.1	35.0	21.5	15.2	10.8	17.0	25.1	17.9	9.9	3.6
57.4	82.5°	31.4	17.9	8.1	5.4	4.5	5.4	6.3	4.5	1.8	0.0
29.6	85°	12.5	6.3	2.7	1.8	0.9	0.0	1.8	0.9	0.0	0.0
5.4	87.5°	4.5	0.9	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>
1772.7
1656.2
1386.4
1033.3
697.2
564.6
550.3
542.2
529.7
517.1
509.0
502.8
496.5
490.2
485.7
480.4
463.3
425.7
376.4
325.3
279.6
239.3
206.1
174.8
146.1
114.7
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