

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: P940828

Luminaire Tested: **GALN-SB4A-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940828
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-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 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: 11836 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

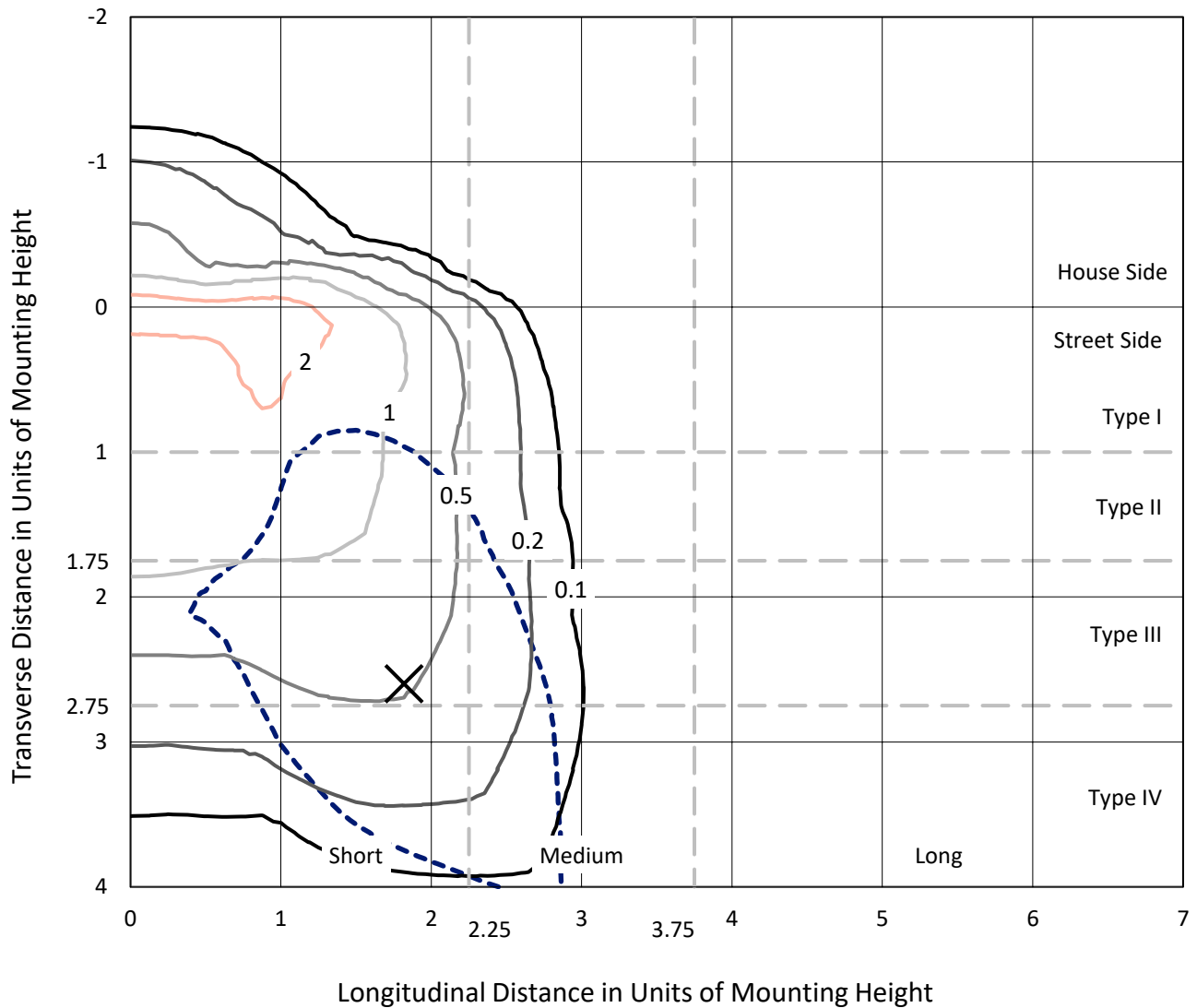
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

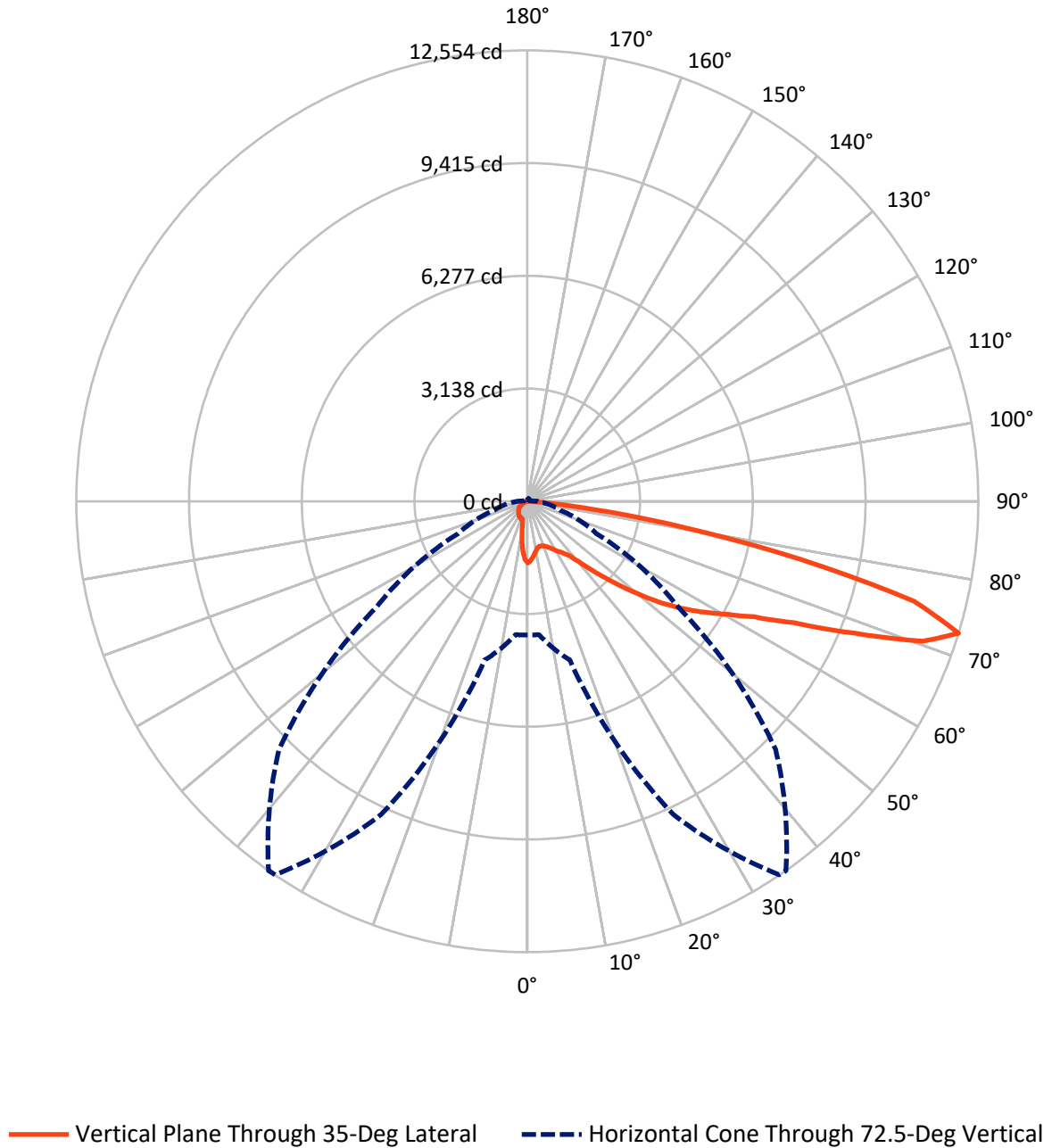
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	1332.1	0.0	1332.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	10503.9	0.0	10503.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	11836.0	0.0	11836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	1.2
10°-20°	329.8	2.8
20°-30°	535.7	4.5
30°-40°	893.8	7.6
40°-50°	1691.1	14.3
50°-60°	2687.1	22.7
60°-70°	3324.2	28.1
70°-80°	2066.3	17.5
80°-90°	167.0	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°	11836.0	100.0
0°-180°	11836.0	100.0

Coefficient of Utilization



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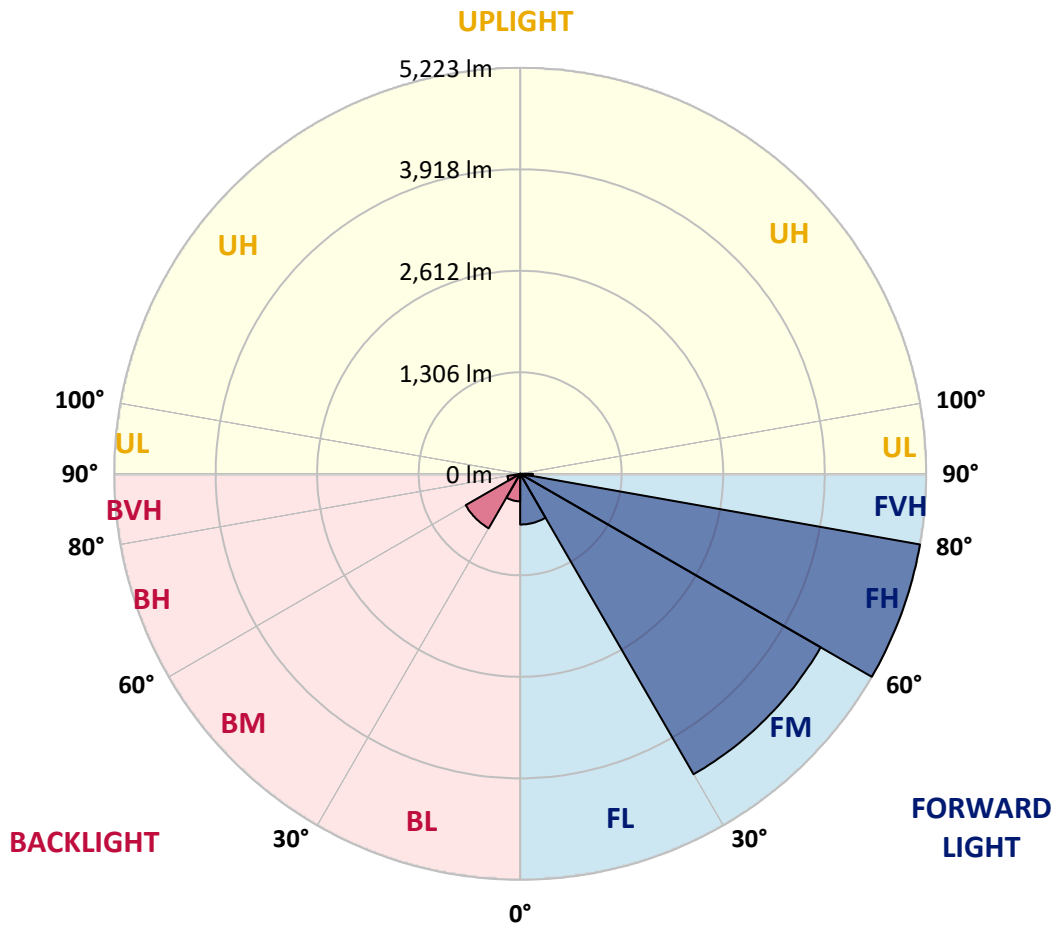
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	652.5	5.5			
FM (30°-60°)	4463.4	37.7			
FH (60°-80°)	5223.4	44.1			G3/7500
FVH (80°-90°)	164.7	1.4			G2/225
BL (0°-30°)	354.0	3.0	B1/500		
BM (30°-60°)	808.7	6.8	B1/1000		
BH (60°-80°)	167.2	1.4	B1/500		G1/500
BVH (80°-90°)	2.3	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°	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4
2.5°	1639.1	1653.0	1655.6	1659.9	1659.9	1665.1	1673.8	1685.9	1705.9	1716.3
5°	1510.8	1521.2	1534.2	1544.6	1564.5	1567.1	1601.0	1633.9	1679.9	1714.6
7.5°	1381.5	1393.7	1411.0	1436.2	1462.2	1470.0	1521.2	1576.7	1649.5	1714.6
10°	1290.5	1291.3	1307.0	1332.1	1373.7	1383.3	1445.7	1524.6	1615.7	1704.2
12.5°	1239.3	1245.4	1252.3	1271.4	1311.3	1317.4	1384.1	1476.9	1581.9	1698.1
15°	1239.3	1243.6	1248.0	1257.5	1289.6	1294.8	1353.8	1446.6	1564.5	1700.7
17.5°	1252.3	1259.3	1255.8	1267.1	1300.9	1304.4	1356.4	1437.9	1563.7	1717.2
20°	1283.5	1288.7	1281.8	1288.7	1322.6	1329.5	1383.3	1454.4	1578.4	1745.8
22.5°	1333.0	1335.6	1319.1	1324.3	1359.0	1367.7	1430.1	1501.2	1614.0	1791.8
25°	1395.4	1400.6	1375.5	1381.5	1414.5	1424.9	1496.9	1571.5	1670.3	1855.1
27.5°	1467.4	1470.0	1448.3	1447.5	1489.9	1504.7	1577.5	1658.2	1745.8	1934.8
30°	1549.8	1557.6	1536.8	1533.3	1587.1	1599.2	1671.2	1764.9	1856.8	2054.5
32.5°	1614.8	1620.9	1608.8	1617.4	1672.1	1681.6	1784.8	1915.8	2031.1	2224.5
35°	1708.5	1712.0	1684.2	1699.8	1762.3	1786.5	1940.1	2127.4	2250.5	2437.9
37.5°	2047.6	2047.6	1929.6	1852.5	1912.3	1934.0	2152.5	2393.6	2521.1	2724.1
40°	2516.8	2509.0	2336.4	2178.5	2170.7	2213.2	2455.2	2729.3	2870.6	3067.5
42.5°	3017.2	3005.0	2770.0	2613.9	2587.9	2602.6	2804.7	3142.9	3286.9	3486.4
45°	3461.2	3457.8	3242.7	3032.8	2986.0	3032.8	3240.9	3626.9	3730.1	3939.9
47.5°	3833.3	3833.3	3676.3	3539.3	3515.0	3542.7	3831.5	4163.7	4154.2	4423.0
50°	4261.7	4258.2	4109.1	4050.1	4075.2	4114.3	4511.5	4729.1	4593.0	4897.4
52.5°	4561.8	4582.6	4531.4	4521.9	4650.2	4717.9	5201.8	5282.5	4985.9	5347.5
55°	4799.4	4823.7	4882.7	4949.4	5196.6	5285.1	5870.5	5807.1	5314.5	5737.8
57.5°	5135.9	5101.2	5192.3	5324.1	5723.9	5830.6	6518.3	6302.4	5579.1	6054.3
60°	5544.4	5549.6	5565.2	5731.7	6250.3	6387.3	7156.6	6770.7	5749.0	6248.6
62.5°	6035.2	6043.0	6075.1	6331.0	6957.1	7086.4	7836.5	7154.0	5827.1	6193.9
65°	6001.4	6034.4	6392.5	7267.6	8031.7	8159.1	8630.1	7422.8	5709.1	5694.4
67.5°	5467.2	5521.0	6120.2	8386.4	9651.7	9793.9	9589.3	7475.8	5200.1	4428.2
70°	4766.4	4785.5	5506.2	9392.4	11527.6	11671.5	10447.8	6893.8	3946.0	2469.9
72.5°	3722.3	3726.6	4572.2	9625.7	12545.7	12553.5	9774.0	5117.7	2122.2	948.8
75°	2659.0	2633.0	3062.3	7806.2	11037.6	11126.0	7327.4	2400.6	810.9	448.4
77.5°	1425.8	1454.4	1732.8	4629.4	7624.9	7775.8	3998.1	692.1	412.8	305.3
80°	440.6	464.8	710.3	2119.6	4318.9	4410.0	1482.1	307.9	287.9	217.7
82.5°	138.8	144.0	331.3	890.7	1792.6	1834.2	429.3	174.3	196.9	144.0
85°	39.9	40.8	147.4	332.2	443.2	451.8	120.5	67.6	112.7	89.3
87.5°	4.3	13.9	55.5	55.5	39.0	38.2	13.0	14.7	32.1	11.3
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°
1715.4	0°	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4
1723.2	2.5°	1718.9	1719.8	1708.5	1689.4	1668.6	1651.3	1629.6	1612.2	1600.1	1596.6
1738.8	5°	1731.0	1725.0	1692.9	1634.8	1565.4	1505.6	1438.8	1385.9	1351.2	1336.4
1755.3	7.5°	1749.3	1731.9	1661.7	1547.2	1414.5	1296.5	1176.9	1084.1	1025.1	995.6
1770.9	10°	1764.9	1730.2	1609.6	1420.6	1217.6	1039.0	877.7	765.8	703.3	673.9
1789.2	12.5°	1779.6	1729.3	1542.0	1270.5	995.6	777.1	627.0	571.5	554.2	548.1
1818.6	15°	1807.4	1731.9	1457.0	1098.8	774.5	587.1	532.5	531.6	535.1	533.4
1863.7	17.5°	1845.5	1734.5	1360.7	916.7	597.5	517.8	515.2	523.0	528.2	525.6
1920.1	20°	1895.0	1744.9	1258.4	736.3	513.4	500.4	506.5	513.4	517.8	513.4
1995.6	22.5°	1964.3	1763.1	1146.5	591.5	486.5	490.0	495.2	503.0	507.3	501.3
2091.8	25°	2049.3	1791.8	1036.4	514.3	473.5	477.9	485.7	494.3	499.5	493.5
2213.2	27.5°	2159.5	1837.7	934.9	496.9	460.5	463.1	474.4	487.4	494.3	486.5
2385.8	30°	2319.0	1913.2	847.3	504.7	452.7	446.6	462.2	480.5	488.3	481.3
2620.8	32.5°	2530.7	2019.8	793.5	516.9	449.2	427.6	442.3	465.7	478.7	474.4
2927.9	35°	2808.2	2182.0	772.7	530.8	446.6	407.6	418.0	443.2	465.7	470.1
3314.7	37.5°	3144.7	2407.5	778.8	536.8	438.8	391.1	396.3	418.0	447.5	461.4
3750.0	40°	3527.1	2670.3	813.5	530.8	430.2	377.3	378.1	394.6	420.6	441.4
4218.3	42.5°	3921.7	2977.3	877.7	508.2	422.4	365.1	362.5	373.8	391.1	405.9
4685.8	45°	4297.3	3293.0	941.0	477.0	412.8	353.0	346.9	351.2	354.7	360.8
5141.1	47.5°	4625.1	3515.0	922.8	448.4	399.8	339.1	328.7	327.0	316.5	315.7
5547.8	50°	4851.4	3563.6	819.6	419.8	380.7	323.5	307.0	296.6	278.4	269.7
5852.2	52.5°	4923.4	3371.9	669.5	391.1	349.5	302.7	279.3	262.8	240.2	232.4
6027.4	55°	4828.0	2996.4	535.1	356.4	306.1	274.9	248.9	227.2	209.0	199.5
6046.5	57.5°	4594.7	2518.5	423.2	315.7	260.2	243.7	217.7	196.0	180.4	170.8
5834.9	60°	4207.9	1999.9	334.8	267.1	222.0	209.9	183.0	169.1	155.2	144.0
5288.5	62.5°	3620.8	1427.5	262.8	211.6	185.6	171.7	156.1	145.7	129.2	113.6
4305.9	65°	2825.5	873.3	202.9	155.2	149.2	142.2	132.7	123.2	103.2	87.6
2809.0	67.5°	1782.2	413.7	144.8	117.1	117.9	114.5	110.1	102.3	87.6	73.7
1258.4	70°	784.9	200.3	95.4	89.3	87.6	87.6	91.1	88.5	74.6	61.6
437.1	72.5°	267.1	107.5	71.1	67.6	63.3	62.4	76.3	73.7	59.8	47.7
217.7	75°	139.6	72.0	52.0	48.6	38.2	46.0	60.7	57.2	42.5	31.2
144.0	77.5°	91.1	51.2	35.6	31.2	21.7	30.4	45.1	39.9	25.2	15.6
94.5	80°	57.2	33.8	20.8	14.7	10.4	16.5	24.3	17.3	9.5	3.5
55.5	82.5°	30.4	17.3	7.8	5.2	4.3	5.2	6.1	4.3	1.7	0.0
28.6	85°	12.1	6.1	2.6	1.7	0.9	0.0	1.7	0.9	0.0	0.0
5.2	87.5°	4.3	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>
1715.4
1602.7
1341.6
999.9
674.7
546.4
532.5
524.7
512.5
500.4
492.6
486.5
480.5
474.4
470.1
464.8
448.4
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364.2
314.8
270.6
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