

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: P940358

Luminaire Tested: **GALN-SB3B-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940358
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-SB3B-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 450mA 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: 12236 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

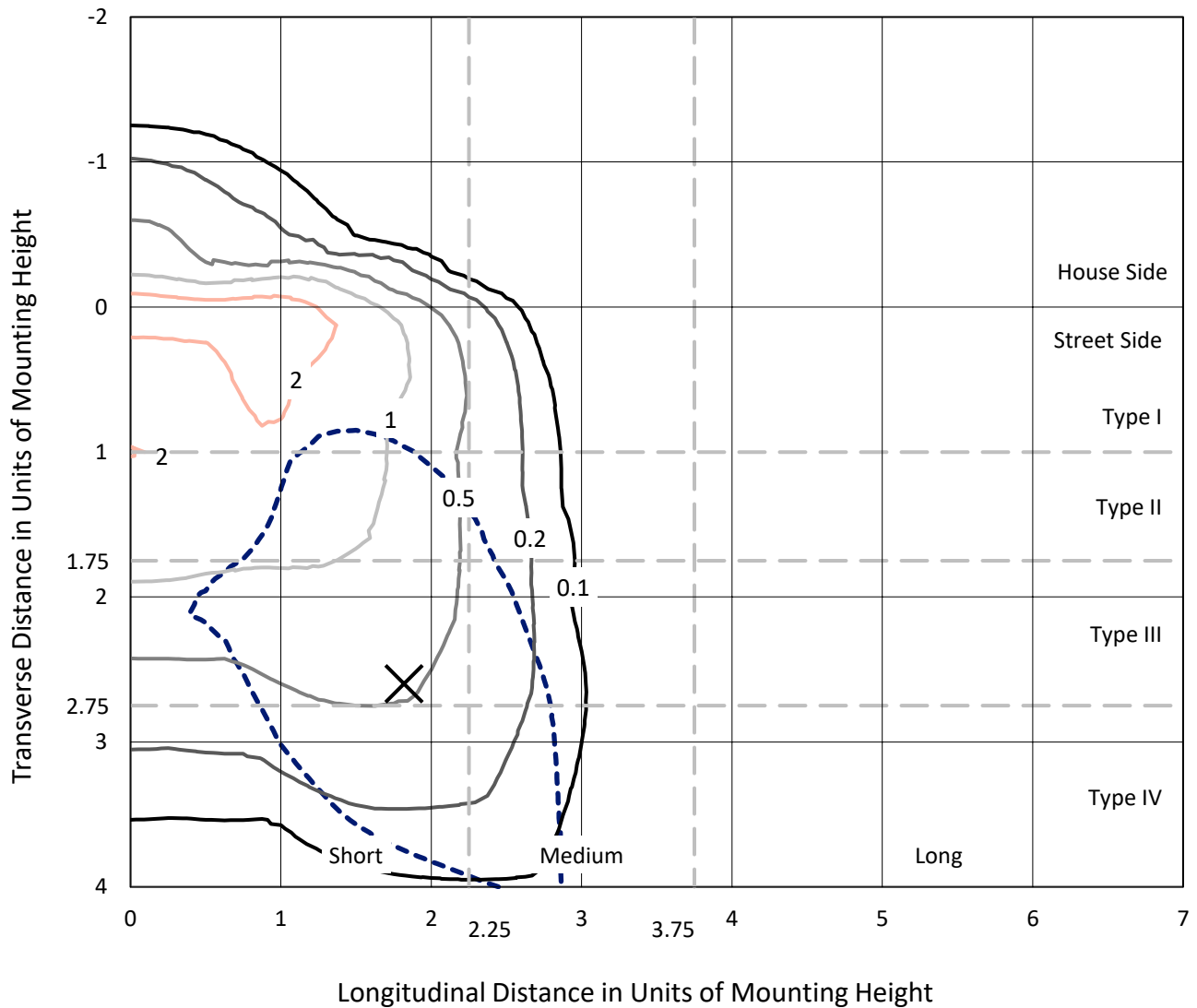
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

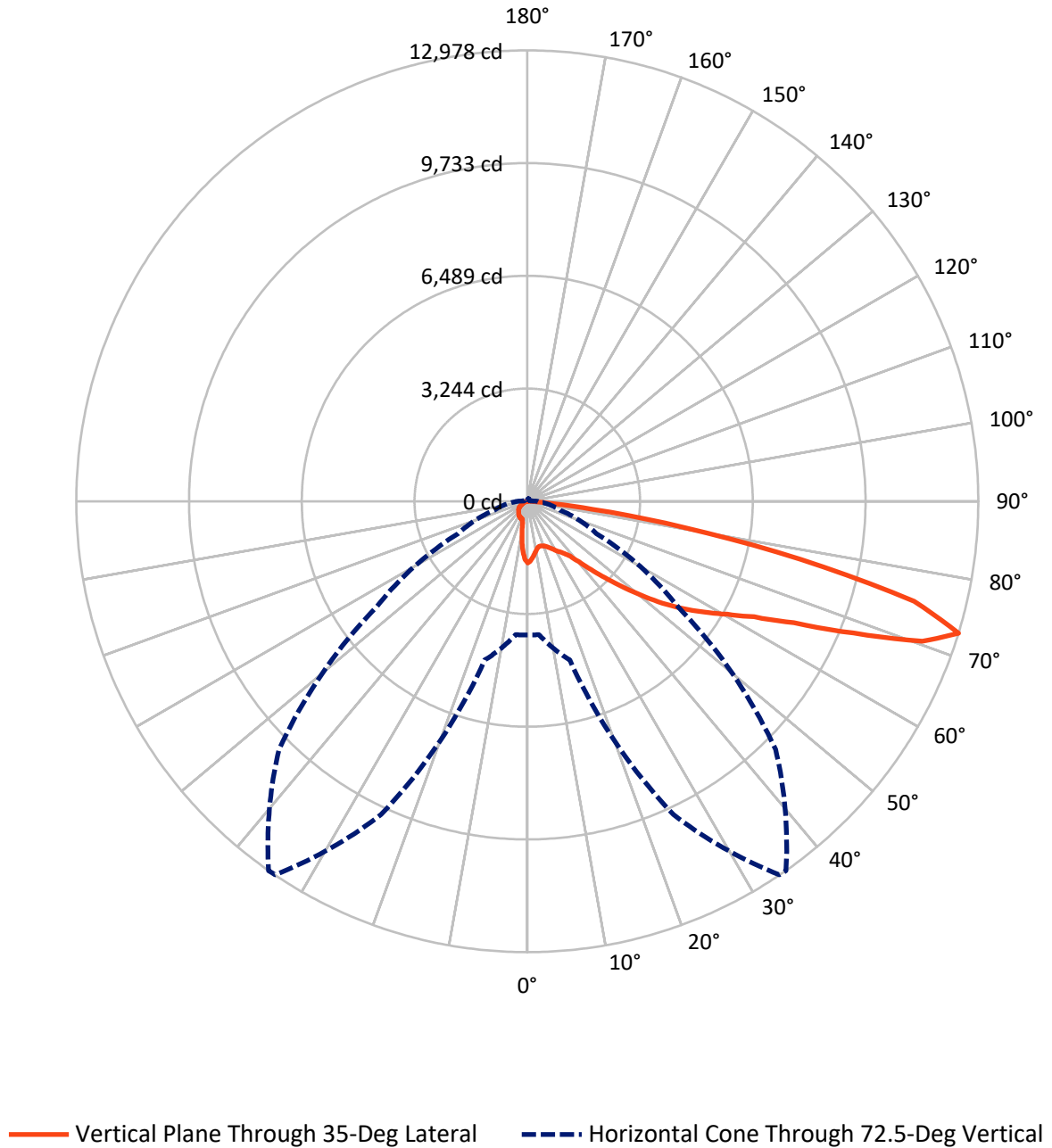
✕ Max cd
 - - - 1/2 Max cd



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	1377.1	0.0	1377.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	10858.9	0.0	10858.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	12236.0	0.0	12236.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	1.2
10°-20°	340.9	2.8
20°-30°	553.8	4.5
30°-40°	924.0	7.6
40°-50°	1748.3	14.3
50°-60°	2778.0	22.7
60°-70°	3436.5	28.1
70°-80°	2136.2	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°	12236.0	100.0
0°-180°	12236.0	100.0



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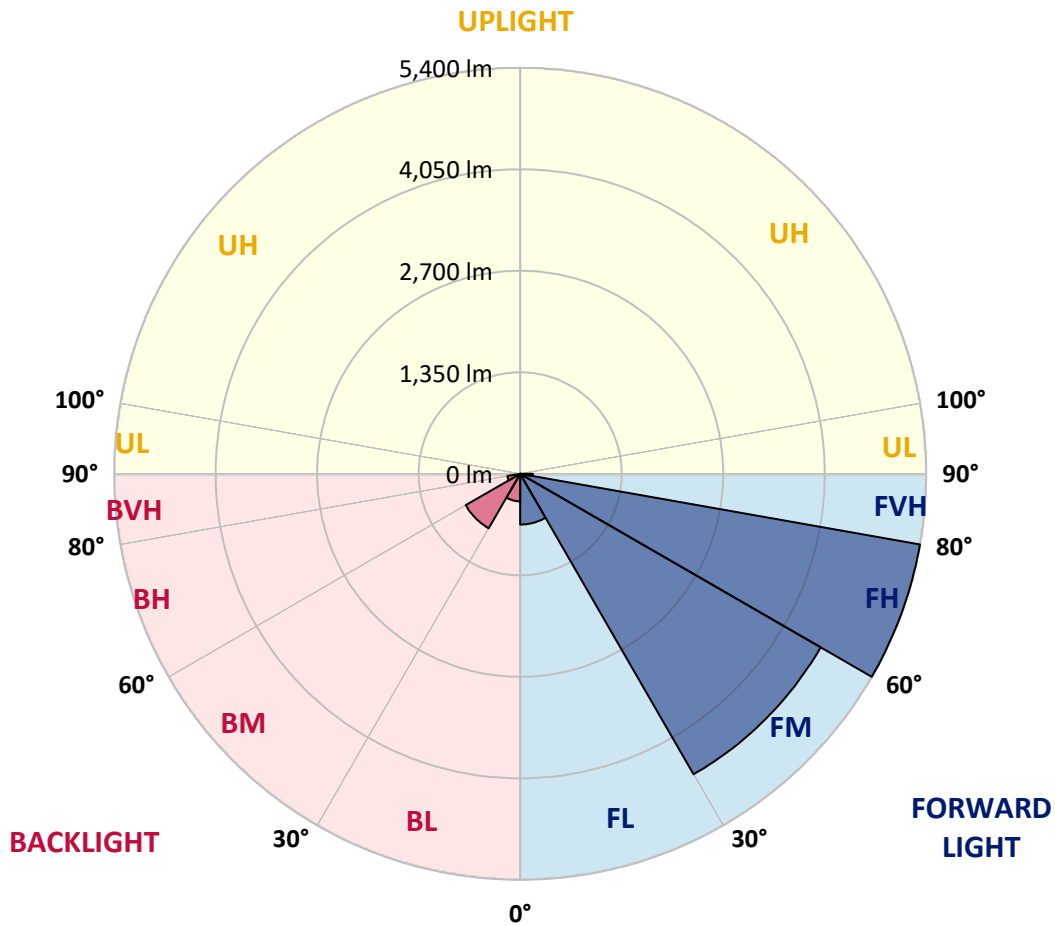
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	674.5	5.5			
FM (30°-60°)	4614.2	37.7			
FH (60°-80°)	5399.9	44.1			G3/7500
FVH (80°-90°)	170.3	1.4			G2/225
BL (0°-30°)	365.9	3.0	B1/500		
BM (30°-60°)	836.0	6.8	B1/1000		
BH (60°-80°)	172.8	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°	1773.4	1773.4	1773.4	1773.4	1773.4	1773.4	1773.4	1773.4	1773.4	1773.4
2.5°	1694.5	1708.9	1711.5	1716.0	1716.0	1721.4	1730.4	1742.9	1763.5	1774.3
5°	1561.8	1572.6	1586.0	1596.8	1617.4	1620.1	1655.1	1689.1	1736.6	1772.5
7.5°	1428.2	1440.8	1458.7	1484.7	1511.6	1519.7	1572.6	1630.0	1705.3	1772.5
10°	1334.1	1335.0	1351.1	1377.1	1420.2	1430.0	1494.6	1576.2	1670.3	1761.8
12.5°	1281.2	1287.5	1294.6	1314.4	1355.6	1361.9	1430.9	1526.9	1635.3	1755.5
15°	1281.2	1285.7	1290.2	1300.0	1333.2	1338.6	1399.5	1495.5	1617.4	1758.2
17.5°	1294.6	1301.8	1298.2	1309.9	1344.8	1348.4	1402.2	1486.5	1616.5	1775.2
20°	1326.9	1332.3	1325.1	1332.3	1367.3	1374.4	1430.0	1503.5	1631.7	1804.8
22.5°	1378.0	1380.7	1363.7	1369.1	1404.9	1413.9	1478.4	1552.0	1668.5	1852.3
25°	1442.6	1448.0	1422.0	1428.2	1462.3	1473.1	1547.5	1624.6	1726.8	1917.8
27.5°	1517.0	1519.7	1497.3	1496.4	1540.3	1555.5	1630.9	1714.2	1804.8	2000.2
30°	1602.2	1610.2	1588.7	1585.1	1640.7	1653.3	1727.7	1824.5	1919.5	2124.0
32.5°	1669.4	1675.7	1663.1	1672.1	1728.6	1738.4	1845.1	1980.5	2099.8	2299.7
35°	1766.2	1769.8	1741.1	1757.3	1821.8	1846.9	2005.6	2199.3	2326.6	2520.2
37.5°	2116.8	2116.8	1994.9	1915.1	1976.9	1999.3	2225.3	2474.5	2606.3	2816.1
40°	2601.8	2593.8	2415.3	2252.2	2244.1	2288.0	2538.2	2821.5	2967.6	3171.2
42.5°	3119.2	3106.6	2863.6	2702.2	2675.4	2690.6	2899.5	3249.2	3398.0	3604.2
45°	3578.2	3574.6	3352.3	3135.3	3086.9	3135.3	3350.5	3749.4	3856.1	4073.1
47.5°	3962.8	3962.8	3800.5	3658.9	3633.8	3662.5	3961.0	4304.4	4294.5	4572.5
50°	4405.7	4402.1	4247.9	4187.0	4213.0	4253.3	4663.9	4889.0	4748.2	5062.9
52.5°	4715.9	4737.5	4684.6	4674.7	4807.4	4877.3	5377.6	5461.0	5154.4	5528.2
55°	4961.6	4986.7	5047.7	5116.7	5372.2	5463.7	6068.9	6003.4	5494.2	5931.7
57.5°	5309.5	5273.6	5367.7	5504.0	5917.3	6027.6	6738.6	6515.3	5767.6	6258.9
60°	5731.7	5737.1	5753.3	5925.4	6461.5	6603.2	7398.5	6999.5	5943.3	6459.8
62.5°	6239.2	6247.3	6280.4	6544.9	7192.2	7325.8	8101.4	7395.8	6024.0	6403.3
65°	6204.2	6238.3	6608.6	7513.2	8303.1	8434.9	8921.7	7673.7	5902.1	5886.8
67.5°	5651.9	5707.5	6327.1	8669.8	9977.9	10124.9	9913.3	7728.4	5375.8	4577.9
70°	4927.5	4947.2	5692.3	9709.8	11917.1	12066.0	10800.9	7126.8	4079.4	2553.4
72.5°	3848.1	3852.5	4726.7	9951.0	12969.7	12977.8	10104.3	5290.6	2193.9	980.8
75°	2748.9	2722.0	3165.8	8070.0	11410.6	11502.0	7575.1	2481.7	838.3	463.5
77.5°	1474.0	1503.5	1791.3	4785.9	7882.6	8038.6	4133.2	715.5	426.8	315.6
80°	455.5	480.6	734.3	2191.2	4464.9	4559.0	1532.2	318.3	297.7	225.0
82.5°	143.5	148.8	342.5	920.8	1853.2	1896.2	443.8	180.2	203.5	148.8
85°	41.2	42.1	152.4	343.4	458.1	467.1	124.6	69.9	116.6	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°
1773.4	0°	1773.4	1773.4	1773.4	1773.4	1773.4	1773.4	1773.4	1773.4	1773.4	1773.4
1781.5	2.5°	1777.0	1777.9	1766.2	1746.5	1725.0	1707.1	1684.6	1666.7	1654.2	1650.6
1797.6	5°	1789.5	1783.3	1750.1	1690.0	1618.3	1556.4	1487.4	1432.7	1396.8	1381.6
1814.6	7.5°	1808.4	1790.4	1717.8	1599.5	1462.3	1340.4	1216.6	1120.7	1059.7	1029.3
1830.8	10°	1824.5	1788.6	1664.0	1468.6	1258.8	1074.1	907.3	791.7	727.1	696.6
1849.6	12.5°	1839.8	1787.8	1594.1	1313.5	1029.3	803.3	648.2	590.8	572.9	566.6
1880.1	15°	1868.4	1790.4	1506.2	1135.9	800.6	607.0	550.5	549.6	553.2	551.4
1926.7	17.5°	1907.9	1793.1	1406.7	947.7	617.7	535.2	532.6	540.6	546.0	543.3
1985.0	20°	1959.0	1803.9	1300.9	761.2	530.8	517.3	523.6	530.8	535.2	530.8
2063.0	22.5°	2030.7	1822.7	1185.3	611.5	503.0	506.6	511.9	520.0	524.5	518.2
2162.5	25°	2118.6	1852.3	1071.4	531.7	489.5	494.0	502.1	511.0	516.4	510.1
2288.0	27.5°	2232.4	1899.8	966.5	513.7	476.1	478.8	490.4	503.9	511.0	503.0
2466.5	30°	2397.4	1977.8	875.9	521.8	468.0	461.7	477.9	496.7	504.8	497.6
2709.4	32.5°	2616.2	2088.1	820.4	534.4	464.4	442.0	457.2	481.5	494.9	490.4
3026.8	35°	2903.1	2255.8	798.8	548.7	461.7	421.4	432.1	458.1	481.5	485.9
3426.7	37.5°	3250.9	2488.9	805.1	555.0	453.7	404.4	409.7	432.1	462.6	477.0
3876.7	40°	3646.3	2760.5	841.0	548.7	444.7	390.0	390.9	407.9	434.8	456.4
4360.9	42.5°	4054.3	3077.9	907.3	525.4	436.6	377.5	374.8	386.4	404.4	419.6
4844.1	45°	4442.5	3404.3	972.8	493.1	426.8	364.9	358.6	363.1	366.7	373.0
5314.8	47.5°	4781.4	3633.8	953.9	463.5	413.3	350.6	339.8	338.0	327.2	326.3
5735.3	50°	5015.4	3684.0	847.3	433.9	393.6	334.4	317.4	306.6	287.8	278.8
6050.0	52.5°	5089.8	3485.8	692.1	404.4	361.3	312.9	288.7	271.7	248.3	240.3
6231.1	55°	4991.2	3097.6	553.2	368.5	316.5	284.2	257.3	234.9	216.1	206.2
6250.9	57.5°	4750.0	2603.6	437.5	326.3	269.0	251.9	225.0	202.6	186.5	176.6
6032.1	60°	4350.1	2067.5	346.1	276.1	229.5	217.0	189.2	174.8	160.5	148.8
5467.3	62.5°	3743.2	1475.7	271.7	218.8	191.9	177.5	161.4	150.6	133.6	117.5
4451.4	65°	2921.0	902.8	209.8	160.5	154.2	147.0	137.2	127.3	106.7	90.6
2904.0	67.5°	1842.4	427.7	149.7	121.0	121.9	118.3	113.9	105.8	90.6	76.2
1300.9	70°	811.4	207.1	98.6	92.3	90.6	90.6	94.1	91.4	77.1	63.7
451.9	72.5°	276.1	111.2	73.5	69.9	65.4	64.6	78.9	76.2	61.9	49.3
225.0	75°	144.3	74.4	53.8	50.2	39.4	47.5	62.8	59.2	43.9	32.3
148.8	77.5°	94.1	52.9	36.8	32.3	22.4	31.4	46.6	41.2	26.0	16.1
97.7	80°	59.2	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°	12.6	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>
1773.4
1656.9
1387.0
1033.7
697.5
564.8
550.5
542.4
529.9
517.3
509.2
503.0
496.7
490.4
485.9
480.6
463.5
425.9
376.6
325.5
279.7
239.4
206.2
174.8
146.1
114.8
87.9
74.4
61.0
46.6
29.6
14.3
2.7
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