

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: P947180

Luminaire Tested: **GALN-SB2C-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947180
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-SB2C-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 615mA 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: 10701 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

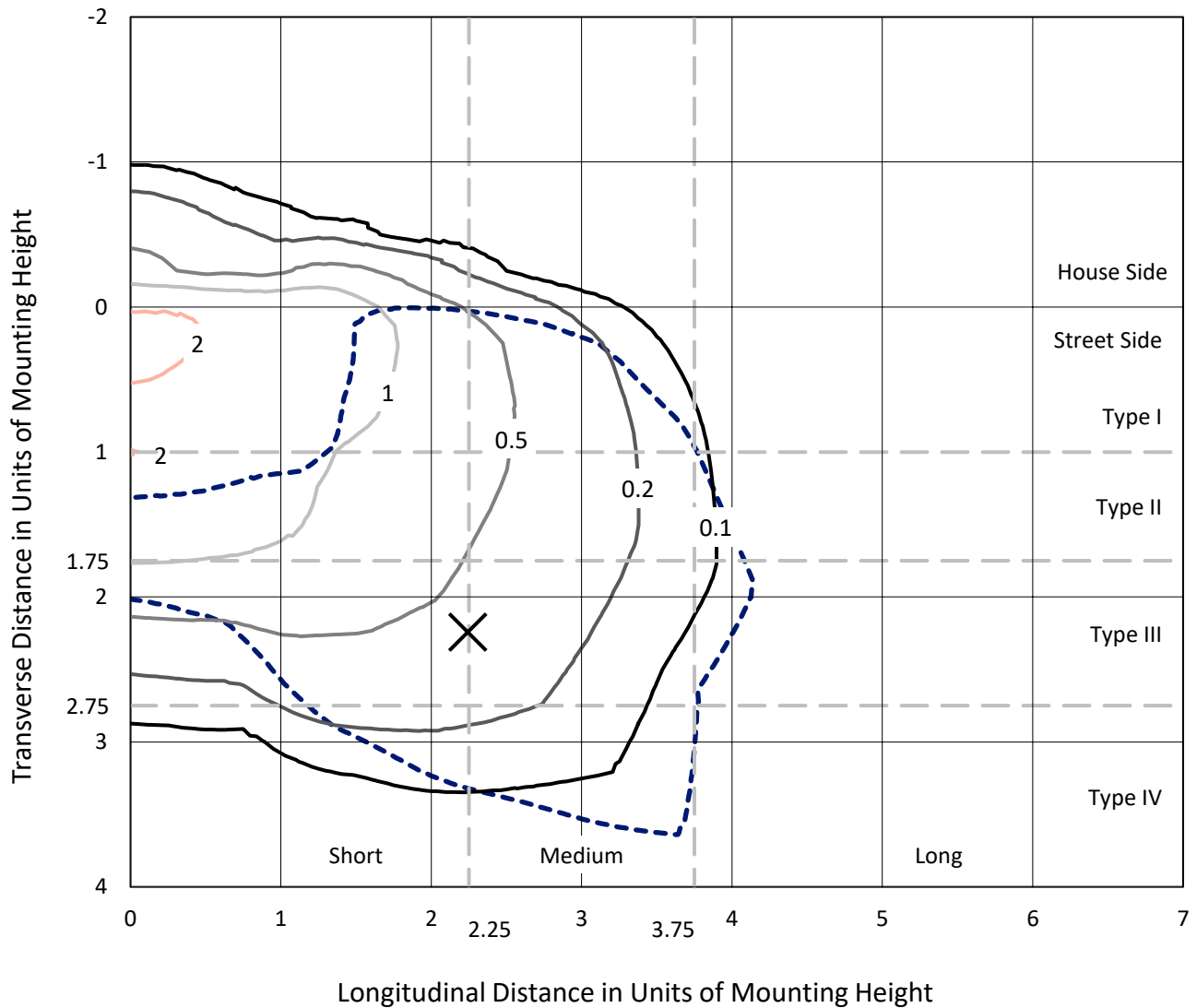
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

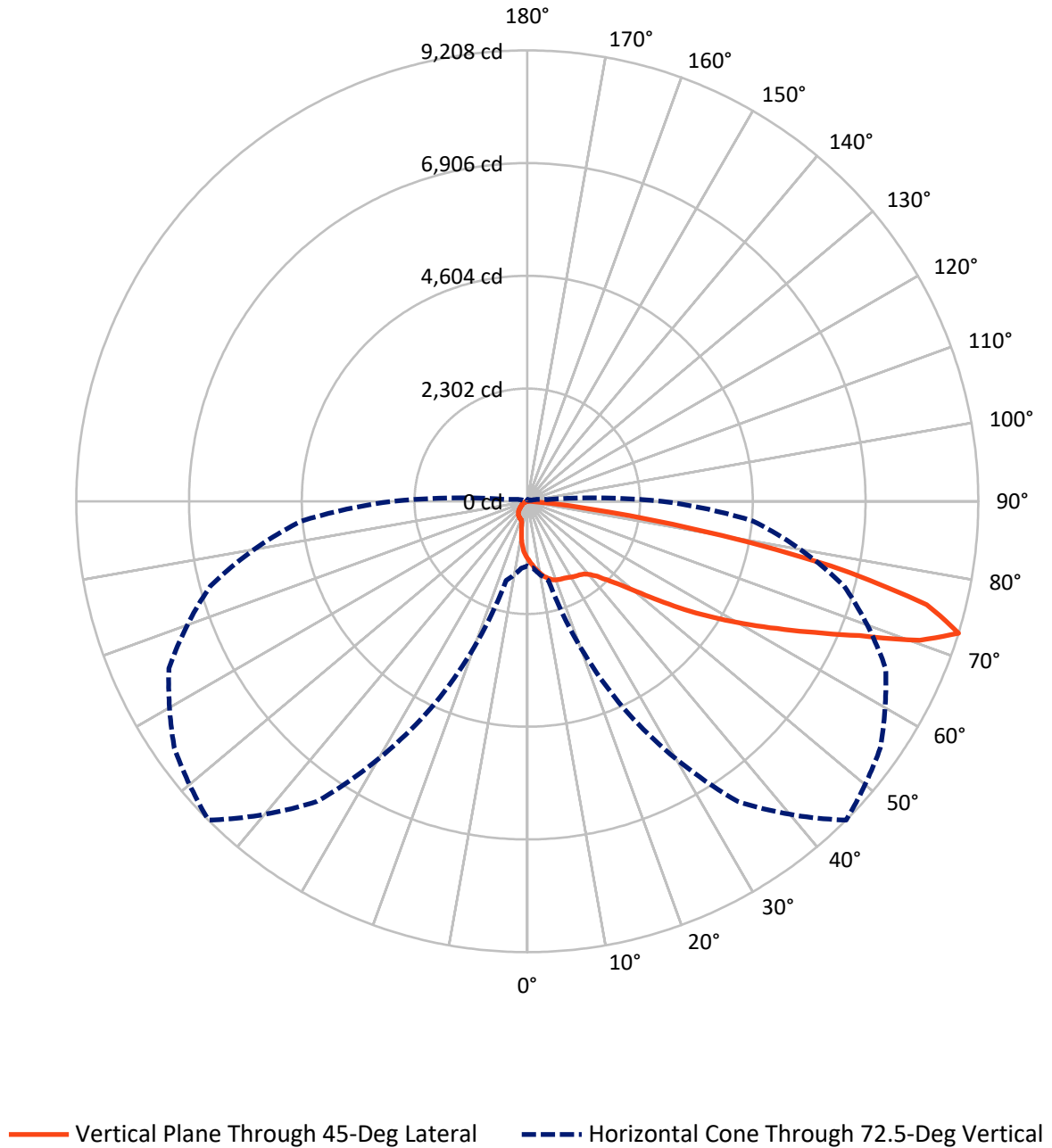
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1124.4	0.0	1124.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	9576.6	0.0	9576.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	10701.0	0.0	10701.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	1.0
10°-20°	322.8	3.0
20°-30°	530.1	5.0
30°-40°	751.8	7.0
40°-50°	1242.7	11.6
50°-60°	2232.3	20.9
60°-70°	3099.7	29.0
70°-80°	2248.5	21.0
80°-90°	162.6	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°	10701.0	100.0
0°-180°	10701.0	100.0

Coefficient of Utilization



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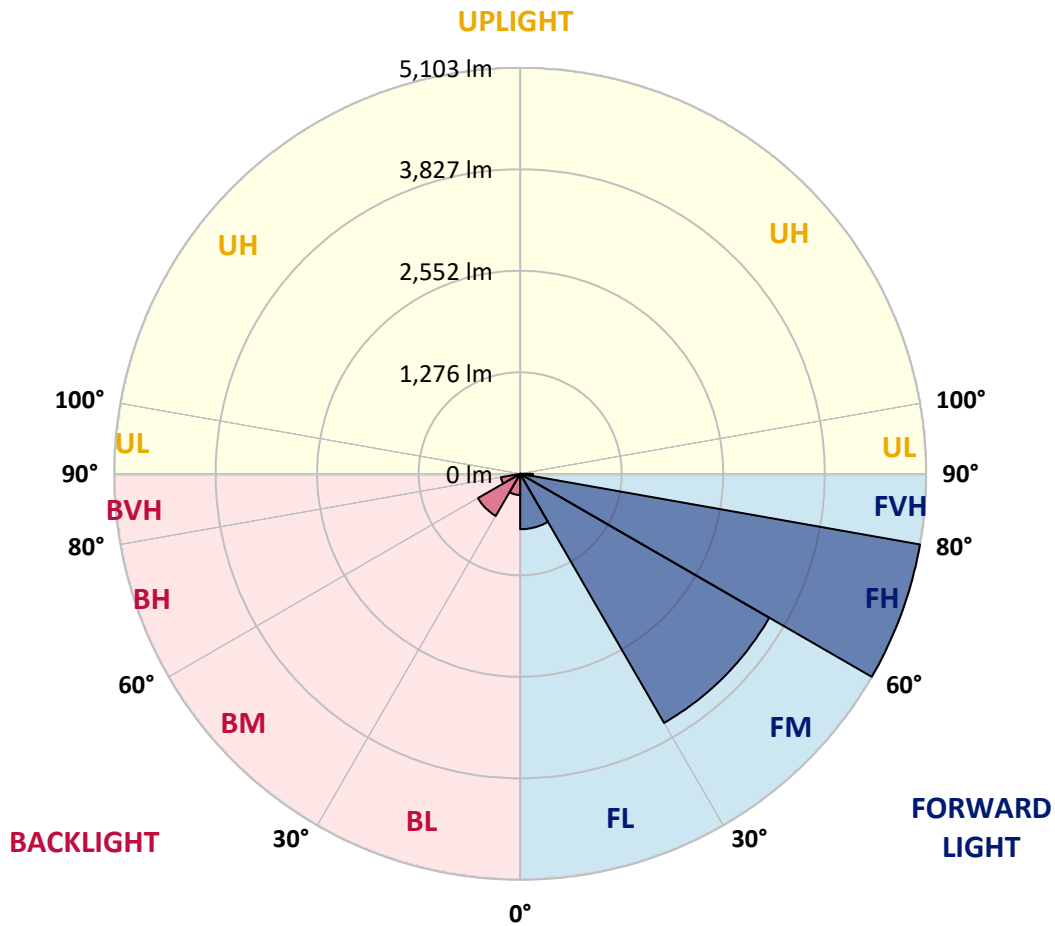
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.1	6.5			
FM (30°-60°)	3615.4	33.8			
FH (60°-80°)	5103.0	47.7			G3/7500
FVH (80°-90°)	161.2	1.5			G2/225
BL (0°-30°)	266.3	2.5	B1/500		
BM (30°-60°)	611.5	5.7	B1/1000		
BH (60°-80°)	245.2	2.3	B1/500		G1/500
BVH (80°-90°)	1.4	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°	35°	45°	46°	55°	65°	75°
0°	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3
2.5°	1280.4	1282.6	1281.1	1272.4	1257.8	1249.7	1245.4	1230.8	1221.3	1204.5
5°	1398.0	1406.8	1401.7	1384.1	1356.4	1336.7	1330.8	1300.9	1273.8	1242.4
7.5°	1522.9	1527.3	1517.8	1495.2	1457.9	1424.3	1419.2	1377.6	1334.5	1286.3
10°	1631.0	1636.1	1621.5	1588.7	1546.3	1504.7	1497.4	1451.3	1400.2	1341.0
12.5°	1721.6	1726.7	1707.7	1668.3	1621.5	1578.4	1571.1	1522.9	1466.7	1400.9
15°	1790.2	1799.7	1774.2	1731.8	1681.4	1638.3	1634.7	1587.2	1532.4	1459.4
17.5°	1830.4	1839.9	1815.8	1764.7	1721.6	1685.1	1680.7	1641.2	1590.1	1520.0
20°	1837.0	1845.8	1820.2	1775.6	1739.9	1710.6	1708.4	1680.0	1642.7	1575.5
22.5°	1817.3	1828.2	1804.9	1769.1	1744.2	1728.9	1726.0	1709.9	1688.7	1631.7
25°	1796.8	1805.6	1788.1	1756.6	1743.5	1742.0	1744.2	1741.3	1736.9	1688.7
27.5°	1795.4	1804.9	1785.1	1755.2	1747.9	1763.2	1765.4	1779.3	1782.9	1740.6
30°	1807.8	1814.4	1795.4	1764.0	1760.3	1795.4	1796.1	1820.9	1826.8	1784.4
32.5°	1834.8	1842.1	1823.1	1777.1	1772.0	1820.9	1823.1	1856.0	1865.5	1831.2
35°	1898.4	1907.1	1885.2	1813.6	1795.4	1845.0	1851.6	1890.3	1909.3	1880.8
37.5°	2056.9	2031.3	2001.3	1887.4	1848.7	1883.0	1894.0	1939.3	1972.9	1940.0
40°	2450.5	2370.2	2276.7	2013.0	1942.2	1964.1	1972.9	2018.1	2064.2	2032.0
42.5°	3041.5	2946.5	2796.0	2302.3	2083.1	2094.1	2100.7	2140.1	2205.1	2179.6
45°	3568.1	3533.8	3380.4	2796.0	2346.8	2292.8	2300.8	2321.3	2416.9	2407.5
47.5°	3972.7	3953.0	3834.7	3362.8	2792.4	2536.0	2558.6	2568.1	2706.2	2739.8
50°	4283.9	4276.6	4170.7	3866.8	3374.5	2894.6	2902.7	2882.2	3088.9	3172.2
52.5°	4577.5	4602.3	4524.2	4335.0	3996.1	3364.3	3362.8	3266.4	3545.4	3671.1
55°	4842.7	4851.4	4859.5	4812.7	4621.3	3899.0	3885.1	3727.3	4075.0	4205.0
57.5°	5091.7	5095.4	5167.0	5262.6	5272.1	4473.1	4447.5	4258.3	4653.5	4746.2
60°	5259.0	5275.8	5427.0	5692.9	5809.0	5065.4	5051.6	4858.7	5242.2	5285.3
62.5°	5018.0	5120.2	5501.5	6028.9	6315.9	5722.1	5715.5	5534.4	5861.6	5826.5
65°	4061.8	4235.0	4905.5	6256.0	6813.3	6455.4	6464.9	6272.1	6497.8	6383.8
67.5°	2841.3	3023.9	3817.2	6274.3	7369.2	7316.6	7371.4	7069.0	7173.4	6917.8
70°	1964.8	2059.0	2575.4	5881.3	7802.3	8502.8	8501.3	8047.7	7845.4	7161.0
72.5°	1321.3	1370.3	1672.7	4665.9	7483.8	9207.6	9165.3	8795.7	8071.8	6697.2
75°	557.3	593.1	774.2	2622.2	5920.8	8423.9	8309.2	7773.1	7172.0	5273.6
77.5°	176.8	192.1	305.3	938.6	3261.3	6332.0	6210.7	4854.3	4806.9	2645.6
80°	84.0	97.9	171.6	376.9	1283.3	3443.9	3427.1	2202.2	2067.8	714.3
82.5°	36.5	43.1	95.0	201.6	574.1	1228.6	1253.4	749.4	620.1	271.0
85°	11.7	15.3	43.8	92.8	242.5	305.3	301.7	178.2	249.8	147.5
87.5°	0.0	0.0	14.6	21.2	24.8	17.5	19.7	15.3	69.4	40.9
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°
1172.3	0°	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3
1186.9	2.5°	1178.2	1166.5	1146.0	1127.0	1110.2	1093.4	1083.2	1068.6	1067.1	1067.1
1205.9	5°	1186.2	1167.2	1130.7	1092.0	1047.4	1005.1	962.7	921.8	908.6	899.1
1236.6	7.5°	1209.6	1179.6	1121.9	1048.1	963.4	870.7	805.6	735.5	708.5	693.9
1277.5	10°	1243.2	1202.3	1114.6	985.3	848.0	721.7	628.9	552.9	523.7	511.3
1322.1	12.5°	1280.4	1230.0	1101.5	907.2	721.7	570.5	479.9	444.8	440.4	440.4
1375.4	15°	1325.0	1263.6	1078.8	815.1	589.4	451.4	419.3	420.7	425.1	428.0
1427.2	17.5°	1371.0	1299.4	1043.0	712.2	472.6	406.1	406.8	409.0	412.7	415.6
1483.5	20°	1420.7	1335.2	995.6	602.6	405.4	393.0	395.2	397.3	400.3	401.7
1536.1	22.5°	1474.0	1368.8	939.3	495.2	382.7	382.0	382.7	384.9	388.6	388.6
1597.4	25°	1531.0	1406.1	875.0	417.1	371.1	371.1	372.5	374.0	376.9	376.9
1656.6	27.5°	1589.4	1440.4	807.1	376.2	360.8	360.1	360.1	362.3	363.7	364.5
1715.0	30°	1653.7	1480.6	739.2	367.4	352.8	349.1	346.9	348.4	349.9	350.6
1776.4	32.5°	1719.4	1519.3	678.6	371.1	344.8	338.2	330.9	329.4	329.4	332.3
1839.9	35°	1792.4	1561.6	631.8	383.5	340.4	322.1	310.4	303.9	304.6	309.0
1915.9	37.5°	1880.1	1612.8	597.5	394.4	337.5	303.9	284.9	276.8	271.7	276.8
2020.3	40°	1994.8	1688.0	572.6	403.2	333.8	282.7	257.1	244.0	234.5	237.4
2182.5	42.5°	2163.5	1806.3	563.2	403.9	325.8	257.8	228.6	211.1	197.2	197.9
2426.4	45°	2400.1	1993.3	612.1	394.4	308.2	230.8	198.7	175.3	166.5	164.3
2790.9	47.5°	2724.5	2265.7	725.3	374.7	282.7	204.5	169.5	149.7	143.2	139.5
3269.3	50°	3159.0	2615.6	850.9	352.8	257.1	179.7	145.4	132.9	128.6	124.9
3836.9	52.5°	3663.0	2970.6	953.9	330.9	231.5	157.8	130.0	122.7	119.1	116.1
4384.7	55°	4125.4	3215.3	948.1	307.5	206.7	140.2	119.1	114.7	110.3	107.4
4856.5	57.5°	4413.2	3249.6	781.5	281.9	178.2	126.4	108.8	105.9	100.8	97.1
5264.8	60°	4545.4	3053.9	547.8	248.3	149.7	113.2	97.9	96.4	89.8	84.7
5651.2	62.5°	4569.5	2690.1	365.2	206.7	124.9	100.8	86.9	84.7	76.0	67.2
5965.3	65°	4471.6	2170.1	252.7	161.4	106.6	87.6	74.5	70.1	60.6	51.9
6039.8	67.5°	4161.9	1523.6	176.0	116.1	90.6	69.4	59.2	57.7	50.4	43.1
5660.0	70°	3594.4	868.5	117.6	86.9	71.6	47.5	46.7	48.2	40.9	35.1
4624.3	72.5°	2755.9	397.3	73.0	63.5	48.9	32.1	37.3	38.0	31.4	26.3
2885.1	75°	1622.3	170.2	46.0	40.9	24.8	21.2	27.0	27.8	21.2	16.8
1054.7	77.5°	552.2	64.3	29.2	24.1	12.4	11.7	17.5	17.5	11.7	6.6
211.8	80°	125.6	24.1	14.6	9.5	5.8	5.1	5.8	5.1	2.9	0.7
65.0	82.5°	35.8	9.5	5.8	3.7	2.2	2.2	0.7	0.0	0.0	0.0
22.6	85°	10.2	4.4	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
8.0	87.5°	4.4	0.7	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>
1172.3
1070.8
903.5
696.1
511.3
440.4
428.0
415.6
402.5
390.0
377.6
365.2
352.1
334.5
311.2
275.4
235.9
195.0
161.4
137.3
124.2
115.4
105.9
96.4
83.3
62.8
48.9
40.9
32.1
23.4
14.6
5.1
0.0
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0.0
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