

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: P947768

Luminaire Tested: **GALN-SB3A-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947768
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-SB3A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 350mA 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: 10367 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

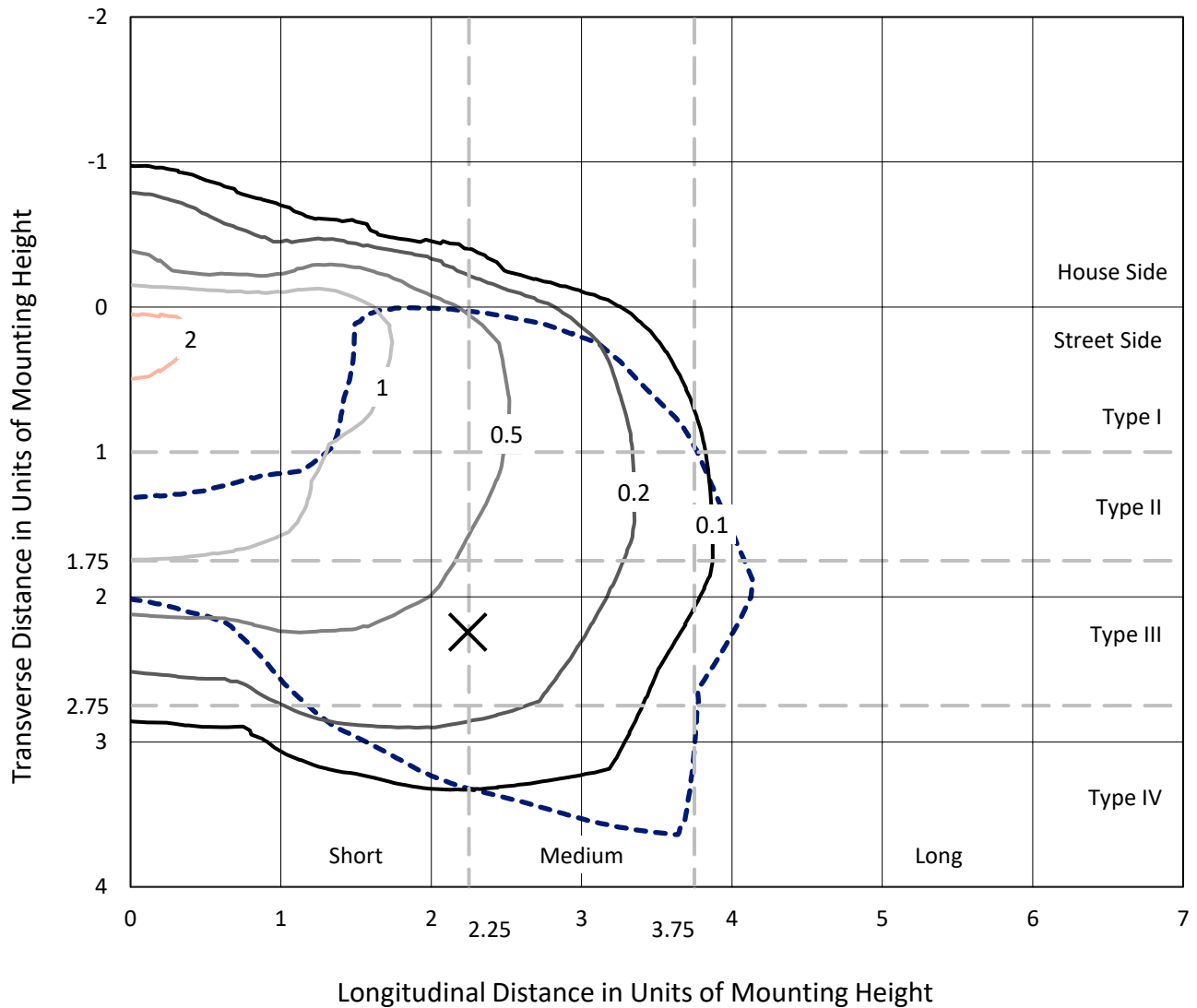
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

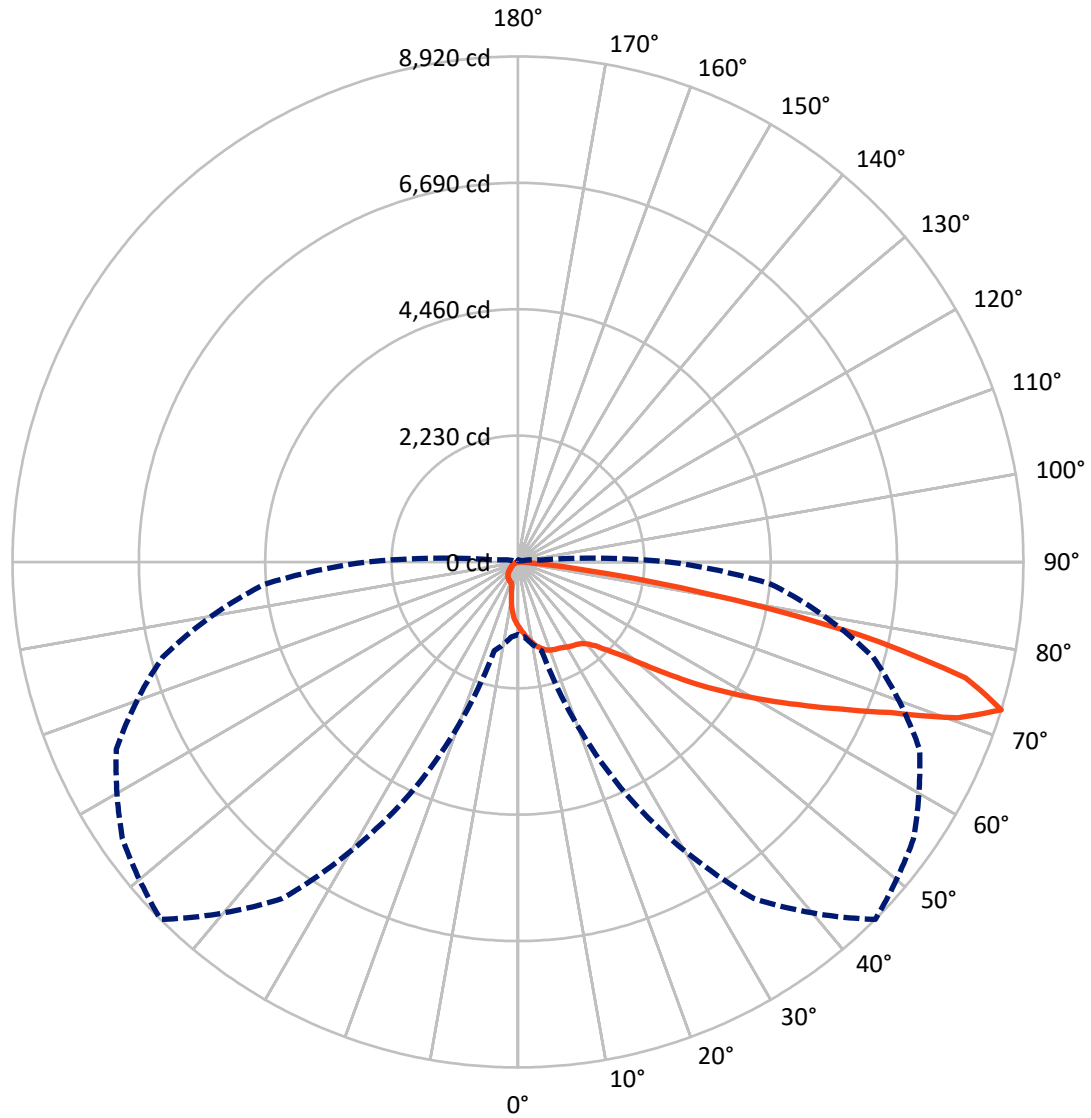
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1089.3	0.0	1089.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	9277.7	0.0	9277.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	10367.0	0.0	10367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	1.0
10°-20°	312.7	3.0
20°-30°	513.6	5.0
30°-40°	728.4	7.0
40°-50°	1203.9	11.6
50°-60°	2162.7	20.9
60°-70°	3003.0	29.0
70°-80°	2178.3	21.0
80°-90°	157.5	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°	10367.0	100.0
0°-180°	10367.0	100.0

Coefficient of Utilization



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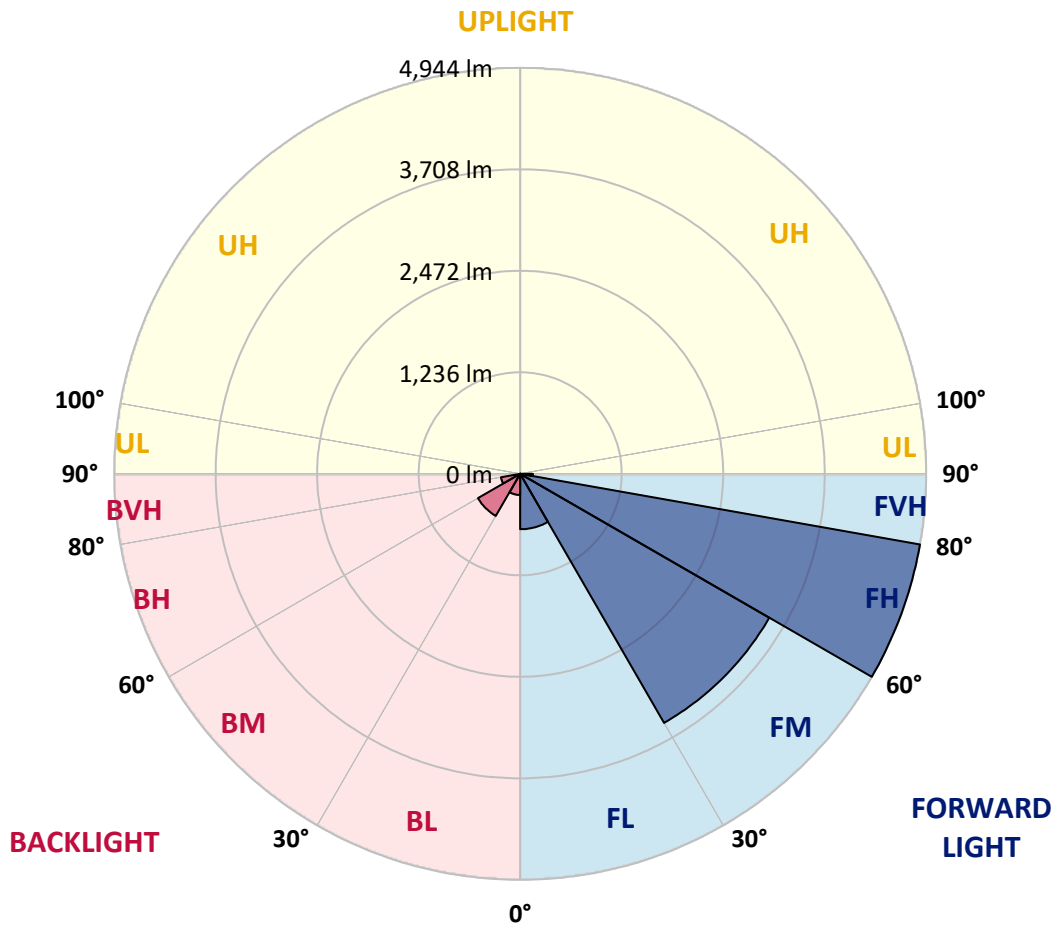
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.3	6.5			
FM (30°-60°)	3502.5	33.8			
FH (60°-80°)	4943.7	47.7			G2/5000
FVH (80°-90°)	156.2	1.5			G2/225
BL (0°-30°)	258.0	2.5	B1/500		
BM (30°-60°)	592.4	5.7	B1/1000		
BH (60°-80°)	237.5	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7
2.5°	1240.5	1242.6	1241.2	1232.7	1218.5	1210.7	1206.5	1192.3	1183.1	1166.9
5°	1354.4	1362.9	1357.9	1340.9	1314.0	1294.9	1289.3	1260.3	1234.1	1203.7
7.5°	1475.4	1479.6	1470.4	1448.5	1412.4	1379.9	1374.9	1334.6	1292.8	1246.1
10°	1580.1	1585.1	1570.9	1539.1	1498.0	1457.7	1450.6	1406.0	1356.5	1299.2
12.5°	1667.9	1672.8	1654.4	1616.2	1570.9	1529.2	1522.1	1475.4	1420.9	1357.2
15°	1734.4	1743.6	1718.8	1677.8	1628.9	1587.2	1583.6	1537.7	1484.6	1413.8
17.5°	1773.3	1782.5	1759.1	1709.6	1667.9	1632.5	1628.2	1590.0	1540.5	1472.6
20°	1779.7	1788.2	1763.4	1720.2	1685.5	1657.2	1655.1	1627.5	1591.4	1526.3
22.5°	1760.6	1771.2	1748.5	1713.9	1689.8	1674.9	1672.1	1656.5	1636.0	1580.8
25°	1740.7	1749.2	1732.2	1701.8	1689.1	1687.7	1689.8	1687.0	1682.7	1636.0
27.5°	1739.3	1748.5	1729.4	1700.4	1693.3	1708.2	1710.3	1723.8	1727.3	1686.3
30°	1751.4	1757.7	1739.3	1708.9	1705.4	1739.3	1740.0	1764.1	1769.8	1728.7
32.5°	1777.5	1784.6	1766.2	1721.6	1716.7	1764.1	1766.2	1798.1	1807.3	1774.0
35°	1839.1	1847.6	1826.4	1757.0	1739.3	1787.4	1793.8	1831.3	1849.7	1822.1
37.5°	1992.7	1967.9	1938.9	1828.5	1791.0	1824.2	1834.9	1878.7	1911.3	1879.4
40°	2374.1	2296.2	2205.6	1950.2	1881.6	1902.8	1911.3	1955.1	1999.7	1968.6
42.5°	2946.5	2854.5	2708.8	2230.4	2018.1	2028.7	2035.1	2073.3	2136.3	2111.5
45°	3456.7	3423.5	3274.9	2708.8	2273.6	2221.2	2229.0	2248.8	2341.5	2332.3
47.5°	3848.7	3829.6	3715.0	3257.9	2705.2	2456.8	2478.8	2488.0	2621.7	2654.3
50°	4150.2	4143.1	4040.5	3746.1	3269.2	2804.3	2812.1	2792.3	2992.5	3073.2
52.5°	4434.6	4458.7	4383.0	4199.7	3871.4	3259.3	3257.9	3164.5	3434.8	3556.5
55°	4691.5	4700.0	4707.8	4662.5	4477.1	3777.3	3763.8	3611.0	3947.8	4073.8
57.5°	4932.8	4936.3	5005.7	5098.4	5107.6	4333.5	4308.7	4125.4	4508.2	4598.1
60°	5094.8	5111.1	5257.6	5515.2	5627.7	4907.3	4893.9	4707.1	5078.6	5120.3
62.5°	4861.3	4960.4	5329.8	5840.7	6118.8	5543.5	5537.1	5361.6	5678.6	5644.7
65°	3935.1	4102.8	4752.4	6060.7	6600.7	6253.9	6263.1	6076.3	6295.0	6184.6
67.5°	2752.6	2929.5	3698.0	6078.4	7139.2	7088.2	7141.3	6848.3	6949.5	6701.9
70°	1903.5	1994.8	2495.1	5697.7	7558.8	8237.4	8236.0	7796.5	7600.5	6937.5
72.5°	1280.1	1327.5	1620.4	4520.3	7250.3	8920.2	8879.2	8521.1	7819.9	6488.1
75°	539.9	574.6	750.1	2540.3	5736.0	8161.0	8049.9	7530.5	6948.1	5109.0
77.5°	171.2	186.1	295.8	909.3	3159.5	6134.3	6016.9	4702.8	4656.8	2563.0
80°	81.4	94.8	166.3	365.1	1243.3	3336.4	3320.1	2133.5	2003.3	692.1
82.5°	35.4	41.7	92.0	195.3	556.2	1190.2	1214.3	726.0	600.8	262.5
85°	11.3	14.9	42.5	89.9	234.9	295.8	292.2	172.7	242.0	142.9
87.5°	0.0	0.0	14.2	20.5	24.1	17.0	19.1	14.9	67.2	39.6
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°
1135.7	0°	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7
1149.9	2.5°	1141.4	1130.1	1110.3	1091.9	1075.6	1059.3	1049.4	1035.2	1033.8	1033.8
1168.3	5°	1149.2	1130.8	1095.4	1057.9	1014.7	973.7	932.6	893.0	880.3	871.1
1198.0	7.5°	1171.8	1142.8	1086.9	1015.4	933.3	843.5	780.5	712.6	686.4	672.2
1237.6	10°	1204.4	1164.7	1079.8	954.6	821.5	699.1	609.3	535.7	507.4	495.3
1280.8	12.5°	1240.5	1191.6	1067.1	878.9	699.1	552.6	464.9	430.9	426.7	426.7
1332.4	15°	1283.6	1224.2	1045.2	789.7	571.0	437.3	406.2	407.6	411.8	414.7
1382.7	17.5°	1328.2	1258.9	1010.5	689.9	457.8	393.4	394.1	396.3	399.8	402.6
1437.2	20°	1376.3	1293.5	964.5	583.8	392.7	380.7	382.8	384.9	387.8	389.2
1488.1	22.5°	1428.0	1326.1	910.0	479.8	370.8	370.1	370.8	372.9	376.5	376.5
1547.6	25°	1483.2	1362.2	847.7	404.0	359.5	359.5	360.9	362.3	365.1	365.1
1604.9	27.5°	1539.8	1395.4	781.9	364.4	349.6	348.9	348.9	351.0	352.4	353.1
1661.5	30°	1602.0	1434.3	716.1	355.9	341.8	338.2	336.1	337.5	338.9	339.7
1720.9	32.5°	1665.7	1471.8	657.4	359.5	334.0	327.6	320.6	319.1	319.1	322.0
1782.5	35°	1736.5	1512.9	612.1	371.5	329.7	312.1	300.7	294.4	295.1	299.3
1856.1	37.5°	1821.4	1562.4	578.8	382.1	326.9	294.4	276.0	268.2	263.2	268.2
1957.3	40°	1932.5	1635.3	554.8	390.6	323.4	273.8	249.1	236.3	227.1	230.0
2114.4	42.5°	2096.0	1749.9	545.6	391.3	315.6	249.8	221.5	204.5	191.1	191.8
2350.7	45°	2325.2	1931.1	593.0	382.1	298.6	223.6	192.5	169.8	161.3	159.2
2703.8	47.5°	2639.4	2195.0	702.7	363.0	273.8	198.1	164.2	145.1	138.7	135.2
3167.3	50°	3060.4	2534.0	824.4	341.8	249.1	174.1	140.8	128.8	124.5	121.0
3717.1	52.5°	3548.7	2877.9	924.1	320.6	224.3	152.8	126.0	118.9	115.3	112.5
4247.8	55°	3996.6	3114.9	918.5	297.9	200.3	135.9	115.3	111.1	106.9	104.0
4705.0	57.5°	4275.4	3148.2	757.2	273.1	172.7	122.4	105.4	102.6	97.7	94.1
5100.5	60°	4403.5	2958.6	530.7	240.6	145.1	109.7	94.8	93.4	87.0	82.1
5474.8	62.5°	4426.9	2606.2	353.8	200.3	121.0	97.7	84.2	82.1	73.6	65.1
5779.1	65°	4332.0	2102.3	244.8	156.4	103.3	84.9	72.2	67.9	58.7	50.2
5851.3	67.5°	4032.0	1476.1	170.5	112.5	87.7	67.2	57.3	55.9	48.8	41.7
5483.3	70°	3482.2	841.4	113.9	84.2	69.3	46.0	45.3	46.7	39.6	34.0
4479.9	72.5°	2669.8	384.9	70.8	61.6	47.4	31.1	36.1	36.8	30.4	25.5
2795.1	75°	1571.6	164.9	44.6	39.6	24.1	20.5	26.2	26.9	20.5	16.3
1021.8	77.5°	535.0	62.3	28.3	23.4	12.0	11.3	17.0	17.0	11.3	6.4
205.2	80°	121.7	23.4	14.2	9.2	5.7	5.0	5.7	5.0	2.8	0.7
63.0	82.5°	34.7	9.2	5.7	3.5	2.1	2.1	0.7	0.0	0.0	0.0
21.9	85°	9.9	4.2	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
7.8	87.5°	4.2	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>
1135.7
1037.4
875.3
674.4
495.3
426.7
414.7
402.6
389.9
377.9
365.8
353.8
341.1
324.1
301.4
266.8
228.6
188.9
156.4
133.0
120.3
111.8
102.6
93.4
80.7
60.9
47.4
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31.1
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