

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: P946957

Luminaire Tested: **GALN-SB2B-950-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-950-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7786 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

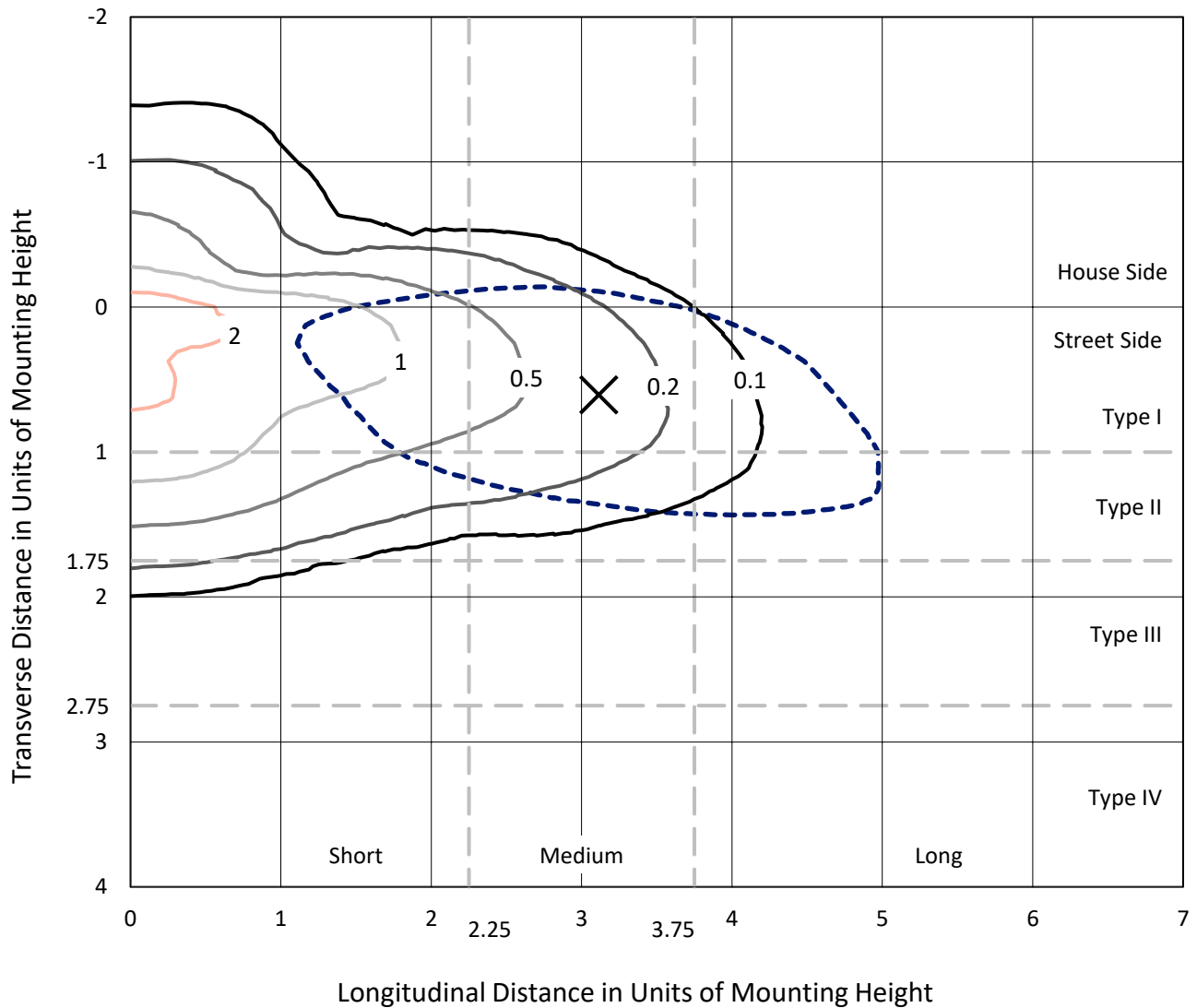
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

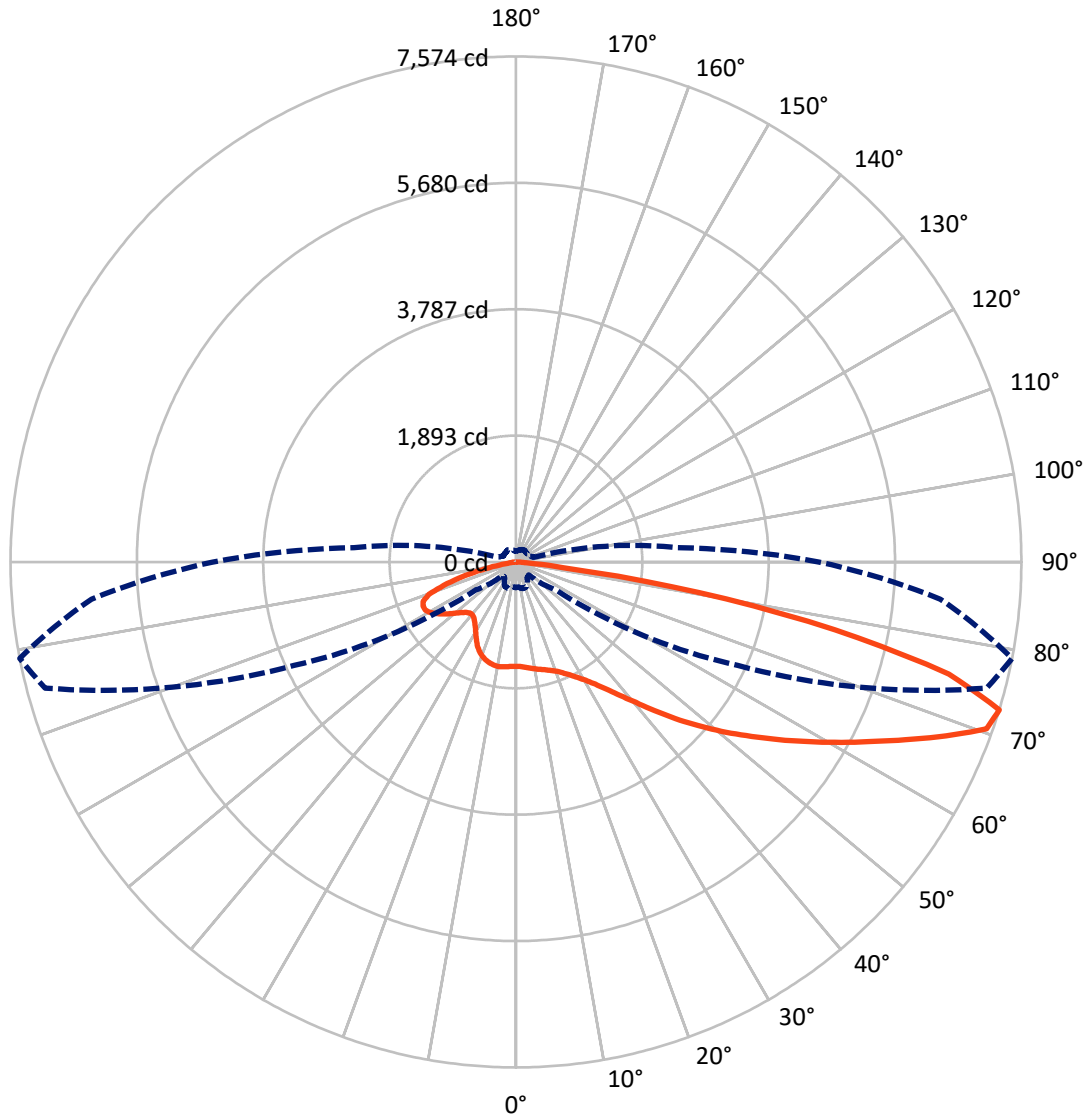
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1713.3	0.0	1713.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	6072.7	0.0	6072.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	7786.0	0.0	7786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	1.8
10°-20°	370.9	4.8
20°-30°	598.5	7.7
30°-40°	898.3	11.5
40°-50°	1274.3	16.4
50°-60°	1609.3	20.7
60°-70°	1634.4	21.0
70°-80°	1113.9	14.3
80°-90°	144.5	1.9
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°	7786.0	100.0
0°-180°	7786.0	100.0

Coefficient of Utilization



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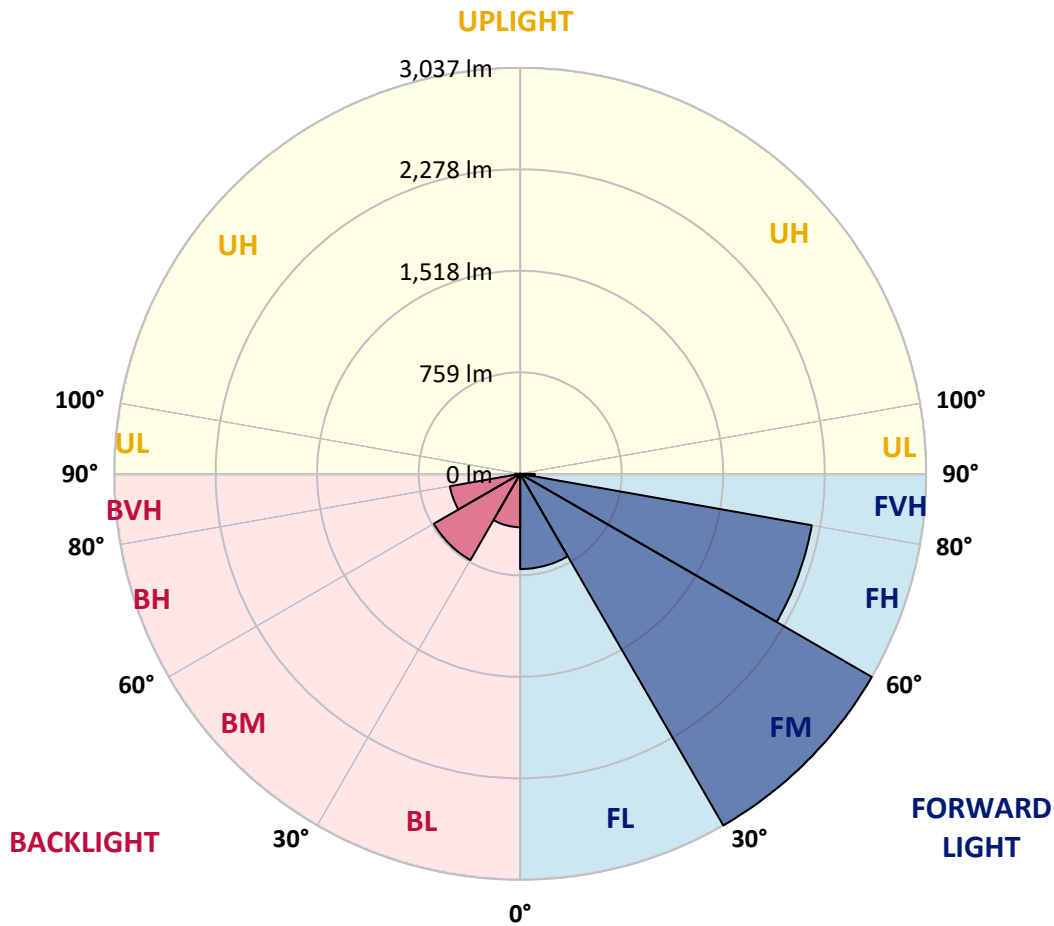
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	712.2	9.1			
FM (30°-60°)	3036.7	39.0			
FH (60°-80°)	2214.9	28.4			G2/5000
FVH (80°-90°)	108.9	1.4			G2/225
BL (0°-30°)	399.1	5.1	B1/500		
BM (30°-60°)	745.1	9.6	B1/1000		
BH (60°-80°)	533.5	6.9	B2/1000		G2/1000
BVH (80°-90°)	35.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1563.0	1563.0	1563.0	1563.0	1563.0	1563.0	1563.0	1563.0	1563.0	1563.0
2.5°	1563.8	1556.4	1560.9	1559.3	1561.3	1563.8	1564.6	1565.8	1570.0	1569.6
5°	1560.5	1553.1	1559.3	1557.2	1562.6	1568.3	1573.3	1577.8	1584.4	1587.3
7.5°	1553.5	1548.6	1554.7	1560.9	1570.8	1579.4	1586.4	1596.7	1606.2	1607.9
10°	1512.7	1509.0	1523.4	1539.5	1566.7	1590.1	1605.4	1617.3	1627.6	1629.3
12.5°	1470.3	1465.8	1481.8	1503.7	1547.7	1590.1	1622.3	1637.9	1647.0	1652.3
15°	1463.3	1459.6	1468.7	1487.6	1524.3	1579.0	1633.8	1662.6	1670.5	1676.6
17.5°	1497.1	1490.1	1493.8	1500.4	1521.8	1568.7	1642.9	1690.6	1702.6	1709.2
20°	1575.3	1565.4	1559.7	1546.5	1542.8	1570.4	1642.0	1724.4	1740.1	1748.3
22.5°	1679.5	1672.9	1660.6	1627.2	1591.0	1590.6	1657.7	1767.7	1796.9	1804.7
25°	1805.5	1795.7	1780.0	1734.7	1665.1	1630.5	1684.0	1822.8	1871.9	1873.9
27.5°	1950.5	1935.7	1914.3	1854.6	1760.7	1693.1	1724.4	1886.3	1957.9	1957.1
30°	2103.3	2088.5	2065.8	1993.3	1875.1	1777.5	1780.4	1954.6	2060.1	2055.5
32.5°	2214.9	2203.8	2199.3	2143.3	2006.9	1877.2	1844.7	2030.4	2186.1	2182.0
35°	2300.6	2286.2	2291.5	2263.1	2150.7	1988.8	1923.3	2120.6	2339.3	2338.9
37.5°	2385.4	2372.7	2377.2	2358.2	2283.7	2130.5	2019.3	2231.0	2529.2	2538.2
40°	2462.9	2449.3	2467.4	2449.7	2387.1	2281.2	2128.4	2355.8	2749.1	2766.4
42.5°	2509.4	2498.7	2528.8	2529.2	2476.9	2408.5	2248.3	2493.3	3003.6	3042.3
45°	2525.5	2521.7	2567.1	2576.5	2556.3	2482.2	2356.2	2643.2	3277.9	3347.1
47.5°	2508.2	2501.2	2563.8	2598.8	2614.8	2516.8	2445.6	2805.5	3558.0	3659.3
50°	2420.8	2407.3	2500.3	2574.1	2631.3	2539.5	2535.8	2992.9	3876.3	3987.1
52.5°	2263.9	2253.6	2359.5	2487.6	2595.1	2550.6	2637.1	3197.6	4178.6	4321.9
55°	2063.4	2049.8	2166.3	2333.5	2504.9	2546.9	2738.4	3426.6	4535.3	4680.7
57.5°	1745.4	1718.2	1865.7	2063.4	2357.8	2542.3	2843.8	3654.3	4897.7	5071.9
60°	1281.7	1241.3	1422.1	1656.5	2070.4	2498.3	2974.4	3909.7	5332.6	5489.5
62.5°	746.3	722.8	841.0	1059.7	1560.5	2238.8	3047.7	4206.6	5760.1	5924.9
65°	579.5	572.9	583.2	600.1	868.6	1676.2	2821.6	4496.2	6303.8	6419.1
67.5°	530.0	525.1	529.6	497.9	440.7	933.7	2232.2	4569.5	6886.1	6956.1
70°	471.2	465.4	480.2	453.0	346.8	424.6	1442.3	4303.4	7349.4	7480.8
72.5°	383.8	377.3	411.8	399.5	292.0	272.6	724.4	3671.2	7300.8	7573.5
75°	294.9	291.2	332.4	342.7	238.0	214.6	347.6	2728.9	6424.8	6699.5
77.5°	229.0	226.1	247.1	284.6	191.9	166.4	213.7	1731.0	4841.7	4889.9
80°	171.7	163.5	182.9	220.3	149.5	121.5	145.0	1009.4	3060.4	2774.2
82.5°	107.5	103.4	119.4	147.0	105.4	83.6	94.3	557.6	1226.5	722.4
85°	61.4	59.7	65.1	84.0	57.2	48.2	54.0	246.3	224.0	154.0
87.5°	24.7	23.9	29.7	37.5	21.0	17.7	18.9	59.3	49.4	45.7
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°
1563.0	0°	1563.0	1563.0	1563.0	1563.0	1563.0	1563.0	1563.0	1563.0	1563.0	1563.0
1569.1	2.5°	1567.5	1567.5	1561.7	1552.7	1542.4	1535.8	1525.1	1522.2	1511.1	1507.8
1583.1	5°	1586.4	1583.1	1565.4	1539.9	1504.9	1472.8	1437.4	1415.1	1383.8	1372.7
1610.7	7.5°	1610.3	1601.3	1570.8	1514.8	1441.5	1369.4	1294.4	1237.6	1183.2	1163.9
1633.4	10°	1632.2	1619.4	1567.5	1469.5	1342.6	1217.8	1098.4	1014.8	951.4	925.4
1658.5	12.5°	1654.0	1630.5	1545.7	1394.1	1202.2	1032.9	905.7	840.6	801.5	770.2
1679.1	15°	1674.6	1641.6	1511.9	1293.2	1048.2	876.4	782.5	730.6	699.3	678.7
1709.2	17.5°	1698.5	1651.1	1461.2	1165.1	901.5	768.1	691.5	660.2	654.0	651.5
1750.4	20°	1731.8	1659.7	1394.5	1021.8	793.6	681.6	642.1	639.2	638.8	637.5
1799.8	22.5°	1767.7	1670.0	1306.4	891.7	701.8	627.7	620.7	614.9	611.2	610.8
1859.5	25°	1810.1	1673.3	1196.0	785.0	623.5	602.1	593.9	585.2	582.8	582.8
1927.5	27.5°	1851.3	1662.2	1067.5	692.3	579.5	578.6	567.9	565.1	564.6	565.9
2004.9	30°	1892.4	1641.2	939.8	606.7	553.9	553.9	550.2	552.3	553.9	558.1
2111.1	32.5°	1948.0	1619.0	833.2	543.2	531.7	527.6	531.3	535.4	537.1	542.4
2250.8	35°	2029.6	1603.3	748.3	508.6	508.6	503.3	505.3	504.5	500.8	498.3
2419.6	37.5°	2137.5	1602.5	678.3	492.6	489.3	488.5	488.9	483.5	469.1	451.8
2623.9	40°	2267.2	1624.7	624.4	481.5	479.0	483.9	481.5	467.0	427.5	397.4
2875.1	42.5°	2441.4	1688.2	589.8	467.9	475.3	481.5	471.6	421.7	395.0	374.8
3161.3	45°	2646.5	1791.1	572.1	453.4	468.3	475.7	427.9	406.1	384.7	360.4
3473.5	47.5°	2878.8	1920.9	567.9	439.9	452.6	457.2	409.4	399.5	375.2	348.8
3787.4	50°	3131.7	2074.5	579.1	423.8	430.0	414.3	403.2	394.1	369.0	343.1
4109.0	52.5°	3393.2	2243.8	601.3	402.0	407.3	390.0	400.7	392.9	365.3	330.3
4441.4	55°	3650.2	2414.3	622.7	376.4	384.3	368.2	393.7	388.0	348.4	308.9
4796.0	57.5°	3911.3	2583.9	643.7	353.8	362.0	347.2	382.6	374.8	329.5	289.1
5183.1	60°	4182.7	2748.7	653.6	331.9	337.7	327.8	365.7	352.1	308.1	268.9
5563.7	62.5°	4436.8	2885.8	637.5	310.1	313.8	309.7	343.5	325.4	286.6	246.3
5960.3	65°	4691.8	2967.4	588.1	288.7	289.5	287.5	312.2	296.5	261.5	226.5
6307.5	67.5°	4922.8	3013.1	509.5	265.6	263.6	262.8	282.9	265.2	237.2	206.7
6571.5	70°	4971.8	2896.9	389.2	238.5	238.5	236.4	250.8	232.7	210.5	185.7
6382.4	72.5°	4541.0	2436.9	276.4	207.6	210.9	206.7	218.7	203.5	183.3	166.8
5500.7	75°	3661.7	1787.0	201.0	175.9	181.6	174.6	185.7	175.0	157.7	157.3
3790.7	77.5°	2516.0	1105.0	145.8	145.0	149.1	140.0	152.8	147.0	131.4	124.4
1649.9	80°	1073.7	440.7	106.3	112.0	112.0	103.8	118.6	120.3	106.7	103.4
318.4	82.5°	213.7	125.2	74.5	77.0	72.5	70.0	84.0	93.1	128.5	142.9
96.0	85°	64.2	46.1	44.9	42.0	37.1	37.5	49.4	93.5	115.3	65.9
31.7	87.5°	17.7	11.5	11.9	9.5	7.8	10.3	16.9	70.8	38.7	16.5
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>
1563.0
1513.1
1380.9
1166.4
931.2
780.5
682.4
653.2
641.7
615.3
585.2
569.2
560.9
546.9
504.1
452.2
396.6
374.0
358.7
346.8
340.2
327.8
306.8
288.3
267.7
245.9
224.0
204.3
184.9
<i>161.9</i>
141.7
116.6
103.4
143.3
56.8
14.0
0.0

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