

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: P946077

Luminaire Tested: **GALN-SB1D-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8939 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

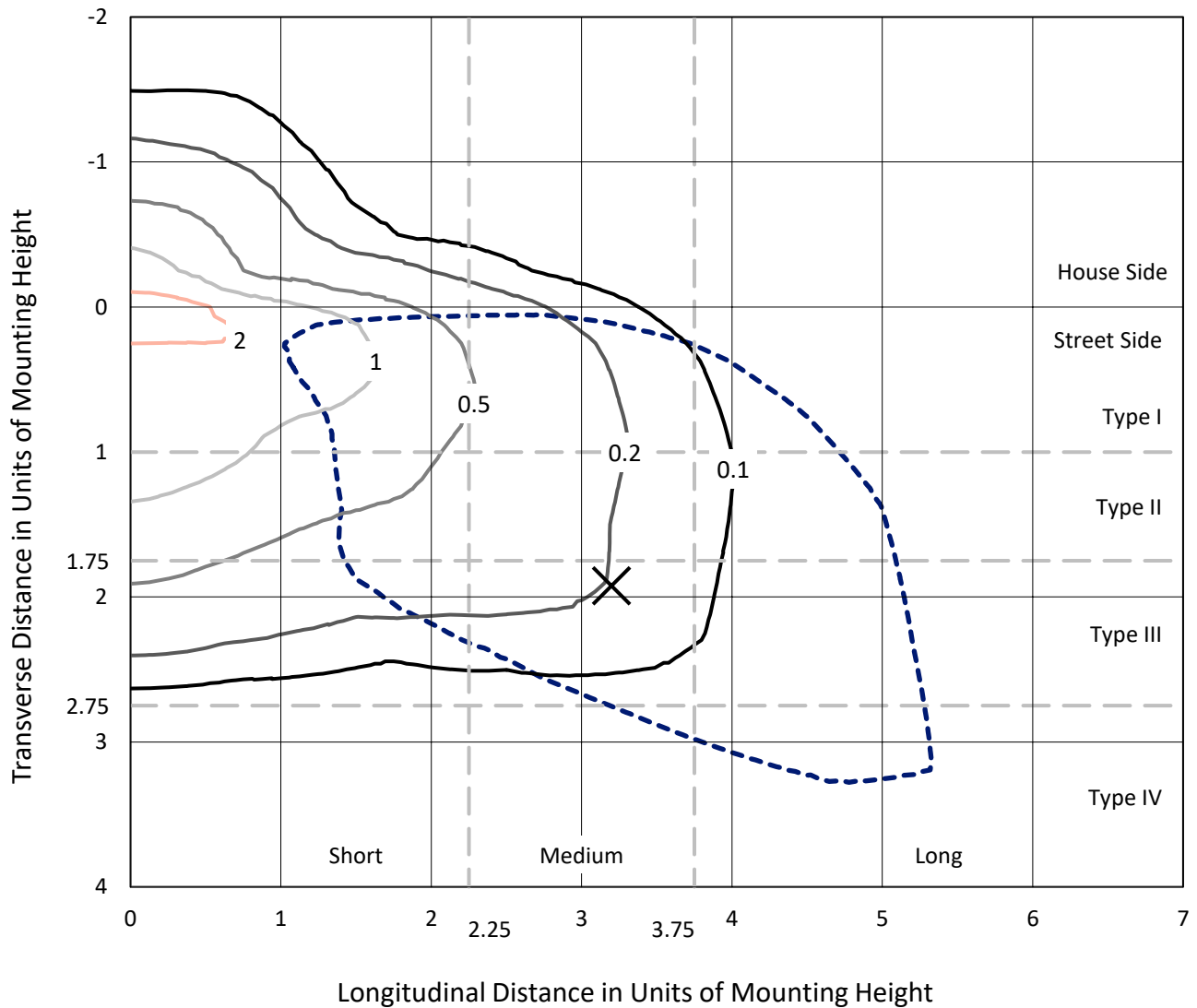
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

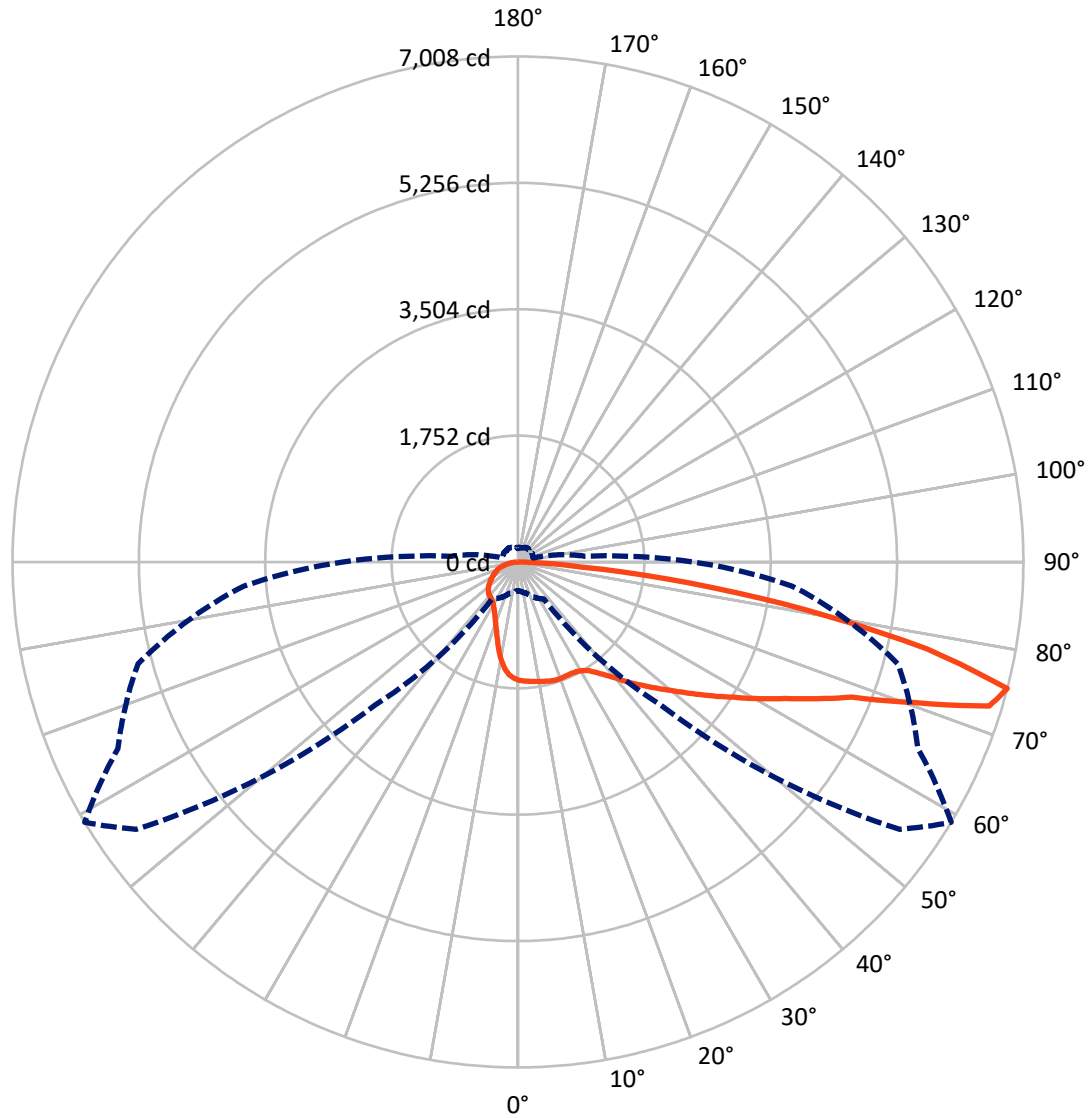
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1676.6	0.0	1676.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7262.4	0.0	7262.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	8939.0	0.0	8939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	1.6
10°-20°	376.0	4.2
20°-30°	571.2	6.4
30°-40°	849.0	9.5
40°-50°	1262.7	14.1
50°-60°	1713.9	19.2
60°-70°	2092.4	23.4
70°-80°	1642.1	18.4
80°-90°	284.5	3.2
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°	8939.0	100.0
0°-180°	8939.0	100.0

Coefficient of Utilization



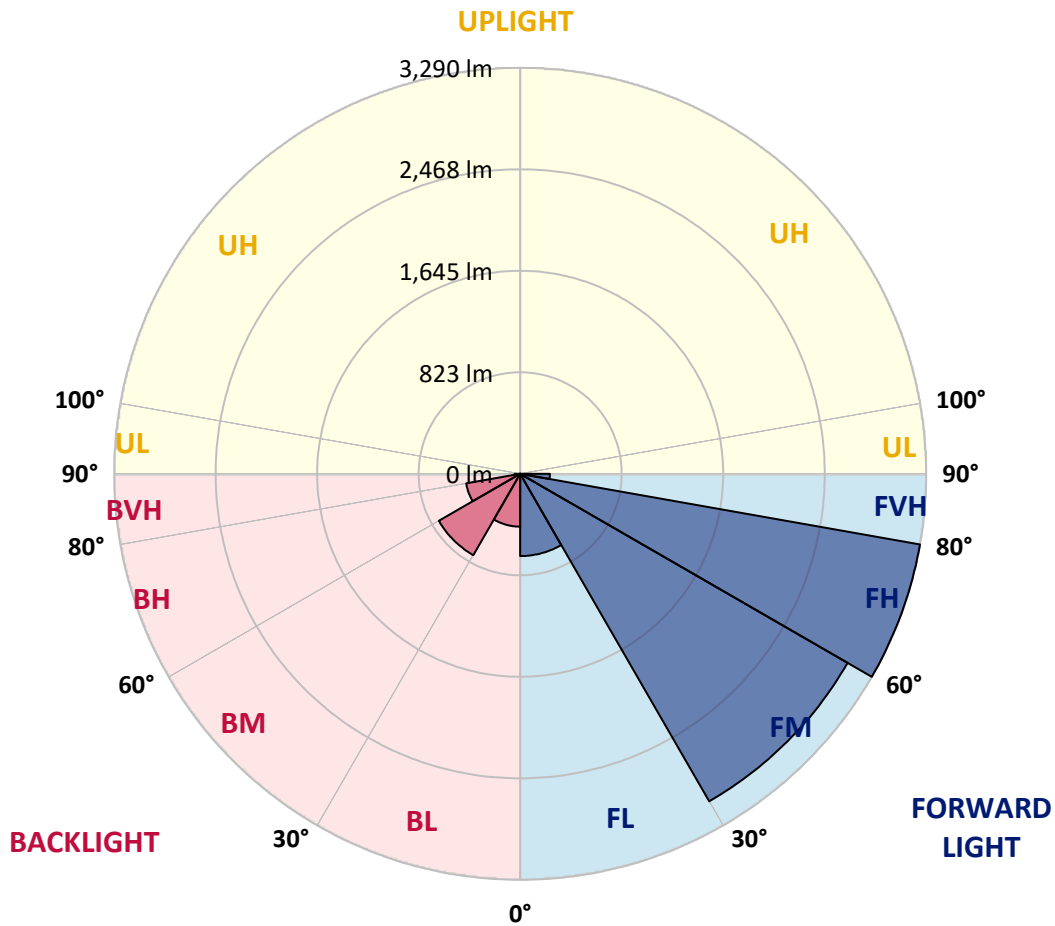
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	666.5	7.5			
FM (30°-60°)	3064.7	34.3			
FH (60°-80°)	3290.4	36.8			G2/5000
FVH (80°-90°)	240.9	2.7			G3/500
BL (0°-30°)	427.8	4.8	B1/500		
BM (30°-60°)	761.0	8.5	B1/1000		
BH (60°-80°)	444.2	5.0	B1/500		G1/500
BVH (80°-90°)	43.5	0.5			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7
2.5°	1654.7	1648.9	1654.7	1652.3	1651.3	1649.4	1649.9	1653.2	1651.3	1653.7
5°	1643.6	1640.3	1646.0	1644.6	1650.8	1651.8	1658.0	1661.9	1664.3	1664.8
7.5°	1625.3	1622.0	1630.2	1636.9	1650.4	1654.2	1667.2	1673.4	1676.8	1682.6
10°	1558.5	1557.1	1577.3	1602.7	1634.5	1654.2	1673.9	1684.5	1689.8	1705.2
12.5°	1440.2	1442.1	1468.6	1517.6	1581.1	1644.6	1681.6	1697.0	1705.2	1724.4
15°	1327.2	1326.7	1355.6	1408.0	1497.0	1602.3	1685.5	1711.9	1725.8	1754.2
17.5°	1261.8	1259.9	1280.1	1320.0	1402.7	1537.3	1675.8	1720.1	1749.9	1785.5
20°	1249.8	1245.9	1256.5	1276.2	1334.9	1466.2	1650.8	1720.1	1769.1	1815.3
22.5°	1293.5	1287.3	1283.0	1280.6	1306.5	1407.5	1622.5	1714.3	1797.5	1858.1
25°	1381.5	1371.9	1349.8	1328.2	1320.5	1381.1	1597.5	1712.9	1839.8	1915.8
27.5°	1523.9	1511.9	1467.1	1415.2	1368.6	1394.5	1586.4	1721.5	1886.5	1976.9
30°	1700.4	1687.4	1631.1	1551.3	1467.6	1444.5	1600.3	1747.0	1946.1	2058.1
32.5°	1858.6	1844.1	1796.1	1714.8	1601.8	1531.1	1644.6	1795.6	2039.9	2171.1
35°	1999.0	1982.2	1938.9	1863.9	1766.2	1652.8	1724.4	1881.7	2173.1	2354.8
37.5°	2136.5	2116.8	2069.7	1990.3	1922.0	1814.8	1834.5	1992.3	2350.0	2578.0
40°	2290.4	2262.0	2204.8	2126.4	2060.1	2004.8	1979.3	2127.9	2529.9	2827.0
42.5°	2439.5	2412.5	2344.2	2277.4	2194.2	2178.3	2147.1	2286.5	2726.5	3100.7
45°	2600.1	2567.9	2485.1	2400.5	2348.1	2293.8	2309.6	2445.2	2919.4	3379.6
47.5°	2750.6	2714.5	2616.9	2522.7	2493.8	2390.9	2458.7	2619.8	3119.9	3662.3
50°	2831.9	2796.3	2715.0	2629.9	2607.3	2510.6	2620.3	2811.7	3330.0	3944.1
52.5°	2899.7	2861.2	2754.9	2707.8	2701.1	2640.9	2819.3	3030.9	3540.2	4193.2
55°	2971.8	2929.0	2793.4	2751.1	2781.8	2787.1	3055.5	3279.5	3762.3	4436.0
57.5°	3055.0	3000.6	2830.4	2787.6	2860.7	2958.3	3326.7	3537.3	3980.7	4661.1
60°	3133.4	3078.5	2901.6	2845.8	2945.8	3156.9	3637.8	3849.4	4227.8	4861.6
62.5°	3148.7	3103.5	2958.3	2957.8	3061.2	3388.7	4006.1	4164.3	4443.7	5059.7
65°	2882.3	2854.0	2767.9	2953.5	3226.6	3722.4	4416.3	4567.3	4718.3	5232.8
67.5°	2193.7	2197.6	2191.3	2549.6	3093.0	4201.9	5010.2	4998.7	5057.3	5427.1
70°	1003.1	1025.7	1172.8	1760.0	2477.9	4257.2	5992.1	5842.6	5482.9	5678.6
72.5°	541.9	559.3	619.4	852.6	1489.7	3784.9	6725.9	6832.2	6048.9	5847.9
75°	397.7	407.3	449.1	541.9	625.6	2813.1	6462.9	7008.2	6119.6	5453.1
77.5°	297.7	302.0	336.1	429.4	320.3	1483.0	5164.1	5804.1	5238.6	4480.3
80°	215.9	220.7	246.2	322.2	224.6	542.4	3545.9	4073.9	3587.8	2855.9
82.5°	149.1	151.0	162.1	219.3	156.8	210.6	2012.0	2389.0	2002.8	1002.1
85°	89.9	92.3	97.1	127.9	89.0	100.0	868.5	898.3	598.7	239.5
87.5°	37.0	39.4	43.3	53.9	35.1	27.9	143.3	179.8	112.0	70.2
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°
1640.7	0°	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7
1645.5	2.5°	1643.1	1639.8	1630.6	1618.1	1606.6	1592.2	1585.9	1580.6	1575.8	1566.7
1658.5	5°	1653.2	1644.1	1619.6	1587.8	1551.8	1512.3	1473.9	1447.4	1424.8	1408.0
1673.4	7.5°	1668.6	1651.3	1606.6	1541.7	1459.0	1374.3	1297.9	1243.5	1202.7	1187.8
1694.6	10°	1684.5	1663.8	1585.9	1471.5	1328.6	1198.3	1096.9	1041.1	1008.4	997.8
1719.6	12.5°	1703.2	1673.0	1553.7	1373.8	1182.9	1040.1	951.6	918.9	902.1	896.3
1750.4	15°	1730.7	1680.6	1505.1	1251.7	1044.0	924.7	867.5	844.9	836.2	835.8
1782.1	17.5°	1751.3	1682.1	1429.6	1120.9	937.2	855.0	807.9	799.2	805.0	813.6
1813.4	20°	1774.4	1669.1	1330.6	1001.7	862.2	793.9	774.2	780.0	793.9	806.4
1854.7	22.5°	1790.8	1645.5	1210.8	908.8	797.3	758.8	757.9	769.9	777.6	783.8
1903.3	25°	1805.2	1605.6	1083.9	830.9	743.9	737.7	748.2	744.4	739.1	744.4
1951.9	27.5°	1815.8	1542.6	970.4	762.7	706.4	723.2	717.0	708.3	707.8	710.7
2009.1	30°	1812.4	1458.5	877.1	697.7	680.0	696.3	681.4	680.0	678.5	680.0
2095.2	32.5°	1812.4	1362.8	805.5	653.0	663.1	656.9	655.4	652.1	646.3	645.8
2212.0	35°	1822.5	1267.1	743.9	629.0	649.2	634.3	635.2	627.1	615.0	609.3
2366.8	37.5°	1843.2	1190.2	682.8	617.4	624.7	624.2	620.3	606.4	585.2	566.9
2560.2	40°	1893.2	1167.6	641.0	612.1	613.1	618.9	608.8	581.9	533.8	504.0
2756.4	42.5°	1971.6	1205.5	631.9	599.2	605.4	611.2	591.5	529.0	494.8	477.0
2962.2	45°	2071.1	1271.9	651.6	580.4	587.1	597.2	538.6	508.8	493.4	493.9
3166.1	47.5°	2197.1	1341.6	688.1	564.1	560.7	566.5	503.5	485.2	464.0	469.3
3361.8	50°	2342.8	1412.3	722.7	541.9	531.4	512.6	480.9	463.6	436.6	424.1
3550.8	52.5°	2500.5	1480.6	736.7	515.0	499.6	478.0	465.5	444.3	411.6	390.9
3729.2	55°	2650.1	1542.6	721.3	482.8	467.9	451.1	449.1	436.2	401.0	372.2
3887.8	57.5°	2791.5	1594.6	682.8	450.1	435.7	425.6	438.6	432.3	388.1	351.0
4037.9	60°	2911.2	1630.2	627.1	416.9	406.8	401.5	421.2	419.3	369.8	328.4
4172.5	62.5°	3006.4	1644.1	565.5	385.2	382.8	373.2	397.2	397.2	346.7	306.3
4290.8	65°	3080.9	1630.6	503.0	353.9	358.7	344.3	367.9	365.0	322.2	286.6
4426.9	67.5°	3146.8	1586.4	433.7	323.1	334.2	315.9	337.1	330.4	295.3	266.9
4544.7	70°	3176.2	1483.5	354.9	292.4	305.8	288.0	306.3	293.8	265.0	245.7
4415.4	72.5°	2940.5	1233.0	279.4	260.2	271.7	257.3	273.1	258.7	232.3	223.6
3812.8	75°	2432.7	925.2	214.9	225.0	233.7	222.6	233.2	222.6	198.6	204.9
2816.5	77.5°	1766.7	624.7	164.5	188.0	191.9	186.1	195.2	183.2	161.6	160.1
1403.7	80°	878.6	365.9	128.9	148.6	147.1	143.3	153.9	148.1	129.8	137.5
378.9	82.5°	254.4	156.8	93.8	104.3	101.5	102.4	110.1	113.0	169.3	167.8
117.8	85°	79.8	61.6	56.3	58.2	55.3	56.7	64.9	128.9	119.3	69.7
36.5	87.5°	20.7	21.2	13.9	14.9	15.4	18.3	20.7	78.4	37.5	24.5
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>
1640.7
1562.4
1394.0
1161.8
981.5
897.8
837.7
817.0
810.7
787.2
747.8
715.5
685.2
652.1
615.0
573.2
507.8
477.0
496.3
482.8
427.5
390.5
372.2
349.1
327.0
304.9
284.7
265.0
241.9
216.4
<i>187.1</i>
152.9
136.1
171.7
75.5
26.0
0.0

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