

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: P939814

Luminaire Tested: **GALN-SB2C-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9827 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

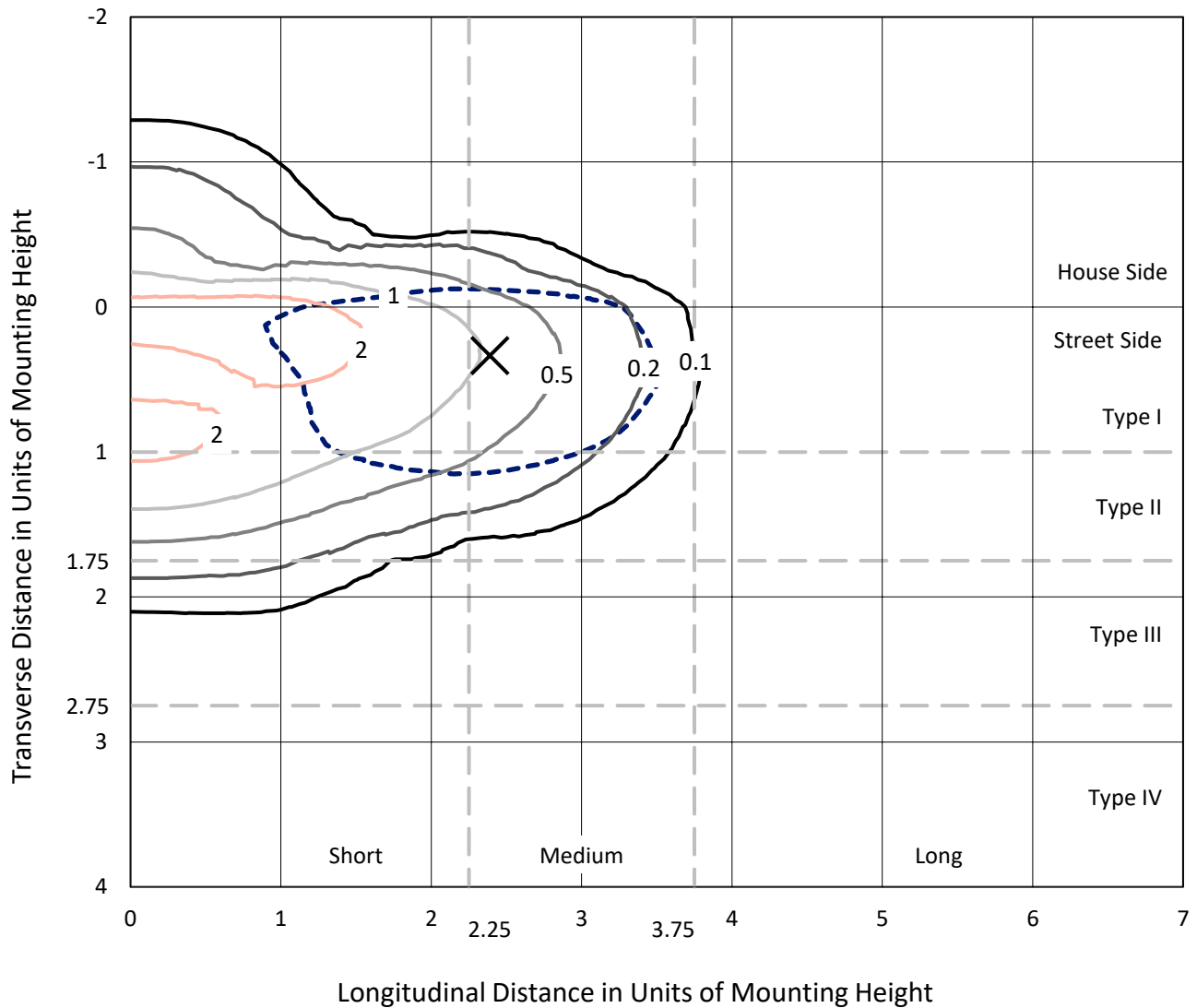
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

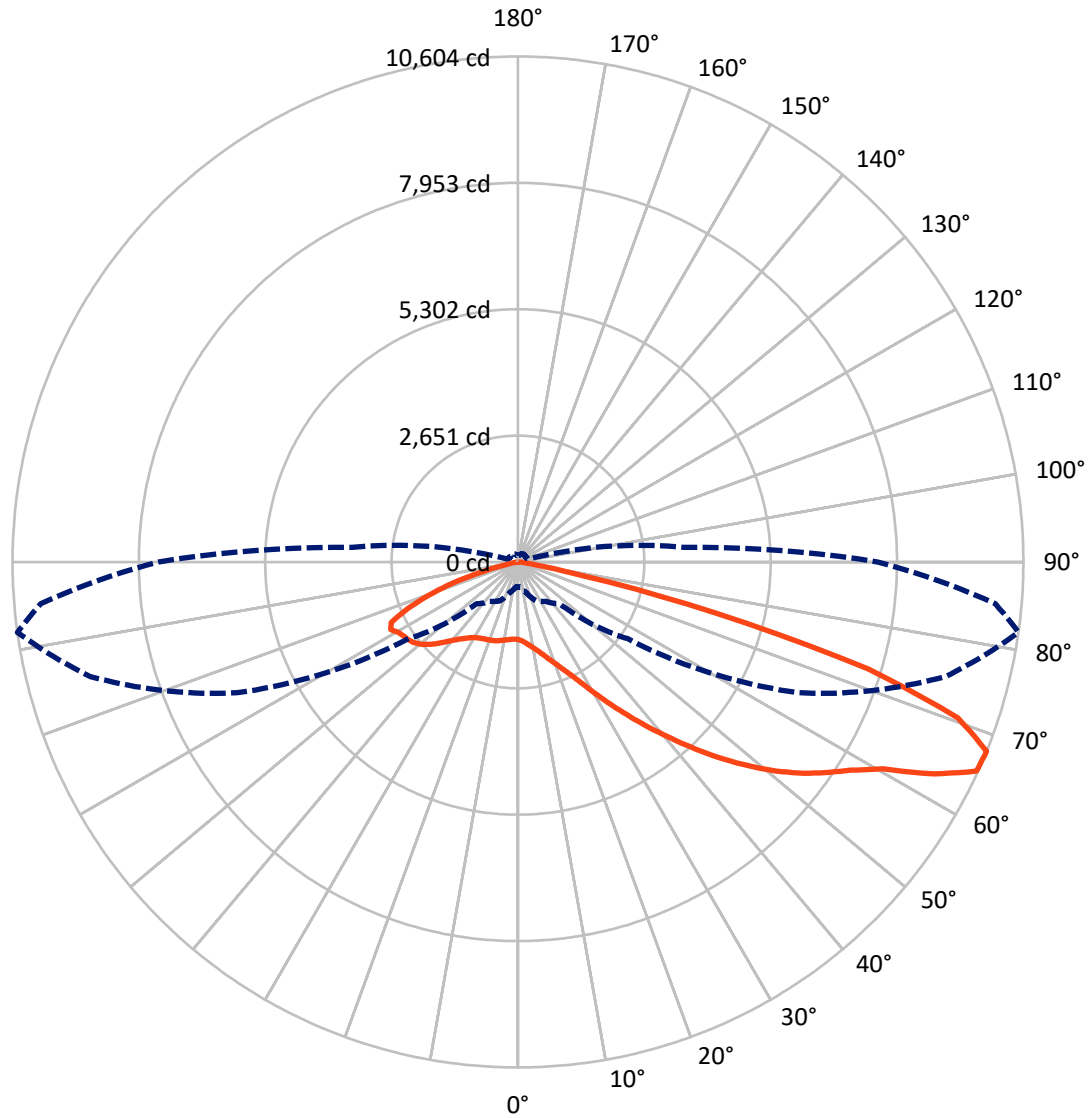
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1780.1	0.0	1780.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8046.9	0.0	8046.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	9827.0	0.0	9827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	1.5
10°-20°	376.9	3.8
20°-30°	603.7	6.1
30°-40°	1067.5	10.9
40°-50°	1870.4	19.0
50°-60°	2494.5	25.4
60°-70°	2322.3	23.6
70°-80°	891.3	9.1
80°-90°	55.4	0.6
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°	9827.0	100.0
0°-180°	9827.0	100.0

Coefficient of Utilization



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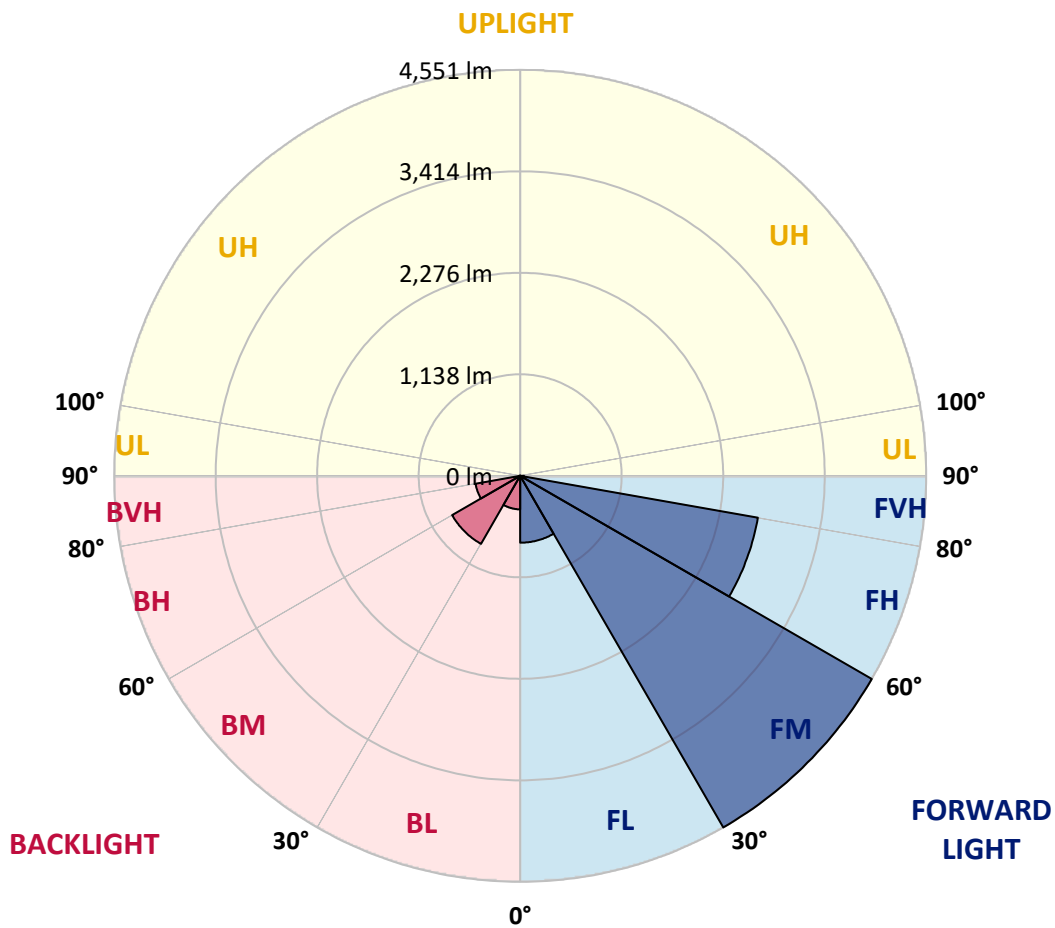
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	749.7	7.6			
FM (30°-60°)	4551.5	46.3			
FH (60°-80°)	2705.5	27.5			G2/5000
FVH (80°-90°)	40.2	0.4			G1/100
BL (0°-30°)	375.9	3.8	B1/500		
BM (30°-60°)	881.0	9.0	B1/1000		
BH (60°-80°)	508.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	15.1	0.2			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°	82°
0°	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0
2.5°	1720.7	1730.6	1724.9	1722.1	1717.1	1710.1	1704.4	1686.7	1668.3	1656.3
5°	1755.4	1765.3	1764.6	1767.4	1770.9	1773.0	1771.6	1751.8	1725.6	1705.1
7.5°	1725.6	1737.0	1746.2	1760.3	1785.1	1811.2	1824.0	1819.7	1792.9	1764.6
10°	1641.4	1653.5	1675.4	1708.7	1761.0	1817.6	1865.0	1887.0	1870.0	1838.8
12.5°	1487.2	1499.2	1542.4	1614.6	1702.3	1800.6	1891.2	1949.9	1954.2	1923.0
15°	1313.9	1325.9	1371.9	1462.4	1596.2	1753.9	1905.3	2016.4	2053.9	2027.0
17.5°	1206.3	1216.9	1251.6	1324.5	1463.9	1660.5	1900.4	2087.2	2172.8	2151.6
20°	1173.8	1183.0	1199.2	1250.2	1366.2	1563.6	1867.9	2153.7	2300.9	2288.8
22.5°	1208.4	1216.9	1221.9	1244.5	1317.4	1499.9	1826.8	2221.6	2449.4	2450.8
25°	1288.4	1296.9	1291.2	1305.4	1337.2	1480.1	1811.2	2301.6	2636.2	2651.8
27.5°	1420.0	1420.7	1407.3	1406.5	1411.5	1509.8	1827.5	2387.2	2871.8	2900.8
30°	1683.9	1673.3	1621.6	1565.7	1540.3	1599.0	1872.8	2488.3	3149.9	3201.5
32.5°	2090.7	2075.2	1980.3	1846.6	1712.2	1742.6	1954.2	2603.7	3452.7	3546.1
35°	2532.2	2528.0	2428.9	2230.1	1995.2	1947.1	2086.5	2755.1	3783.1	3931.7
37.5°	2942.6	2940.4	2883.8	2649.7	2363.8	2232.2	2298.7	2953.2	4136.9	4351.9
40°	3317.6	3323.9	3267.3	3057.9	2769.9	2598.0	2587.4	3198.0	4530.2	4809.7
42.5°	3641.6	3648.7	3591.4	3436.4	3171.1	3002.7	2941.9	3498.0	4914.4	5301.4
45°	3861.6	3905.5	3897.0	3773.2	3582.9	3408.1	3367.8	3874.4	5352.4	5822.9
47.5°	3923.9	3964.2	4027.9	4044.9	3928.9	3756.9	3805.0	4327.9	5795.3	6345.0
50°	3770.4	3807.9	3940.2	4116.3	4197.0	4143.9	4230.3	4814.0	6248.8	6865.8
52.5°	3467.6	3505.8	3672.7	3951.5	4280.5	4447.5	4656.9	5293.0	6688.2	7358.9
55°	3029.6	3069.9	3284.3	3599.9	4121.3	4572.7	5012.8	5771.2	7090.8	7802.5
57.5°	2433.9	2463.6	2686.4	3127.9	3720.8	4448.2	5275.3	6293.4	7470.0	8238.4
60°	1586.3	1612.4	1871.4	2363.8	3057.2	4032.2	5327.6	6875.7	7973.7	8805.1
62.5°	1054.9	1072.6	1226.1	1587.7	2153.0	3233.4	5021.3	7340.5	8712.4	9791.4
65°	723.8	741.5	895.0	1146.9	1391.0	2138.8	4140.4	7279.0	9381.7	10574.6
67.5°	516.5	531.3	661.5	899.3	1006.8	1242.4	2806.7	6492.2	9285.5	10604.3
70°	370.0	378.5	486.1	700.4	800.2	746.4	1560.8	4965.4	8130.1	9792.1
72.5°	259.0	261.8	337.5	533.5	644.5	544.8	742.9	3310.5	6149.0	7685.8
75°	175.5	179.0	227.1	391.3	517.2	416.0	393.4	1775.2	3609.8	4254.3
77.5°	107.5	109.0	146.5	267.4	387.0	317.0	253.3	752.1	1396.6	1371.2
80°	60.8	60.8	93.4	166.3	263.9	204.5	177.6	319.8	442.2	388.4
82.5°	34.0	34.7	67.9	103.3	174.8	121.0	97.6	147.9	191.0	169.1
85°	14.2	15.6	41.7	48.8	83.5	60.1	39.6	62.3	70.8	63.0
87.5°	1.4	2.1	12.7	9.2	9.9	12.0	5.7	12.0	9.9	9.9
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°
1628.0	0°	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0	1628.0
1652.1	2.5°	1638.6	1628.0	1601.1	1570.0	1528.9	1509.1	1482.3	1463.9	1448.3	1449.7
1693.1	5°	1670.5	1643.6	1583.4	1508.4	1415.0	1348.5	1277.8	1229.0	1189.3	1180.8
1749.7	7.5°	1714.3	1671.9	1566.4	1431.3	1273.5	1154.0	1047.1	978.5	929.7	914.1
1818.3	10°	1770.9	1709.4	1544.5	1334.4	1107.3	955.2	840.5	786.8	753.5	742.2
1899.0	12.5°	1836.7	1752.5	1515.5	1216.2	936.0	789.6	716.7	689.8	679.2	675.7
1998.0	15°	1919.5	1806.3	1471.6	1076.1	791.0	688.4	657.3	653.7	655.2	653.7
2116.9	17.5°	2017.8	1865.0	1400.2	931.8	693.4	636.8	625.4	628.3	631.8	631.1
2249.9	20°	2125.4	1923.0	1308.9	803.7	626.9	600.0	593.6	596.4	599.3	597.9
2403.4	22.5°	2247.8	1985.3	1207.7	704.0	582.3	566.0	558.9	559.6	559.6	556.8
2598.0	25°	2394.2	2053.9	1101.6	633.2	548.3	535.6	527.1	524.3	520.0	511.5
2834.3	27.5°	2569.0	2126.8	999.7	583.7	521.4	509.4	499.5	492.4	481.8	467.7
3118.0	30°	2765.7	2215.2	913.4	552.6	500.2	488.2	476.9	466.3	450.7	433.0
3444.2	32.5°	2997.1	2310.0	850.4	532.1	481.1	468.4	454.9	442.2	425.2	407.5
3810.7	35°	3273.0	2424.7	813.6	517.9	466.3	449.3	434.4	420.3	407.5	392.0
4209.0	37.5°	3572.3	2546.4	802.3	510.8	456.3	430.2	413.2	403.3	401.9	392.7
4639.9	40°	3899.8	2690.7	810.8	506.6	445.7	411.8	393.4	391.3	394.8	378.5
5100.5	42.5°	4246.5	2861.9	825.0	501.6	430.9	393.4	375.7	375.7	372.9	350.2
5587.3	45°	4621.5	3059.3	839.1	489.6	413.2	375.0	361.5	356.6	344.6	322.6
6076.9	47.5°	4999.3	3260.2	849.7	467.7	392.0	359.4	347.4	336.1	318.4	298.6
6557.3	50°	5358.0	3440.7	838.4	435.1	367.9	344.6	331.8	316.3	297.2	283.7
7012.2	52.5°	5678.5	3597.0	790.3	396.9	342.4	329.0	317.7	301.4	285.8	271.7
7422.6	55°	5957.3	3723.7	705.4	360.8	319.8	315.6	304.2	283.7	262.5	250.5
7829.4	57.5°	6224.8	3819.9	599.3	331.1	299.3	300.7	283.7	265.3	245.5	232.8
8377.7	60°	6580.6	3948.7	491.7	303.5	277.3	281.6	263.2	249.8	225.0	208.7
9318.0	62.5°	7149.5	4148.9	390.6	269.6	251.9	253.3	245.5	229.2	199.5	180.4
10014.9	65°	7600.9	4075.3	307.8	232.8	222.9	225.0	225.0	207.3	175.5	153.5
10052.4	67.5°	7549.9	3489.5	245.5	196.7	195.3	196.7	201.6	186.8	155.7	138.0
9286.9	70°	6954.9	2775.6	196.7	163.4	169.8	166.3	180.4	170.5	140.1	122.4
7199.7	72.5°	5675.0	1999.4	150.0	135.1	130.2	135.8	162.7	153.5	116.7	96.9
3813.5	75°	3316.1	1066.9	111.8	106.8	94.1	113.2	144.3	130.9	89.1	71.5
1168.8	77.5°	1079.7	372.2	82.1	78.5	70.0	91.3	123.1	110.4	72.9	56.6
342.4	80°	289.4	112.5	55.9	51.6	45.3	67.9	97.6	87.7	52.4	36.8
147.2	82.5°	116.0	47.4	32.5	29.0	24.8	46.7	77.1	70.8	38.9	23.3
46.0	85°	37.5	15.6	12.0	9.2	11.3	29.0	46.0	48.1	27.6	12.0
7.1	87.5°	5.0	2.1	2.1	2.8	2.1	5.0	14.2	13.4	7.8	1.4
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

180°
1628.0
1435.6
1161.7
898.5
733.7
673.6
653.0
629.7
597.1
555.4
510.1
466.3
431.6
408.2
390.6
392.0
379.2
350.2
321.9
297.9
281.6
270.3
249.0
231.4
206.6
179.0
151.4
135.1
120.3
94.8
69.3
54.5
36.1
23.3
9.2
0.0
0.0

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