

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: P940327

Luminaire Tested: **GALN-SB3B-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15191 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

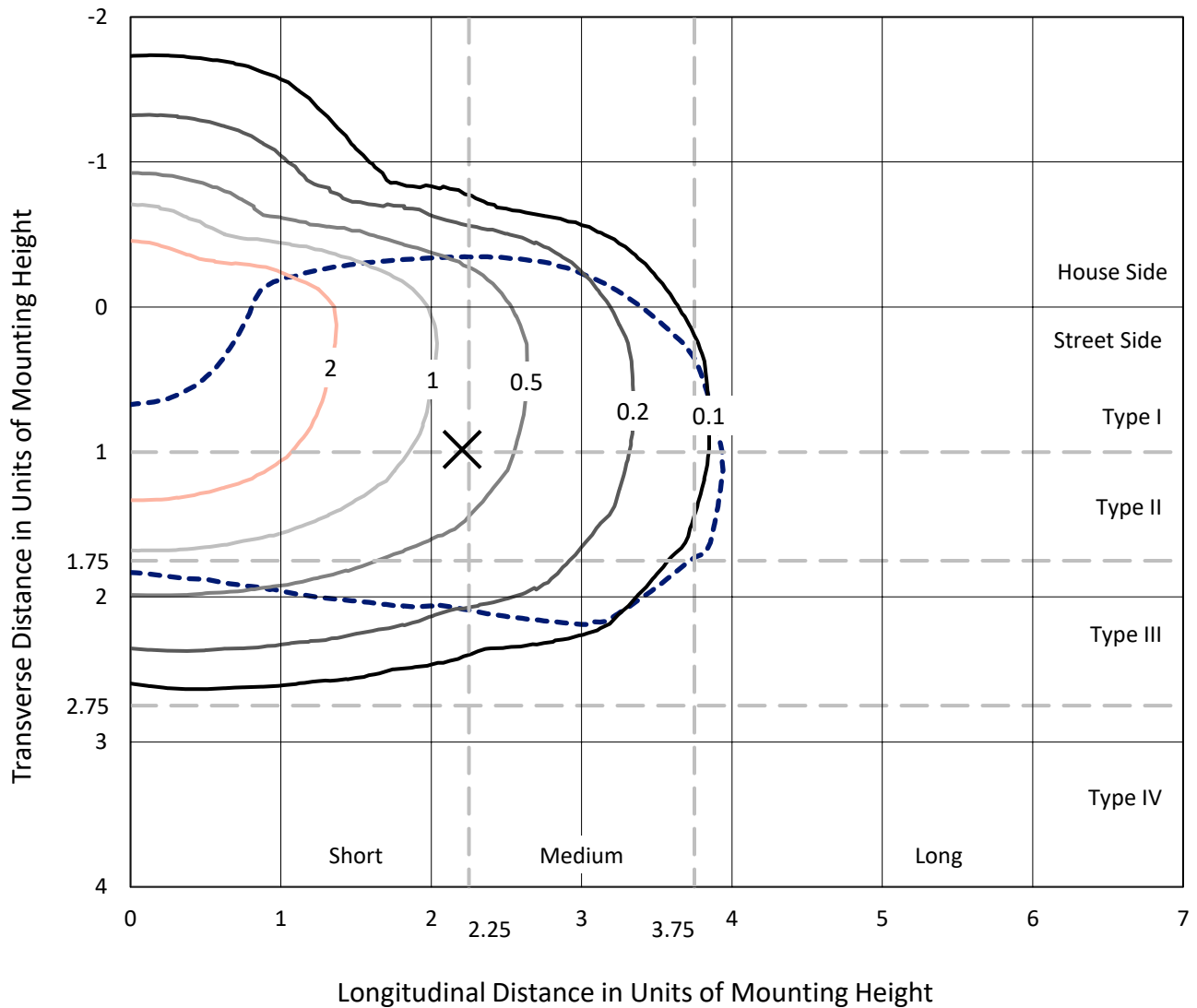
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

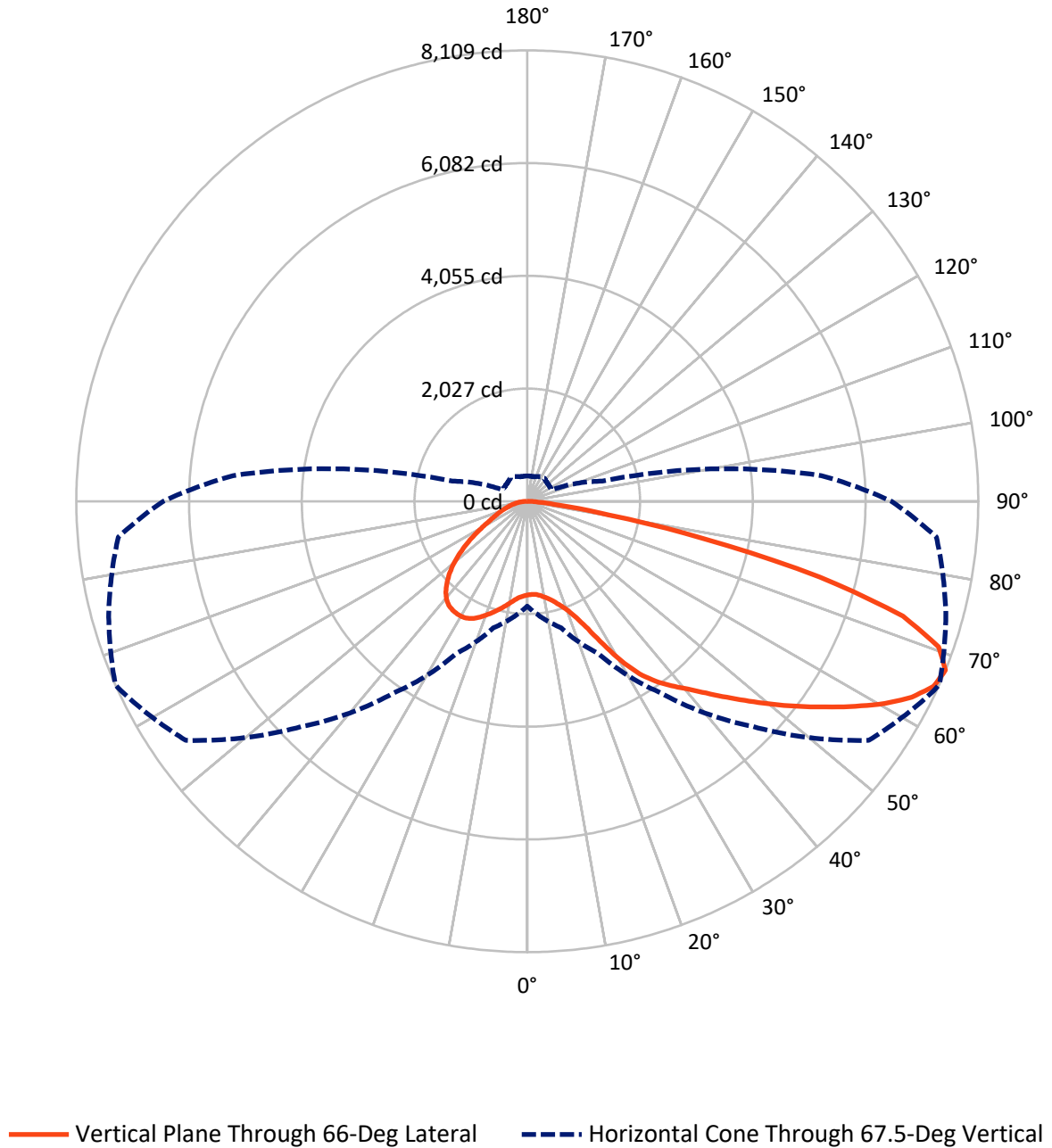
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3777.2	0.0	3777.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	11413.8	0.0	11413.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	15191.0	0.0	15191.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	1.1
10°-20°	551.9	3.6
20°-30°	1063.8	7.0
30°-40°	1865.2	12.3
40°-50°	2772.9	18.3
50°-60°	3514.9	23.1
60°-70°	3439.3	22.6
70°-80°	1640.6	10.8
80°-90°	175.3	1.2
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°	15191.0	100.0
0°-180°	15191.0	100.0

Coefficient of Utilization



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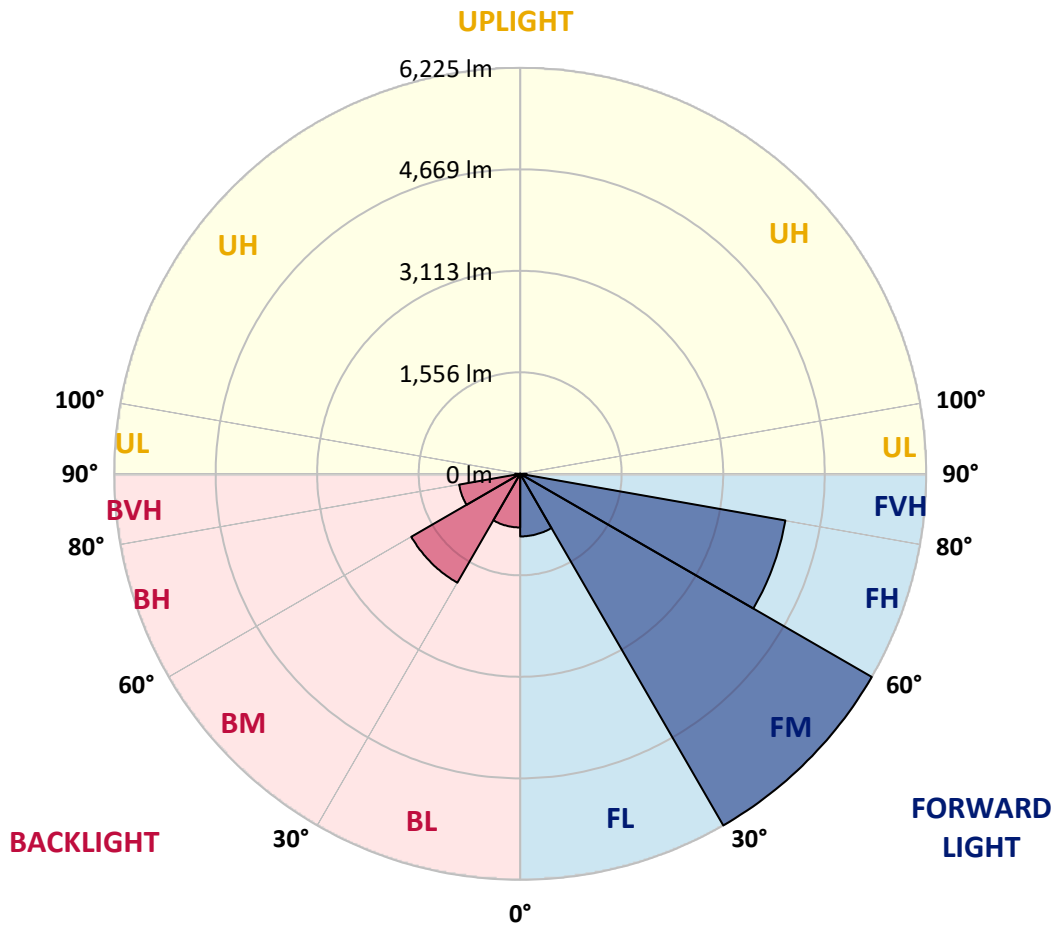
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	959.9	6.3			
FM (30°-60°)	6225.1	41.0			
FH (60°-80°)	4129.3	27.2			G2/5000
FVH (80°-90°)	99.4	0.7			G1/100
BL (0°-30°)	822.8	5.4	B2/1000		
BM (30°-60°)	1927.9	12.7	B2/2500		
BH (60°-80°)	950.5	6.3	B2/1000		G2/1000
BVH (80°-90°)	75.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9
2.5°	1667.3	1676.9	1674.5	1670.5	1669.7	1671.3	1673.7	1676.1	1675.3	1679.3
5°	1662.5	1672.1	1671.3	1671.3	1674.5	1680.9	1684.9	1688.9	1684.9	1689.7
7.5°	1665.7	1672.9	1676.1	1679.3	1687.3	1699.2	1708.8	1717.6	1712.8	1718.4
10°	1706.4	1712.0	1715.2	1715.2	1720.8	1734.4	1743.9	1759.9	1755.9	1764.7
12.5°	1780.7	1786.2	1786.2	1783.1	1787.0	1795.8	1799.0	1816.6	1809.4	1823.8
15°	1871.6	1882.8	1874.0	1868.5	1870.1	1878.8	1878.0	1891.6	1884.4	1896.4
17.5°	1972.2	1986.6	1972.2	1971.4	1968.2	1977.8	1978.6	1990.6	1977.8	1986.6
20°	2091.1	2111.1	2099.1	2103.1	2095.9	2099.9	2103.9	2121.5	2101.5	2107.9
22.5°	2258.7	2282.7	2269.9	2285.1	2280.3	2277.1	2276.3	2307.4	2276.3	2278.7
25°	2503.0	2531.7	2509.4	2530.1	2530.1	2540.5	2552.5	2592.4	2540.5	2525.3
27.5°	2863.7	2892.5	2848.6	2861.3	2857.4	2882.9	2870.1	2969.1	2913.2	2888.5
30°	3297.9	3349.0	3266.0	3262.8	3258.8	3299.5	3317.9	3383.3	3326.7	3301.9
32.5°	3767.2	3820.7	3721.7	3693.0	3677.8	3702.6	3687.4	3740.1	3701.0	3662.7
35°	4263.7	4316.4	4222.2	4166.3	4105.7	4053.8	3999.5	4013.1	3976.4	3918.1
37.5°	4733.0	4829.6	4729.8	4669.9	4558.2	4456.8	4305.2	4242.1	4207.8	4154.3
40°	5211.1	5266.2	5190.3	5139.3	5017.9	4859.1	4616.5	4483.2	4436.9	4385.0
42.5°	5563.1	5615.7	5575.0	5539.9	5444.9	5260.6	4946.9	4780.1	4713.0	4654.8
45°	5842.4	5881.5	5856.0	5868.8	5828.0	5649.3	5289.3	5098.5	5029.1	4958.1
47.5°	5955.0	5996.5	6037.2	6113.0	6182.4	6050.7	5657.2	5443.3	5369.9	5297.3
50°	5942.2	5984.5	6102.6	6263.8	6479.3	6435.4	6045.1	5810.5	5742.6	5659.6
52.5°	5840.0	5887.9	6039.6	6307.7	6650.9	6723.6	6440.2	6189.6	6125.8	6026.8
55°	5571.8	5600.6	5828.0	6208.0	6691.6	6924.7	6827.3	6593.5	6529.6	6391.5
57.5°	5074.6	5116.1	5447.3	5939.0	6589.5	7061.2	7167.3	7018.1	6956.6	6757.9
60°	4425.7	4492.0	4871.1	5487.2	6329.3	7060.4	7476.2	7435.5	7384.4	7118.6
62.5°	3691.4	3768.0	4132.8	4848.7	5874.3	6860.1	7669.4	7785.1	7758.8	7451.5
65°	2835.0	2887.7	3250.8	4022.6	5166.4	6429.9	7691.7	8023.7	8028.5	7704.5
67.5°	1887.6	2039.3	2354.5	3018.6	4218.2	5726.7	7495.4	8062.9	8109.1	7791.5
70°	921.1	1120.6	1429.5	1961.8	3018.6	4648.4	6982.2	7742.0	7845.0	7537.7
72.5°	382.3	447.0	615.4	968.1	1732.8	3136.7	5951.0	6872.0	7062.8	6678.9
75°	257.8	279.4	352.0	496.4	789.4	1546.8	4291.6	5124.1	5431.4	5044.3
77.5°	198.7	212.3	256.2	347.2	469.3	585.0	2297.1	3088.0	3246.9	3005.8
80°	156.4	166.8	191.6	253.0	332.8	312.9	783.0	1399.1	1490.9	1250.7
82.5°	135.7	139.7	137.3	171.6	221.1	182.8	257.0	516.4	569.9	413.4
85°	98.2	109.3	114.1	106.2	117.3	92.6	105.4	182.8	201.1	179.6
87.5°	39.9	59.1	72.6	68.6	43.1	26.3	32.7	53.5	61.5	67.0
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°
1684.9	0°	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9
1685.7	2.5°	1686.5	1692.1	1696.1	1700.8	1704.0	1708.8	1718.4	1724.0	1724.8	1728.8
1698.5	5°	1701.6	1709.6	1718.4	1731.2	1745.5	1757.5	1775.9	1788.6	1793.4	1797.4
1729.6	7.5°	1734.4	1745.5	1761.5	1783.9	1804.6	1820.6	1842.9	1858.1	1873.2	1878.8
1779.1	10°	1783.1	1799.0	1822.2	1852.5	1874.8	1895.6	1918.7	1931.5	1946.7	1953.1
1838.1	12.5°	1843.7	1860.5	1890.8	1933.1	1953.9	1968.2	1976.2	1973.0	1976.2	1981.8
1909.2	15°	1913.2	1931.5	1965.8	2011.3	2025.7	2012.9	1995.4	1979.4	1977.0	1978.6
1995.4	17.5°	1995.4	2008.9	2048.8	2087.1	2076.8	2024.1	1985.8	1960.2	1947.5	1943.5
2105.5	20°	2110.3	2110.3	2143.0	2167.0	2097.5	2008.1	1948.3	1906.8	1880.4	1869.3
2255.6	22.5°	2250.0	2237.2	2258.0	2241.2	2093.5	1963.4	1880.4	1808.6	1768.7	1752.7
2465.5	25°	2427.2	2412.0	2406.4	2302.6	2064.8	1892.4	1757.5	1670.5	1635.4	1626.6
2768.0	27.5°	2694.5	2656.2	2583.6	2336.2	2012.1	1780.7	1613.8	1533.2	1513.3	1514.1
3156.7	30°	3050.5	2973.9	2795.9	2341.8	1925.9	1622.6	1467.0	1409.5	1399.9	1403.9
3483.1	32.5°	3380.1	3307.5	3013.0	2316.2	1793.4	1467.8	1335.3	1297.0	1282.6	1287.4
3732.1	35°	3638.7	3618.8	3214.1	2280.3	1630.6	1322.5	1217.2	1184.4	1156.5	1150.1
3966.8	37.5°	3883.0	3875.0	3365.0	2230.0	1469.4	1219.6	1122.2	1079.1	1038.4	1016.0
4226.2	40°	4151.1	4143.2	3463.9	2152.6	1326.5	1130.2	1036.8	980.1	929.8	889.1
4519.9	42.5°	4452.8	4405.8	3511.0	2041.7	1205.2	1054.3	967.4	890.7	824.5	787.0
4851.9	45°	4782.5	4676.3	3510.2	1900.4	1103.0	984.9	893.1	784.6	723.1	688.0
5192.7	47.5°	5132.1	4934.9	3467.1	1743.9	1004.1	908.3	778.2	695.2	654.5	632.9
5563.1	50°	5492.8	5176.8	3393.7	1564.4	902.7	821.3	706.4	649.7	618.6	598.6
5930.2	52.5°	5832.0	5396.3	3305.1	1360.8	799.7	736.7	674.4	630.5	597.8	575.5
6286.2	55°	6147.3	5585.4	3179.8	1152.5	715.9	680.0	659.3	622.6	585.0	558.7
6647.7	57.5°	6427.5	5708.3	2963.5	957.0	656.1	640.9	643.3	609.0	565.9	543.5
7003.7	60°	6660.5	5798.5	2643.5	775.8	607.4	602.6	618.6	583.4	533.2	507.6
7304.6	62.5°	6800.2	5796.9	2250.8	635.3	565.9	567.5	585.8	551.5	500.4	476.5
7461.9	65°	6788.2	5654.9	1819.8	543.5	526.0	527.6	551.5	516.4	473.3	458.9
7382.8	67.5°	6548.0	5308.5	1396.0	483.7	482.1	489.3	517.2	492.5	456.5	454.9
6911.9	70°	5897.5	4589.3	1005.7	435.8	436.6	447.0	483.7	477.3	447.8	451.0
5811.3	72.5°	4729.0	3499.1	675.2	385.5	386.3	403.1	451.7	465.3	439.0	481.3
4123.2	75°	3149.5	2182.1	434.2	332.0	332.8	354.4	423.8	442.2	415.0	479.7
2145.4	77.5°	1513.3	980.9	314.5	279.4	279.4	299.3	366.3	395.9	353.6	372.7
689.6	80°	522.8	368.7	247.4	225.1	220.3	233.9	308.9	343.2	304.9	280.9
225.1	82.5°	205.9	191.6	198.7	174.8	158.8	167.6	240.2	283.3	224.3	202.7
126.9	85°	118.1	124.5	140.5	115.7	91.8	103.0	176.4	203.5	169.2	149.3
41.5	87.5°	31.9	43.9	64.6	59.9	41.5	43.9	83.8	112.5	97.4	75.0
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>
1684.9
1728.0
1796.6
1879.6
1956.3
1983.4
1984.2
1949.1
1866.9
1750.3
1628.2
1516.5
1417.5
1293.8
1154.9
1016.8
893.1
789.4
686.4
628.1
591.4
565.9
548.3
529.2
496.4
469.3
458.1
457.3
450.2
487.7
483.7
341.6
263.4
201.9
152.4
77.4
0.0

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