

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: P940177

Luminaire Tested: **GALN-SB3A-840-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940177
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-SB3A-840-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12882 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

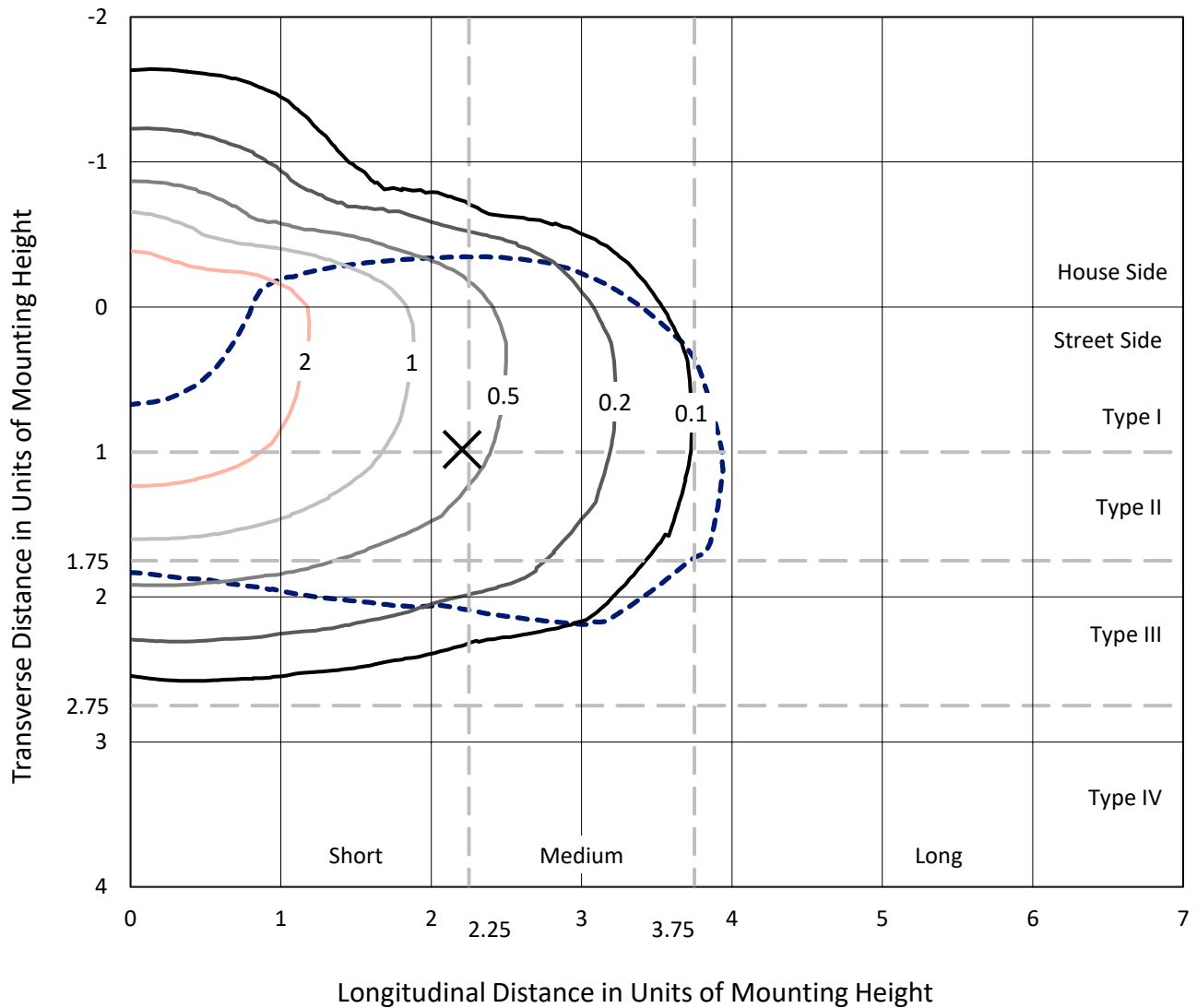
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

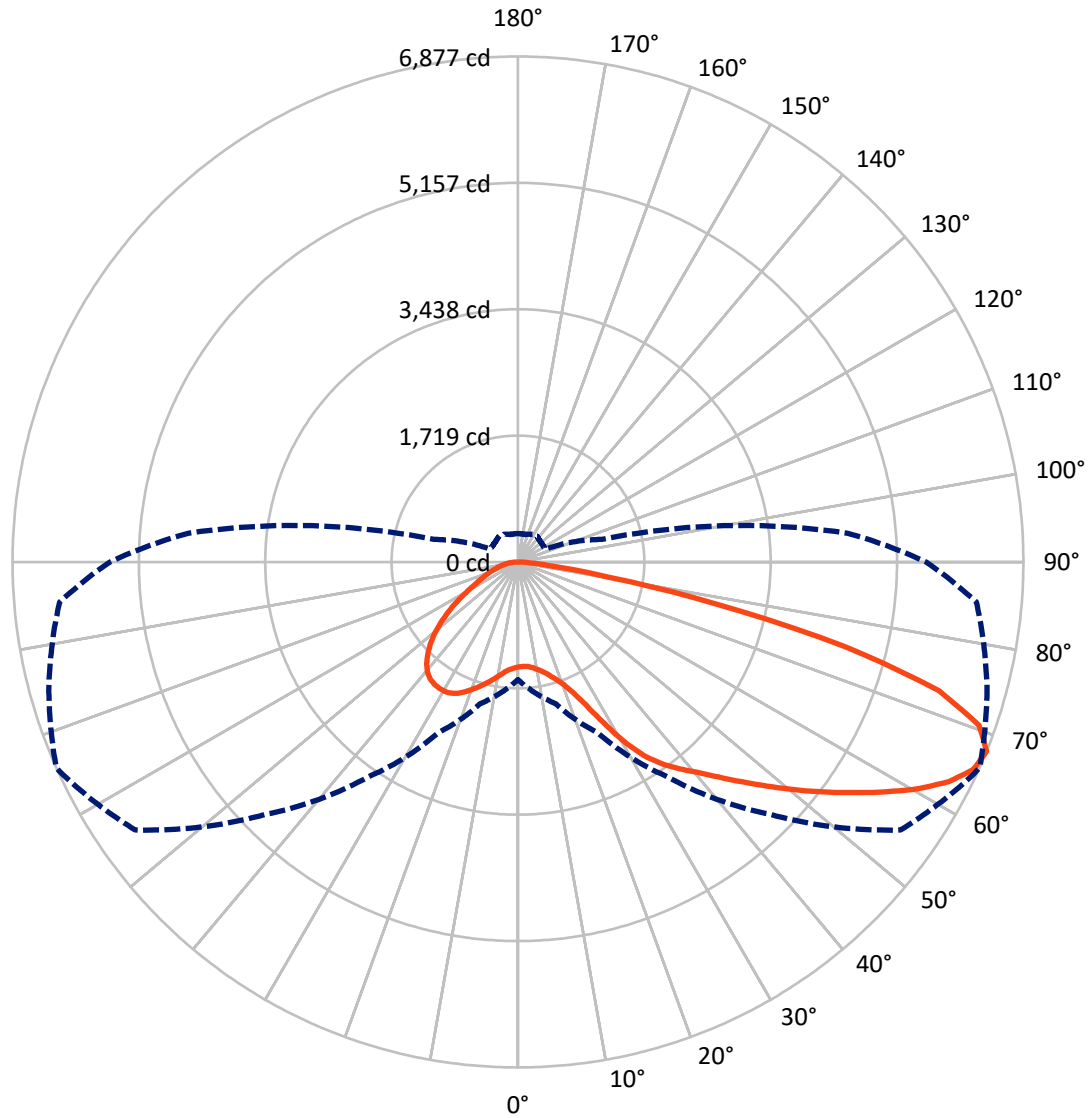
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3203.1	0.0	3203.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	9678.9	0.0	9678.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	12882.0	0.0	12882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	1.1
10°-20°	468.0	3.6
20°-30°	902.1	7.0
30°-40°	1581.7	12.3
40°-50°	2351.4	18.3
50°-60°	2980.7	23.1
60°-70°	2916.5	22.6
70°-80°	1391.2	10.8
80°-90°	148.7	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°	12882.0	100.0
0°-180°	12882.0	100.0

Coefficient of Utilization



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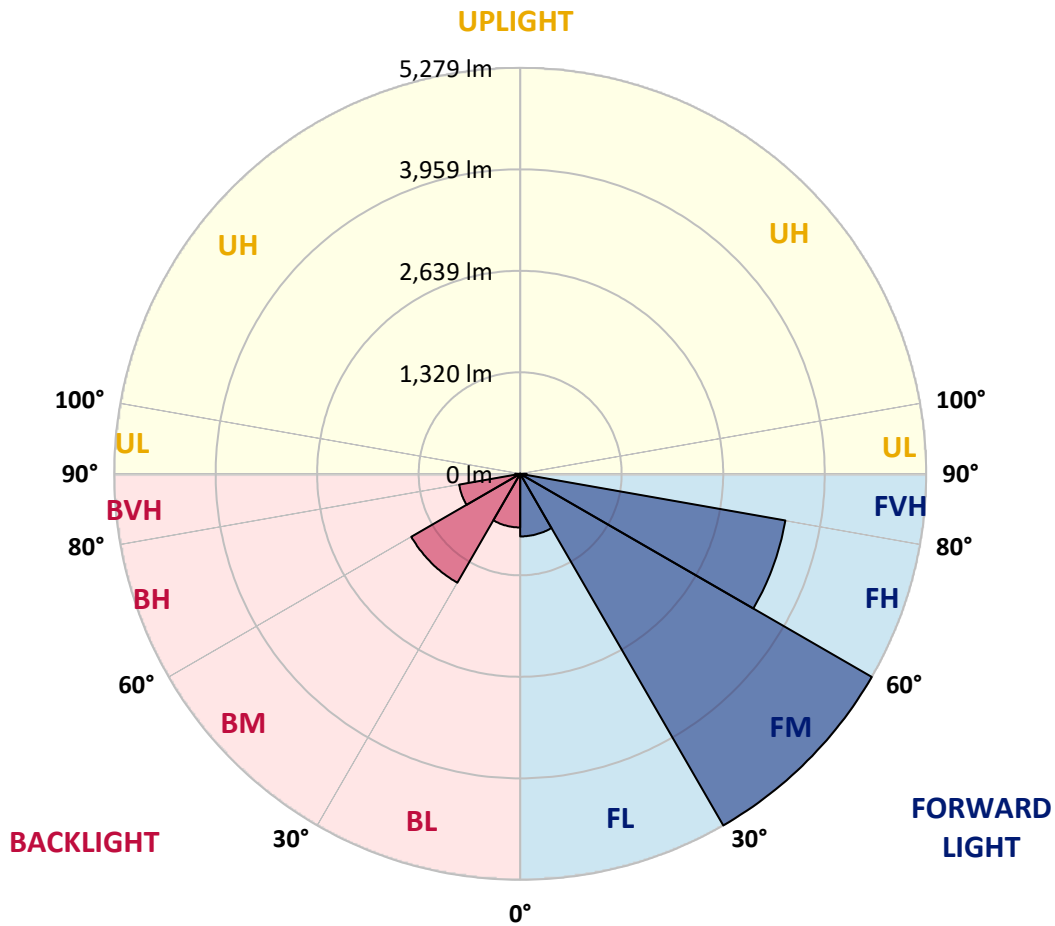
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	814.0	6.3			
FM (30°-60°)	5278.9	41.0			
FH (60°-80°)	3501.7	27.2			G2/5000
FVH (80°-90°)	84.3	0.7			G1/100
BL (0°-30°)	697.7	5.4	B2/1000		
BM (30°-60°)	1634.9	12.7	B2/2500		
BH (60°-80°)	806.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	64.4	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°	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8
2.5°	1413.9	1422.0	1420.0	1416.6	1415.9	1417.3	1419.3	1421.3	1420.7	1424.0
5°	1409.8	1418.0	1417.3	1417.3	1420.0	1425.4	1428.8	1432.2	1428.8	1432.8
7.5°	1412.5	1418.6	1421.3	1424.0	1430.8	1441.0	1449.1	1456.5	1452.5	1457.2
10°	1447.1	1451.8	1454.5	1454.5	1459.2	1470.7	1478.9	1492.4	1489.0	1496.5
12.5°	1510.0	1514.7	1514.7	1512.0	1515.4	1522.9	1525.6	1540.5	1534.4	1546.6
15°	1587.2	1596.6	1589.2	1584.5	1585.8	1593.3	1592.6	1604.1	1598.0	1608.1
17.5°	1672.4	1684.6	1672.4	1671.8	1669.1	1677.2	1677.9	1688.0	1677.2	1684.6
20°	1773.3	1790.2	1780.1	1783.4	1777.4	1780.7	1784.1	1799.0	1782.1	1787.5
22.5°	1915.4	1935.7	1924.9	1937.8	1933.7	1931.0	1930.3	1956.7	1930.3	1932.3
25°	2122.5	2146.9	2127.9	2145.5	2145.5	2154.3	2164.5	2198.3	2154.3	2141.5
27.5°	2428.5	2452.8	2415.6	2426.4	2423.0	2444.7	2433.9	2517.8	2470.4	2449.4
30°	2796.7	2840.0	2769.6	2766.9	2763.5	2798.0	2813.6	2869.1	2821.0	2800.0
32.5°	3194.6	3240.0	3156.0	3131.7	3118.8	3139.8	3126.9	3171.6	3138.5	3106.0
35°	3615.6	3660.3	3580.4	3533.0	3481.6	3437.6	3391.6	3403.1	3372.0	3322.5
37.5°	4013.6	4095.5	4010.9	3960.1	3865.4	3779.4	3650.8	3597.3	3568.2	3522.9
40°	4419.0	4465.7	4401.4	4358.1	4255.2	4120.5	3914.8	3801.7	3762.5	3718.5
42.5°	4717.5	4762.2	4727.6	4697.9	4617.3	4461.0	4195.0	4053.5	3996.7	3947.3
45°	4954.4	4987.5	4965.9	4976.7	4942.2	4790.6	4485.3	4323.6	4264.7	4204.5
47.5°	5049.8	5085.0	5119.5	5183.8	5242.7	5131.0	4797.4	4616.0	4553.7	4492.1
50°	5039.0	5074.9	5175.0	5311.7	5494.5	5457.3	5126.3	4927.3	4869.8	4799.4
52.5°	4952.4	4993.0	5121.6	5349.0	5640.0	5701.6	5461.3	5248.8	5194.7	5110.7
55°	4724.9	4749.3	4942.2	5264.4	5674.5	5872.2	5789.6	5591.3	5537.1	5420.0
57.5°	4303.3	4338.5	4619.4	5036.3	5587.9	5987.9	6077.9	5951.3	5899.2	5730.7
60°	3753.0	3809.2	4130.7	4653.2	5367.2	5987.2	6339.8	6305.3	6262.0	6036.6
62.5°	3130.3	3195.3	3504.6	4111.7	4981.5	5817.3	6503.6	6601.8	6579.4	6318.9
65°	2404.1	2448.8	2756.7	3411.2	4381.1	5452.5	6522.6	6804.2	6808.2	6533.4
67.5°	1600.7	1729.3	1996.6	2559.8	3577.0	4856.2	6356.1	6837.3	6876.6	6607.2
70°	781.1	950.3	1212.2	1663.6	2559.8	3941.8	5920.9	6565.2	6652.5	6392.0
72.5°	324.2	379.0	521.8	821.0	1469.4	2659.9	5046.4	5827.5	5989.3	5663.7
75°	218.6	236.9	298.5	421.0	669.4	1311.7	3639.3	4345.2	4605.8	4277.6
77.5°	168.5	180.0	217.3	294.4	398.0	496.1	1947.9	2618.6	2753.3	2548.9
80°	132.7	141.5	162.4	214.6	282.2	265.3	664.0	1186.5	1264.3	1060.6
82.5°	115.1	118.4	116.4	145.5	187.5	155.0	217.9	437.9	483.3	350.6
85°	83.2	92.7	96.8	90.0	99.5	78.5	89.3	155.0	170.6	152.3
87.5°	33.8	50.1	61.6	58.2	36.5	22.3	27.7	45.3	52.1	56.9
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°
1428.8	0°	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8
1429.5	2.5°	1430.1	1434.9	1438.3	1442.3	1445.0	1449.1	1457.2	1461.9	1462.6	1466.0
1440.3	5°	1443.0	1449.8	1457.2	1468.0	1480.2	1490.4	1505.9	1516.8	1520.8	1524.2
1466.7	7.5°	1470.7	1480.2	1493.8	1512.7	1530.3	1543.8	1562.8	1575.7	1588.5	1593.3
1508.6	10°	1512.0	1525.6	1545.2	1570.9	1589.9	1607.5	1627.1	1637.9	1650.8	1656.2
1558.7	12.5°	1563.5	1577.7	1603.4	1639.3	1656.9	1669.1	1675.8	1673.1	1675.8	1680.6
1619.0	15°	1622.4	1637.9	1667.0	1705.6	1717.8	1707.0	1692.1	1678.5	1676.5	1677.9
1692.1	17.5°	1692.1	1703.6	1737.4	1769.9	1761.1	1716.4	1683.9	1662.3	1651.5	1648.1
1785.5	20°	1789.5	1789.5	1817.3	1837.6	1778.7	1702.9	1652.1	1616.9	1594.6	1585.1
1912.7	22.5°	1908.0	1897.1	1914.7	1900.5	1775.3	1665.0	1594.6	1533.7	1499.9	1486.3
2090.7	25°	2058.2	2045.4	2040.6	1952.6	1751.0	1604.8	1490.4	1416.6	1386.8	1379.4
2347.2	27.5°	2285.0	2252.5	2190.9	1981.1	1706.3	1510.0	1368.5	1300.2	1283.3	1283.9
2676.9	30°	2586.8	2521.9	2370.9	1985.8	1633.2	1376.0	1244.0	1195.3	1187.2	1190.5
2953.7	32.5°	2866.4	2804.8	2555.0	1964.2	1520.8	1244.7	1132.3	1099.8	1087.7	1091.7
3164.8	35°	3085.7	3068.7	2725.6	1933.7	1382.8	1121.5	1032.2	1004.4	980.7	975.3
3363.8	37.5°	3292.8	3286.0	2853.5	1891.1	1246.0	1034.2	951.6	915.1	880.6	861.6
3583.8	40°	3520.2	3513.4	2937.4	1825.4	1124.9	958.4	879.2	831.1	788.5	754.0
3832.9	42.5°	3776.0	3736.1	2977.4	1731.3	1022.0	894.1	820.3	755.3	699.2	667.4
4114.4	45°	4055.6	3965.5	2976.7	1611.5	935.4	835.2	757.4	665.3	613.2	583.4
4403.4	47.5°	4352.0	4184.8	2940.1	1478.9	851.4	770.2	659.9	589.5	555.0	536.7
4717.5	50°	4657.9	4389.9	2877.9	1326.6	765.5	696.5	599.0	550.9	524.5	507.6
5028.8	52.5°	4945.6	4576.0	2802.7	1154.0	678.2	624.7	571.9	534.7	506.9	488.0
5330.7	55°	5212.9	4736.4	2696.5	977.3	607.1	576.7	559.1	527.9	496.1	473.8
5637.3	57.5°	5450.5	4840.7	2513.1	811.5	556.4	543.5	545.5	516.4	479.9	460.9
5939.2	60°	5648.1	4917.2	2241.7	657.9	515.1	511.0	524.5	494.8	452.1	430.5
6194.3	62.5°	5766.6	4915.8	1908.7	538.8	479.9	481.2	496.8	467.7	424.4	404.1
6327.7	65°	5756.4	4795.3	1543.2	460.9	446.0	447.4	467.7	437.9	401.4	389.2
6260.7	67.5°	5552.7	4501.6	1183.8	410.2	408.8	414.9	438.6	417.6	387.1	385.8
5861.3	70°	5001.1	3891.8	852.8	369.5	370.2	379.0	410.2	404.7	379.7	382.4
4928.0	72.5°	4010.2	2967.2	572.6	326.9	327.6	341.8	383.1	394.6	372.3	408.1
3496.5	75°	2670.8	1850.4	368.2	281.6	282.2	300.5	359.4	375.0	352.0	406.8
1819.3	77.5°	1283.3	831.8	266.7	236.9	236.9	253.8	310.7	335.7	299.8	316.1
584.8	80°	443.3	312.7	209.8	190.9	186.8	198.3	261.9	291.0	258.5	238.2
190.9	82.5°	174.6	162.4	168.5	148.2	134.7	142.1	203.7	240.3	190.2	171.9
107.6	85°	100.2	105.6	119.1	98.1	77.8	87.3	149.6	172.6	143.5	126.6
35.2	87.5°	27.1	37.2	54.8	50.8	35.2	37.2	71.1	95.4	82.6	63.6
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>
1428.8
1465.3
1523.5
1593.9
1658.9
1681.9
1682.6
1652.8
1583.1
1484.3
1380.7
1286.0
1202.0
1097.1
979.4
862.3
757.4
669.4
582.1
532.7
501.5
479.9
465.0
448.7
421.0
398.0
388.5
387.8
381.7
413.5
410.2
289.7
223.4
171.2
129.3
65.7
0.0

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