

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: P952146

Luminaire Tested: **GALN-SB6A-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952146
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-SB6A-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23888 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

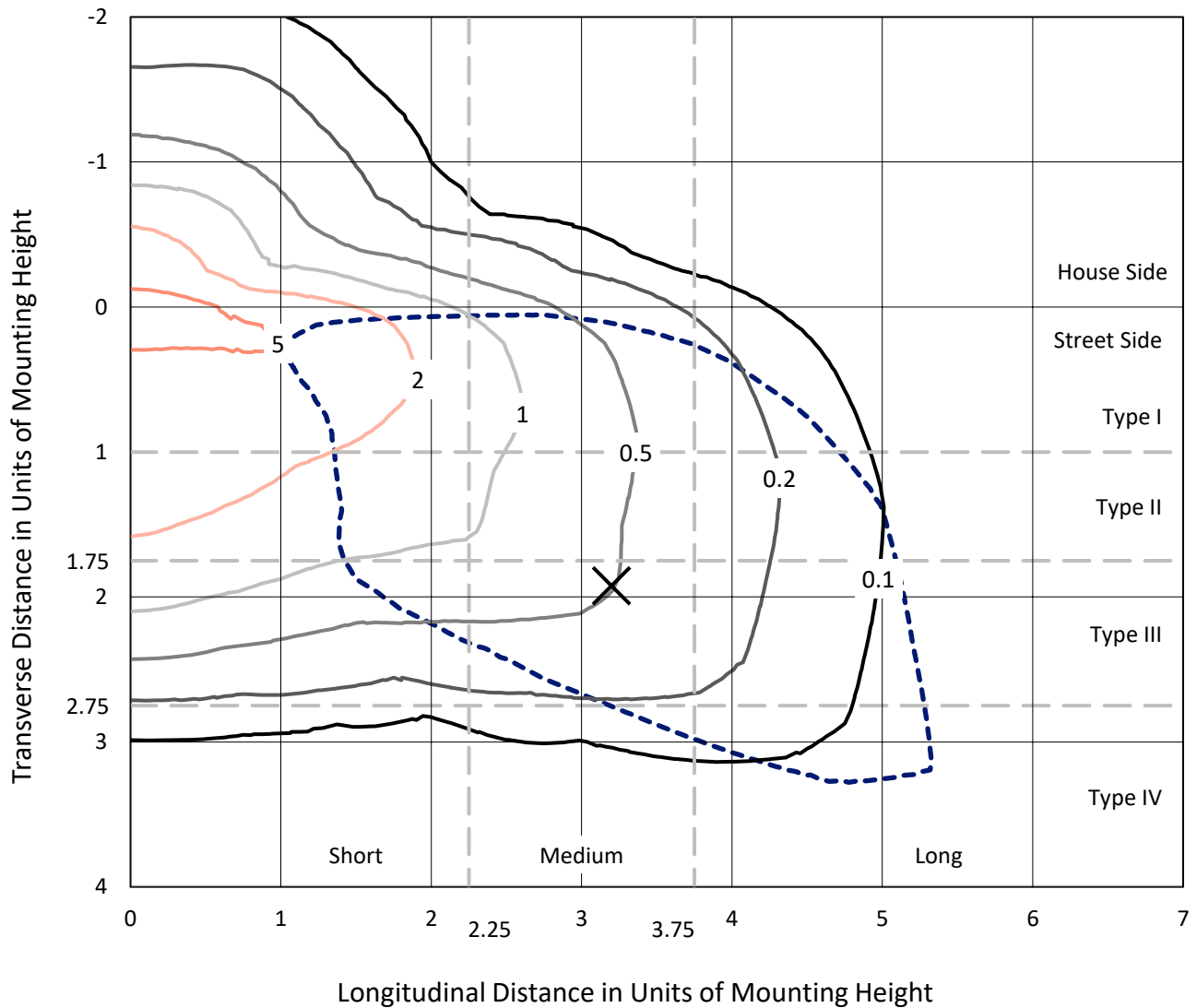
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

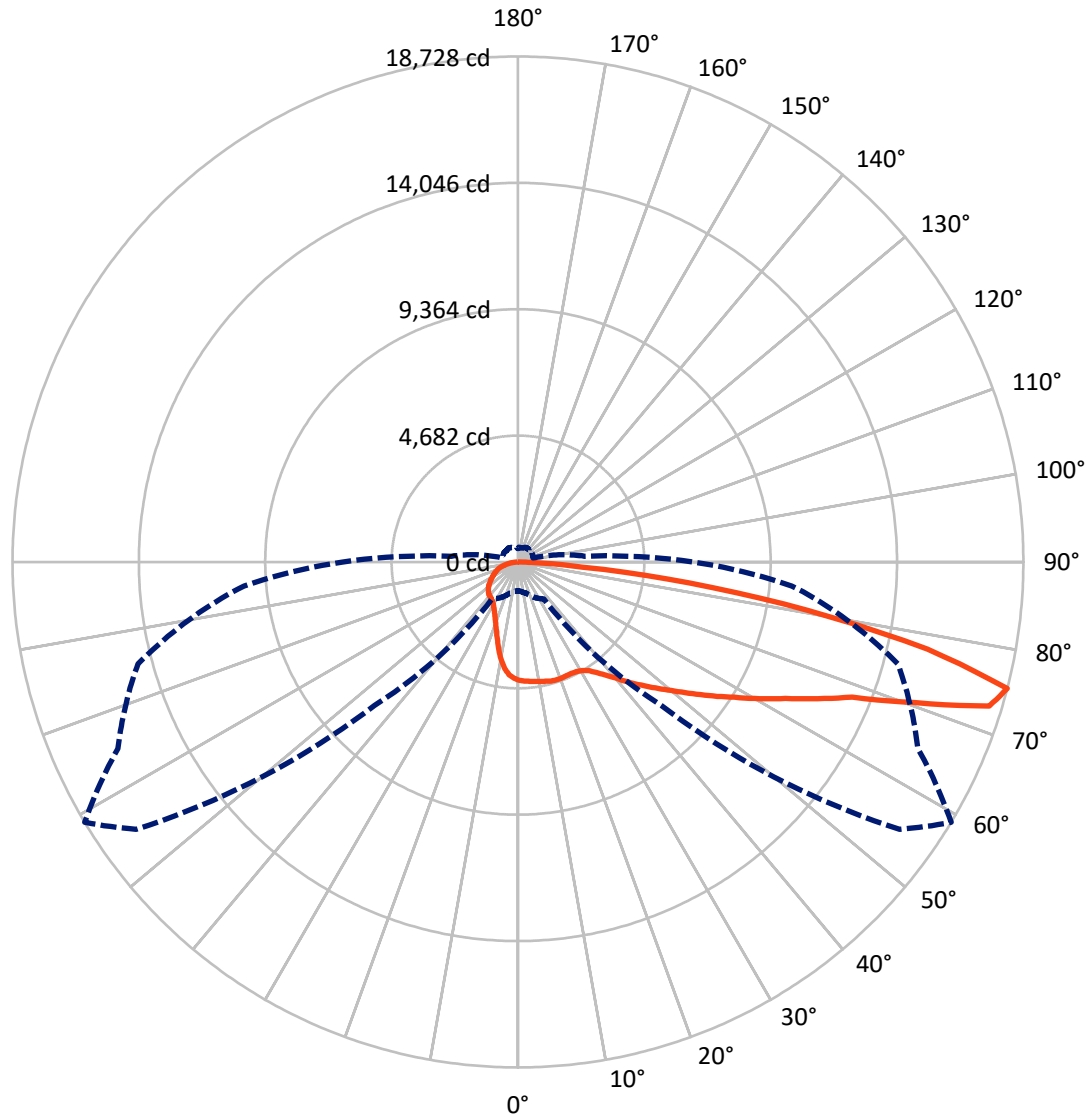
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	4480.4	0.0	4480.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19407.6	0.0	19407.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	23888.0	0.0	23888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.1	1.6
10°-20°	1004.9	4.2
20°-30°	1526.4	6.4
30°-40°	2268.9	9.5
40°-50°	3374.3	14.1
50°-60°	4580.2	19.2
60°-70°	5591.7	23.4
70°-80°	4388.3	18.4
80°-90°	760.2	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°	23888.0	100.0
0°-180°	23888.0	100.0

Coefficient of Utilization



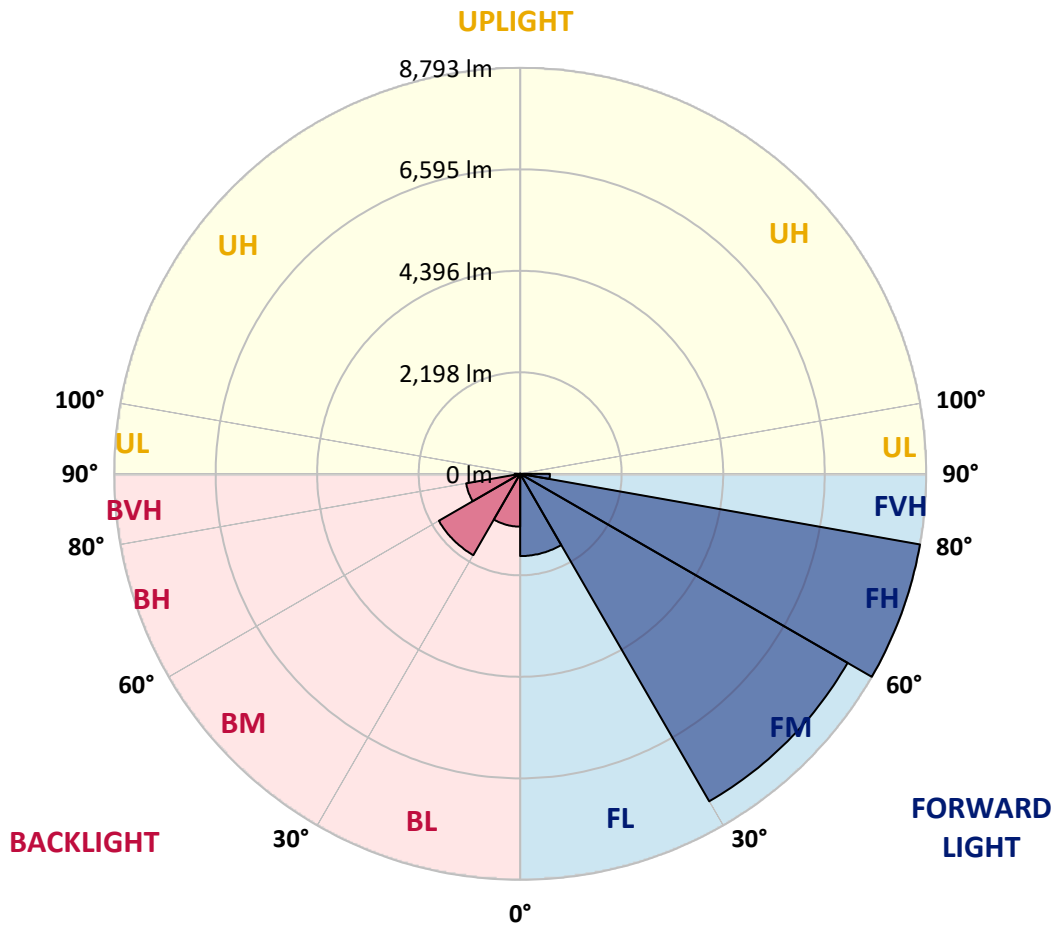
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1781.1	7.5			
FM (30°-60°)	8189.8	34.3			
FH (60°-80°)	8792.9	36.8			G4/12000
FVH (80°-90°)	643.8	2.7			G4/750
BL (0°-30°)	1143.3	4.8	B3/2500		
BM (30°-60°)	2033.6	8.5	B2/2500		
BH (60°-80°)	1187.0	5.0	B3/2500		G3/2500
BVH (80°-90°)	116.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6
2.5°	4421.9	4406.4	4421.9	4415.4	4412.9	4407.7	4409.0	4418.0	4412.9	4419.3
5°	4392.3	4383.3	4398.7	4394.9	4411.6	4414.1	4430.9	4441.1	4447.6	4448.8
7.5°	4343.5	4334.5	4356.3	4374.3	4410.3	4420.6	4455.3	4472.0	4481.0	4496.4
10°	4164.8	4161.0	4215.0	4283.1	4367.9	4420.6	4473.3	4501.5	4515.7	4556.8
12.5°	3848.7	3853.9	3924.5	4055.6	4225.2	4394.9	4493.8	4534.9	4556.8	4608.2
15°	3546.7	3545.5	3622.6	3762.6	4000.4	4281.8	4504.1	4574.8	4612.0	4687.9
17.5°	3372.0	3366.8	3420.8	3527.5	3748.5	4108.3	4478.4	4596.6	4676.3	4771.4
20°	3339.8	3329.6	3357.8	3410.5	3567.3	3918.1	4411.6	4596.6	4727.7	4851.1
22.5°	3456.8	3440.1	3428.5	3422.1	3491.5	3761.3	4335.8	4581.2	4803.5	4965.4
25°	3691.9	3666.2	3607.1	3549.3	3528.7	3690.7	4268.9	4577.3	4916.6	5119.6
27.5°	4072.3	4040.2	3920.7	3781.9	3657.3	3726.6	4239.4	4600.5	5041.2	5282.8
30°	4543.9	4509.2	4358.9	4145.6	3922.0	3860.3	4276.6	4668.6	5200.6	5500.0
32.5°	4966.7	4928.2	4799.7	4582.5	4280.5	4091.6	4394.9	4798.4	5451.2	5802.0
35°	5342.0	5297.0	5181.3	4980.9	4720.0	4416.7	4608.2	5028.4	5807.1	6292.9
37.5°	5709.5	5656.8	5530.9	5318.8	5136.3	4849.8	4902.5	5324.0	6280.0	6889.2
40°	6120.7	6044.9	5892.0	5682.5	5505.2	5357.4	5289.3	5686.3	6760.6	7554.8
42.5°	6519.1	6447.1	6264.6	6086.0	5863.7	5821.3	5737.7	6110.4	7286.2	8286.0
45°	6948.3	6862.2	6641.1	6415.0	6274.9	6129.7	6172.1	6534.5	7801.5	9031.3
47.5°	7350.5	7254.1	6993.2	6741.4	6664.3	6389.3	6570.5	7001.0	8337.4	9786.9
50°	7567.7	7472.6	7255.4	7027.9	6967.5	6709.2	7002.2	7513.7	8899.0	10540.0
52.5°	7748.8	7646.0	7362.0	7236.1	7218.1	7057.5	7534.2	8099.7	9460.5	11205.6
55°	7941.6	7827.2	7464.9	7351.8	7434.0	7448.1	8165.2	8764.0	10054.2	11854.6
57.5°	8163.9	8018.7	7563.8	7449.4	7644.8	7905.6	8890.0	9452.8	10637.6	12456.0
60°	8373.4	8226.9	7754.0	7604.9	7872.2	8436.4	9721.4	10286.8	11298.2	12991.9
62.5°	8414.5	8293.7	7905.6	7904.3	8180.6	9055.7	10705.7	11128.5	11875.1	13521.3
65°	7702.6	7626.8	7396.7	7892.8	8622.7	9947.6	11801.9	12205.4	12608.9	13983.9
67.5°	5862.4	5872.7	5856.0	6813.3	8265.4	11228.8	13388.9	13358.1	13514.9	14503.1
70°	2680.6	2741.0	3134.2	4703.3	6621.9	11376.5	16013.0	15613.4	14652.1	15175.2
72.5°	1448.3	1494.5	1655.1	2278.4	3981.1	10114.6	17974.0	18258.0	16164.6	15627.5
75°	1062.7	1088.4	1200.2	1448.3	1671.8	7517.5	17271.1	18728.3	16353.5	14572.5
77.5°	795.4	807.0	898.2	1147.5	855.8	3963.1	13800.1	15510.5	13999.3	11972.8
80°	577.0	589.8	657.9	861.0	600.1	1449.5	9476.0	10886.9	9587.8	7631.9
82.5°	398.4	403.5	433.1	586.0	418.9	562.9	5376.6	6384.1	5352.2	2678.0
85°	240.3	246.7	259.6	341.8	237.7	267.3	2320.8	2400.5	1599.9	640.0
87.5°	98.9	105.4	115.7	143.9	93.8	74.5	382.9	480.6	299.4	187.6
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°
4384.6	0°	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6
4397.4	2.5°	4391.0	4382.0	4357.6	4324.2	4293.4	4254.8	4238.1	4224.0	4211.1	4186.7
4432.1	5°	4418.0	4393.6	4328.0	4243.2	4146.9	4041.5	3938.7	3868.0	3807.6	3762.6
4472.0	7.5°	4459.1	4412.9	4293.4	4119.9	3898.8	3672.7	3468.3	3323.1	3213.9	3174.1
4528.5	10°	4501.5	4446.3	4238.1	3932.3	3550.6	3202.3	2931.2	2782.1	2694.7	2666.5
4595.3	12.5°	4551.6	4470.7	4152.0	3671.4	3161.2	2779.6	2543.1	2455.7	2410.8	2395.3
4677.6	15°	4624.9	4491.2	4022.2	3345.0	2789.8	2471.2	2318.2	2257.8	2234.7	2233.4
4762.4	17.5°	4680.2	4495.1	3820.5	2995.5	2504.6	2284.8	2158.9	2135.8	2151.2	2174.3
4845.9	20°	4741.8	4460.4	3555.7	2676.8	2304.1	2121.6	2068.9	2084.4	2121.6	2155.0
4956.4	22.5°	4785.5	4397.4	3235.8	2428.7	2130.6	2027.8	2025.2	2057.4	2077.9	2094.6
5086.2	25°	4824.1	4290.8	2896.5	2220.6	1988.0	1971.3	1999.5	1989.3	1975.1	1989.3
5216.0	27.5°	4852.3	4122.4	2593.2	2038.1	1887.7	1932.7	1916.0	1892.9	1891.6	1899.3
5368.9	30°	4843.4	3897.6	2343.9	1864.6	1817.1	1860.8	1820.9	1817.1	1813.2	1817.1
5599.0	32.5°	4843.4	3641.8	2152.5	1745.1	1772.1	1755.4	1751.5	1742.5	1727.1	1725.8
5911.2	35°	4870.3	3386.1	1988.0	1680.8	1734.8	1695.0	1697.6	1675.7	1643.6	1628.2
6325.0	37.5°	4925.6	3180.5	1824.8	1650.0	1669.3	1668.0	1657.7	1620.4	1563.9	1515.1
6841.6	40°	5059.2	3120.1	1713.0	1635.9	1638.4	1653.9	1626.9	1554.9	1426.4	1346.7
7365.9	42.5°	5268.7	3221.6	1688.6	1601.2	1617.9	1633.3	1580.6	1413.6	1322.3	1274.8
7915.9	45°	5534.7	3399.0	1741.2	1551.1	1569.0	1596.0	1439.3	1359.6	1318.5	1319.7
8460.8	47.5°	5871.4	3585.3	1838.9	1507.4	1498.4	1513.8	1345.4	1296.6	1240.1	1254.2
8983.8	50°	6260.8	3774.2	1931.4	1448.3	1420.0	1369.9	1285.0	1238.8	1166.8	1133.4
9488.8	52.5°	6682.3	3956.7	1968.7	1376.3	1335.2	1277.3	1243.9	1187.4	1100.0	1044.7
9965.6	55°	7081.9	4122.4	1927.6	1290.2	1250.4	1205.4	1200.2	1165.5	1071.7	994.6
10389.6	57.5°	7459.7	4261.2	1824.8	1202.8	1164.3	1137.3	1172.0	1155.3	1037.0	938.1
10790.6	60°	7779.7	4356.3	1675.7	1114.1	1087.2	1073.0	1125.7	1120.6	988.2	877.7
11150.4	62.5°	8034.1	4393.6	1511.2	1029.3	1022.9	997.2	1061.5	1061.5	926.5	818.6
11466.5	65°	8233.3	4357.6	1344.2	945.8	958.6	920.1	983.1	975.4	861.0	765.9
11830.2	67.5°	8409.4	4239.4	1159.1	863.6	893.1	844.3	900.8	882.8	789.0	713.2
12145.0	70°	8487.8	3964.4	948.4	781.3	817.3	769.7	818.6	785.2	708.1	656.7
11799.3	72.5°	7858.1	3294.9	746.6	695.2	726.1	687.5	729.9	691.4	620.7	597.5
10189.2	75°	6501.1	2472.4	574.4	601.4	624.5	595.0	623.2	595.0	530.7	547.4
7526.5	77.5°	4721.3	1669.3	439.5	502.5	512.7	497.3	521.7	489.6	431.8	427.9
3751.1	80°	2347.8	977.9	344.4	397.1	393.2	382.9	411.2	395.8	347.0	367.5
1012.6	82.5°	679.8	418.9	250.6	278.9	271.1	273.7	294.3	302.0	452.3	448.5
314.8	85°	213.3	164.5	150.4	155.5	147.8	151.6	173.5	344.4	318.7	186.3
97.7	87.5°	55.3	56.5	37.3	39.8	41.1	48.8	55.3	209.5	100.2	65.5
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>
4384.6
4175.1
3725.4
3104.7
2622.8
2399.2
2238.6
2183.3
2166.6
2103.6
1998.3
1912.2
1831.2
1742.5
1643.6
1531.8
1357.0
1274.8
1326.2
1290.2
1142.4
1043.5
994.6
932.9
873.8
814.7
760.7
708.1
646.4
578.3
499.9
408.6
363.7
458.8
201.8
69.4
0.0

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