

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: P950611

Luminaire Tested: **GALN-SB5A-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22522 lumens
Efficiency: N/A
Efficacy: 158.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

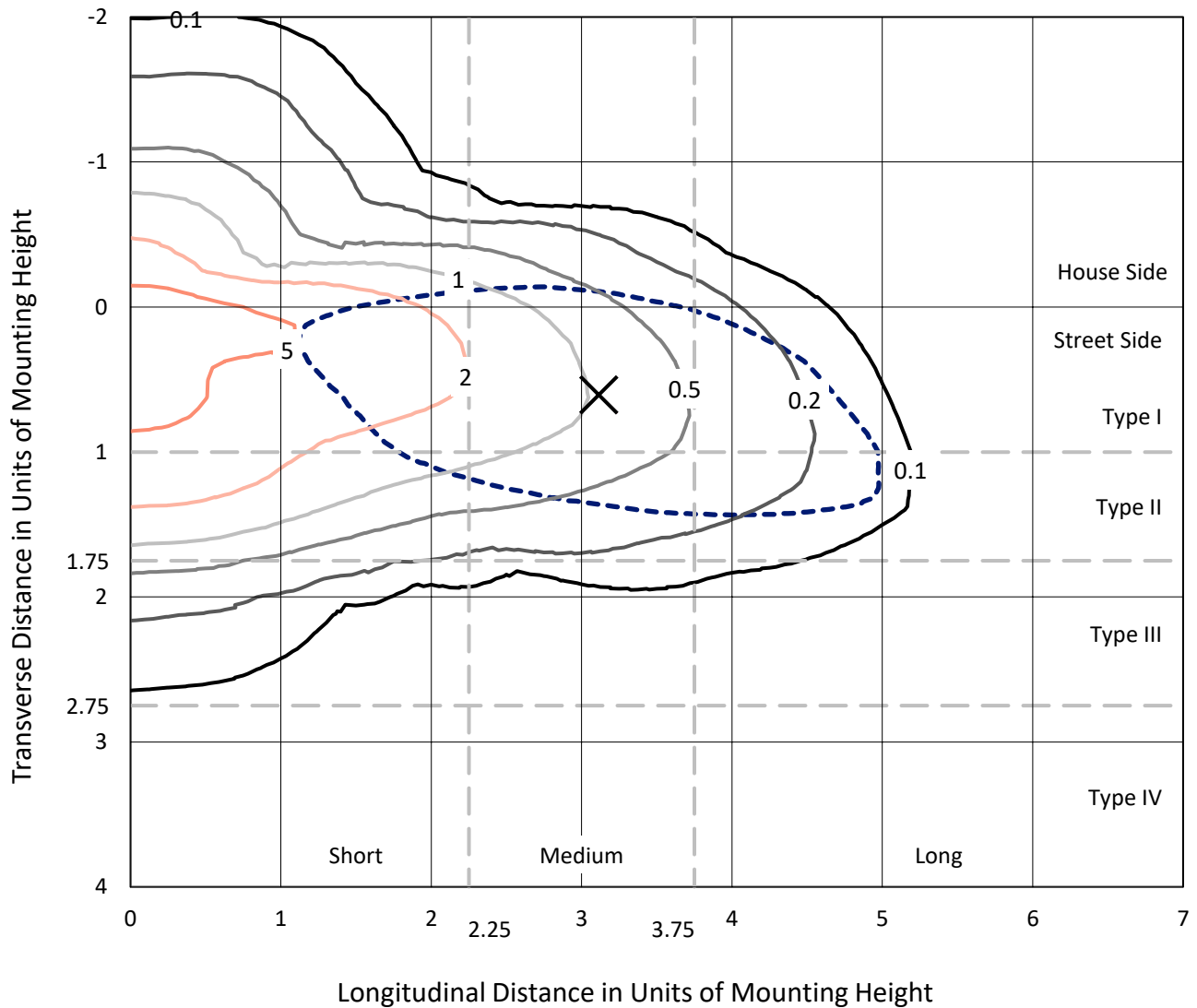
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

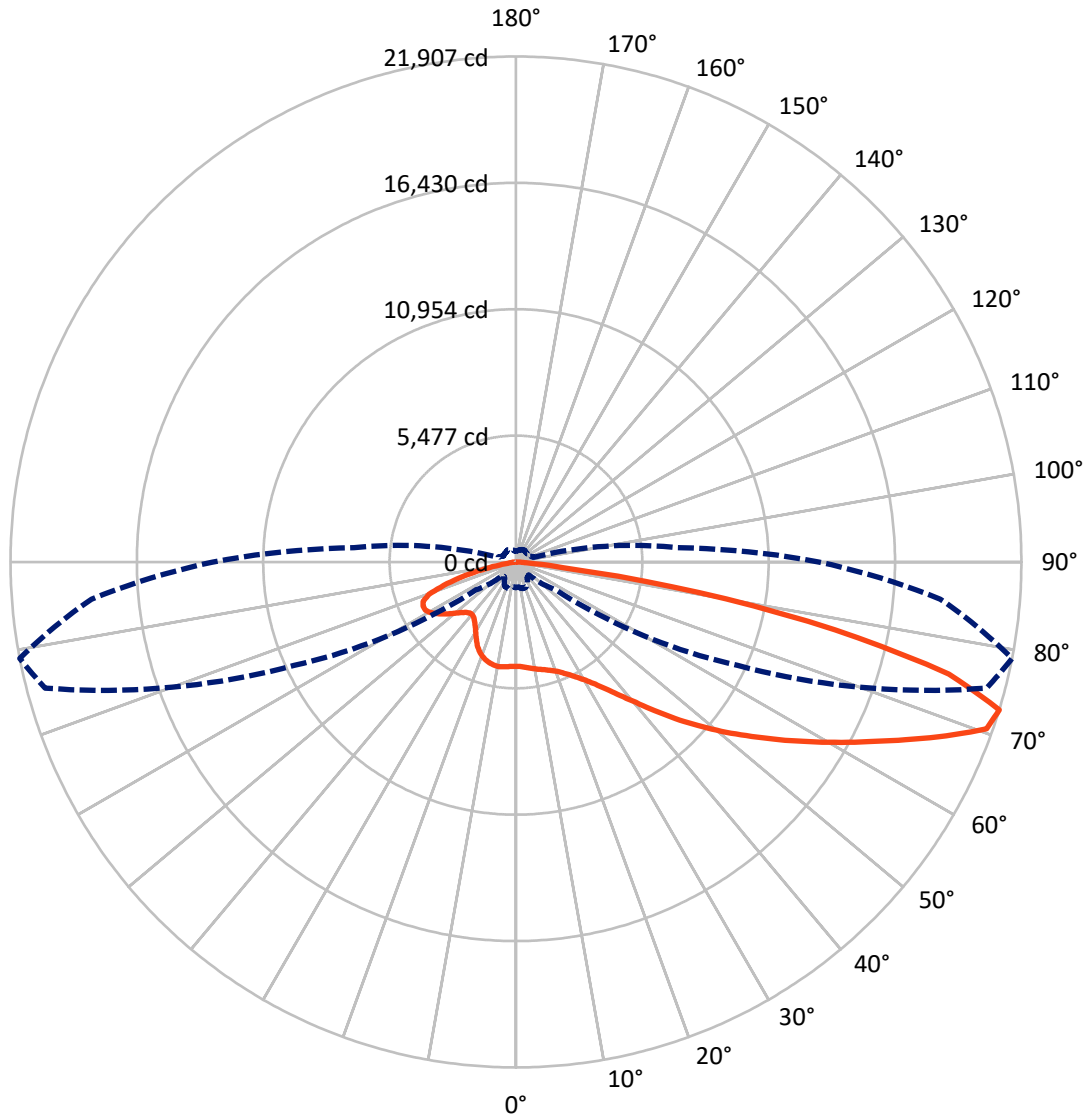
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4956.1	0.0	4956.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	17565.9	0.0	17565.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	22522.0	0.0	22522.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.4	1.8
10°-20°	1072.9	4.8
20°-30°	1731.3	7.7
30°-40°	2598.4	11.5
40°-50°	3686.0	16.4
50°-60°	4654.9	20.7
60°-70°	4727.7	21.0
70°-80°	3222.2	14.3
80°-90°	418.0	1.9
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°	22522.0	100.0
0°-180°	22522.0	100.0



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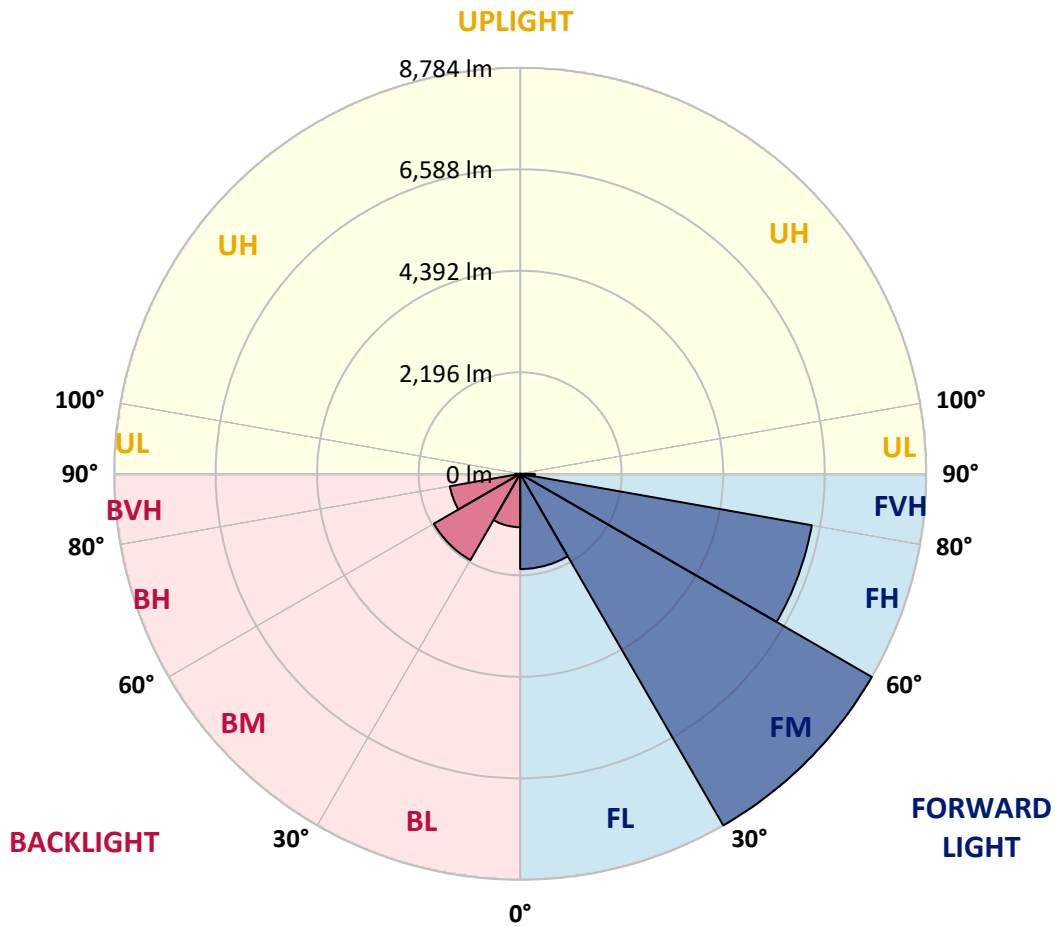
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2060.2	9.1			
FM (30°-60°)	8784.0	39.0			
FH (60°-80°)	6406.7	28.4			G3/7500
FVH (80°-90°)	314.9	1.4			G3/500
BL (0°-30°)	1154.4	5.1	B3/2500		
BM (30°-60°)	2155.4	9.6	B2/2500		
BH (60°-80°)	1543.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	103.1	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1
2.5°	4523.5	4502.0	4515.1	4510.4	4516.3	4523.5	4525.8	4529.4	4541.3	4540.1
5°	4513.9	4492.5	4510.4	4504.4	4519.9	4536.6	4550.9	4564.0	4583.0	4591.4
7.5°	4493.7	4479.4	4497.3	4515.1	4543.7	4568.7	4589.0	4618.8	4646.2	4650.9
10°	4375.7	4365.0	4406.7	4453.2	4531.8	4599.7	4643.8	4678.3	4708.1	4712.9
12.5°	4253.0	4239.9	4286.4	4349.5	4477.0	4599.7	4692.6	4737.9	4764.1	4779.6
15°	4232.8	4222.1	4248.3	4303.1	4409.1	4567.5	4726.0	4809.4	4832.0	4849.9
17.5°	4330.5	4310.2	4320.9	4340.0	4401.9	4537.8	4752.2	4890.4	4924.9	4944.0
20°	4556.8	4528.2	4511.5	4473.4	4462.7	4542.5	4749.8	4988.1	5033.3	5057.2
22.5°	4858.2	4839.2	4803.4	4706.9	4602.1	4600.9	4795.1	5113.2	5197.7	5220.4
25°	5222.8	5194.2	5148.9	5017.9	4816.5	4716.5	4871.3	5272.8	5414.6	5420.5
27.5°	5642.1	5599.2	5537.3	5364.5	5092.9	4897.5	4988.1	5456.3	5663.6	5661.2
30°	6084.1	6041.2	5975.7	5766.0	5424.1	5141.8	5150.1	5654.0	5959.0	5945.9
32.5°	6406.9	6374.8	6361.7	6199.7	5805.3	5430.1	5335.9	5873.2	6323.6	6311.6
35°	6654.7	6613.0	6628.5	6546.3	6221.1	5752.9	5563.5	6134.1	6766.7	6765.5
37.5°	6900.2	6863.2	6876.3	6821.5	6605.9	6162.7	5841.1	6453.4	7315.9	7342.1
40°	7124.1	7084.8	7137.2	7086.0	6904.9	6598.7	6156.8	6814.4	7952.1	8002.1
42.5°	7258.7	7227.8	7314.7	7315.9	7164.6	6966.9	6503.4	7212.3	8688.3	8800.3
45°	7305.2	7294.5	7425.5	7452.9	7394.6	7180.1	6815.6	7645.9	9481.8	9681.9
47.5°	7255.2	7234.9	7416.0	7517.3	7563.7	7280.2	7074.1	8115.3	10291.9	10584.9
50°	7002.6	6963.3	7232.5	7445.8	7611.4	7345.7	7335.0	8657.4	11212.7	11533.2
52.5°	6548.7	6518.9	6825.1	7195.6	7506.5	7377.9	7628.1	9249.4	12087.2	12501.8
55°	5968.5	5929.2	6266.4	6750.0	7245.6	7367.2	7921.1	9911.8	13118.9	13539.4
57.5°	5048.8	4970.2	5396.7	5968.5	6820.3	7354.0	8226.1	10570.6	14167.2	14671.2
60°	3707.4	3590.7	4113.6	4791.5	5988.8	7226.6	8603.7	11309.2	15425.3	15879.2
62.5°	2158.7	2090.8	2432.7	3065.3	4513.9	6476.0	8815.8	12168.2	16661.9	17138.4
65°	1676.2	1657.1	1686.9	1735.8	2512.5	4848.7	8161.8	13005.7	18234.4	18568.0
67.5°	1533.2	1518.9	1532.0	1440.3	1274.7	2700.7	6457.0	13217.7	19918.9	20121.5
70°	1362.9	1346.2	1389.1	1310.5	1003.1	1228.3	4172.0	12448.2	21259.2	21639.2
72.5°	1110.3	1091.3	1191.3	1155.6	844.6	788.7	2095.5	10619.5	21118.6	21907.3
75°	853.0	842.3	961.4	991.2	688.6	620.7	1005.5	7893.7	18584.7	19379.3
77.5°	662.4	654.0	714.8	823.2	555.2	481.3	618.3	5007.1	14005.2	14144.6
80°	496.8	473.0	528.9	637.4	432.5	351.4	419.3	2919.9	8852.7	8024.8
82.5°	310.9	299.0	345.5	425.3	305.0	241.8	272.8	1613.1	3547.8	2089.6
85°	177.5	172.7	188.2	243.0	165.6	139.4	156.1	712.4	648.1	445.6
87.5°	71.5	69.1	85.8	108.4	60.8	51.2	54.8	171.6	143.0	132.2
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°
4521.1	0°	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1
4538.9	2.5°	4534.2	4534.2	4517.5	4491.3	4461.5	4442.4	4411.5	4403.1	4371.0	4361.4
4579.5	5°	4589.0	4579.5	4528.2	4454.4	4353.1	4260.2	4157.7	4093.4	4002.9	3970.7
4659.3	7.5°	4658.1	4631.9	4543.7	4381.7	4169.6	3961.2	3744.3	3579.9	3422.7	3366.7
4724.8	10°	4721.2	4684.3	4534.2	4250.6	3883.7	3522.7	3177.3	2935.4	2752.0	2676.9
4797.5	12.5°	4784.4	4716.5	4471.0	4032.6	3477.5	2987.8	2619.7	2431.5	2318.3	2227.8
4857.0	15°	4843.9	4748.6	4373.4	3740.8	3031.9	2535.1	2263.5	2113.4	2022.9	1963.3
4944.0	17.5°	4913.0	4776.0	4226.8	3370.3	2607.8	2221.8	2000.2	1909.7	1891.8	1884.7
5063.1	20°	5009.5	4801.0	4033.8	2955.7	2295.7	1971.6	1857.3	1848.9	1847.7	1844.2
5206.1	22.5°	5113.2	4830.8	3778.9	2579.2	2030.0	1815.6	1795.3	1778.6	1767.9	1766.7
5378.8	25°	5235.9	4840.4	3459.6	2270.7	1803.7	1741.7	1717.9	1692.9	1685.7	1685.7
5575.4	27.5°	5355.0	4808.2	3087.9	2002.6	1676.2	1673.8	1642.8	1634.5	1633.3	1636.9
5799.4	30°	5474.1	4747.4	2718.6	1754.8	1602.3	1602.3	1591.6	1597.6	1602.3	1614.2
6106.7	32.5°	5635.0	4683.1	2410.0	1571.4	1538.0	1526.1	1536.8	1548.7	1553.5	1569.0
6510.6	35°	5870.8	4637.8	2164.6	1471.3	1471.3	1455.8	1461.8	1459.4	1448.7	1441.5
6999.0	37.5°	6183.0	4635.4	1962.1	1424.8	1415.3	1412.9	1414.1	1398.6	1356.9	1306.9
7589.9	40°	6558.2	4699.8	1806.0	1392.7	1385.5	1399.8	1392.7	1351.0	1236.6	1149.6
8316.6	42.5°	7062.2	4883.2	1706.0	1353.3	1374.8	1392.7	1364.1	1219.9	1142.5	1084.1
9144.6	45°	7655.5	5181.1	1654.8	1311.6	1354.5	1376.0	1237.8	1174.6	1112.7	1042.4
10047.6	47.5°	8327.4	5556.3	1642.8	1272.3	1309.3	1322.4	1184.2	1155.6	1085.3	1009.1
10955.4	50°	9058.8	6000.7	1675.0	1225.9	1243.7	1198.5	1166.3	1140.1	1067.4	992.4
11885.8	52.5°	9815.3	6490.3	1739.3	1162.7	1178.2	1128.2	1159.2	1136.5	1056.7	955.4
12847.2	55°	10558.7	6983.5	1801.3	1088.9	1111.5	1065.0	1138.9	1122.2	1007.9	893.5
13873.0	57.5°	11314.0	7474.4	1862.0	1023.3	1047.2	1004.3	1106.7	1084.1	953.1	836.3
14992.8	60°	12099.1	7950.9	1890.6	960.2	976.9	948.3	1057.9	1018.6	891.1	777.9
16093.6	62.5°	12834.1	8347.6	1844.2	897.1	907.8	895.9	993.6	941.1	829.2	712.4
17240.9	65°	13571.6	8583.5	1701.2	835.1	837.5	831.5	903.0	857.8	756.5	655.2
18245.1	67.5°	14239.9	8715.7	1473.7	768.4	762.4	760.1	818.4	767.2	686.2	598.0
19008.8	70°	14381.7	8379.8	1125.8	689.8	689.8	683.8	725.5	673.1	608.8	537.3
18462.0	72.5°	13135.5	7049.1	799.4	600.4	610.0	598.0	632.6	588.5	530.1	482.5
15911.3	75°	10592.1	5169.2	581.4	508.7	525.4	505.1	537.3	506.3	456.3	455.1
10965.0	77.5°	7277.8	3196.3	421.7	419.3	431.3	405.1	442.0	425.3	380.0	359.8
4772.4	80°	3105.8	1274.7	307.4	324.0	324.0	300.2	343.1	347.9	308.6	299.0
920.9	82.5°	618.3	362.2	215.6	222.8	209.7	202.5	243.0	269.2	371.7	413.4
277.6	85°	185.8	133.4	129.9	121.5	107.2	108.4	143.0	270.4	333.6	190.6
91.7	87.5°	51.2	33.4	34.5	27.4	22.6	29.8	48.8	204.9	112.0	47.7
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>
4521.1
4376.9
3994.5
3373.8
2693.6
2257.6
1974.0
1889.4
1856.1
1779.8
1692.9
1646.4
1622.6
1582.1
1458.2
1308.1
1147.2
1081.7
1037.6
1003.1
984.0
948.3
887.5
833.9
774.4
711.2
648.1
590.9
534.9
468.2
409.8
337.1
299.0
414.6
164.4
40.5
0.0

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