

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: P953553

Luminaire Tested: **GALN-SB7A-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953553
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-SB7A-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 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: 27111 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

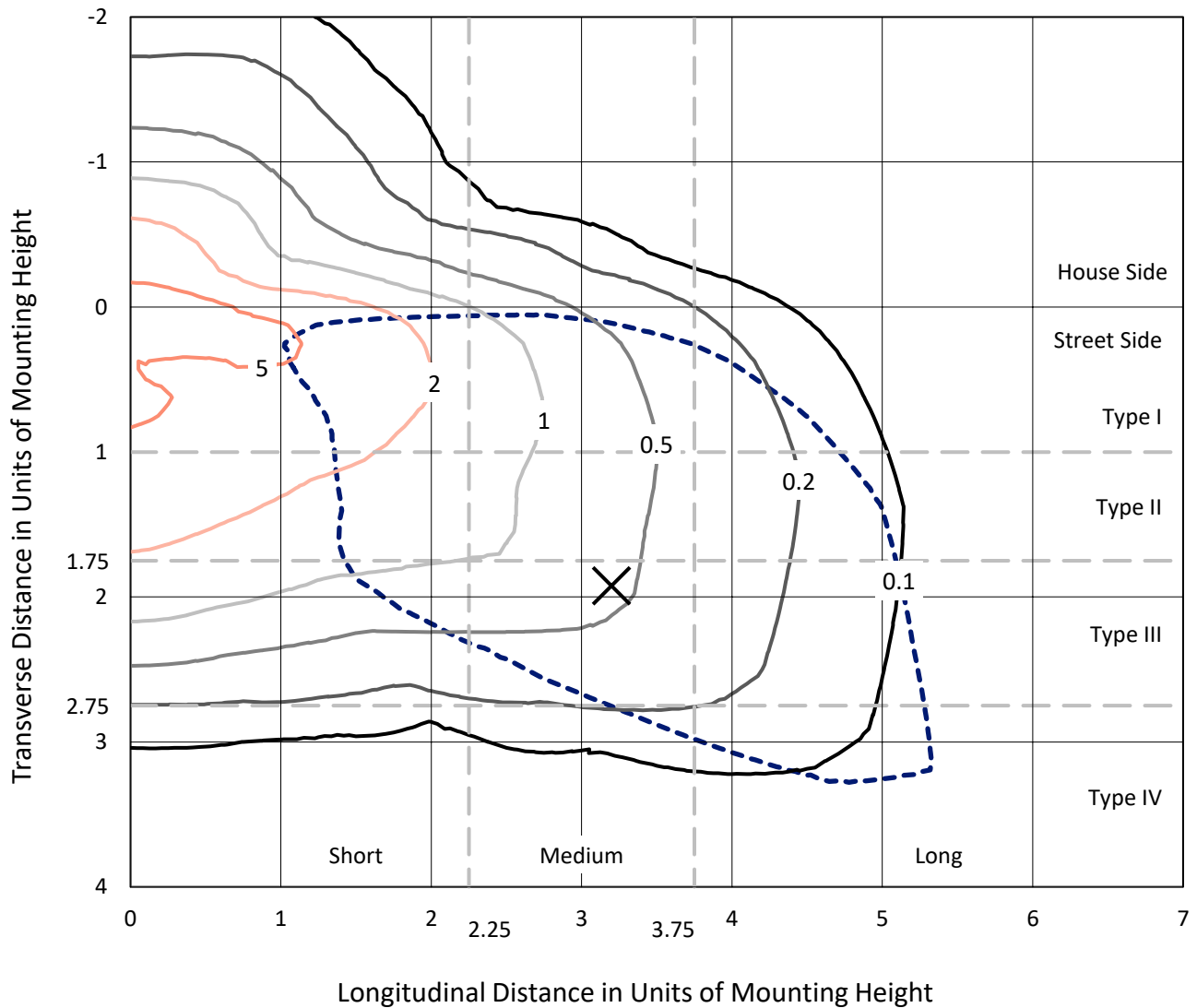
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

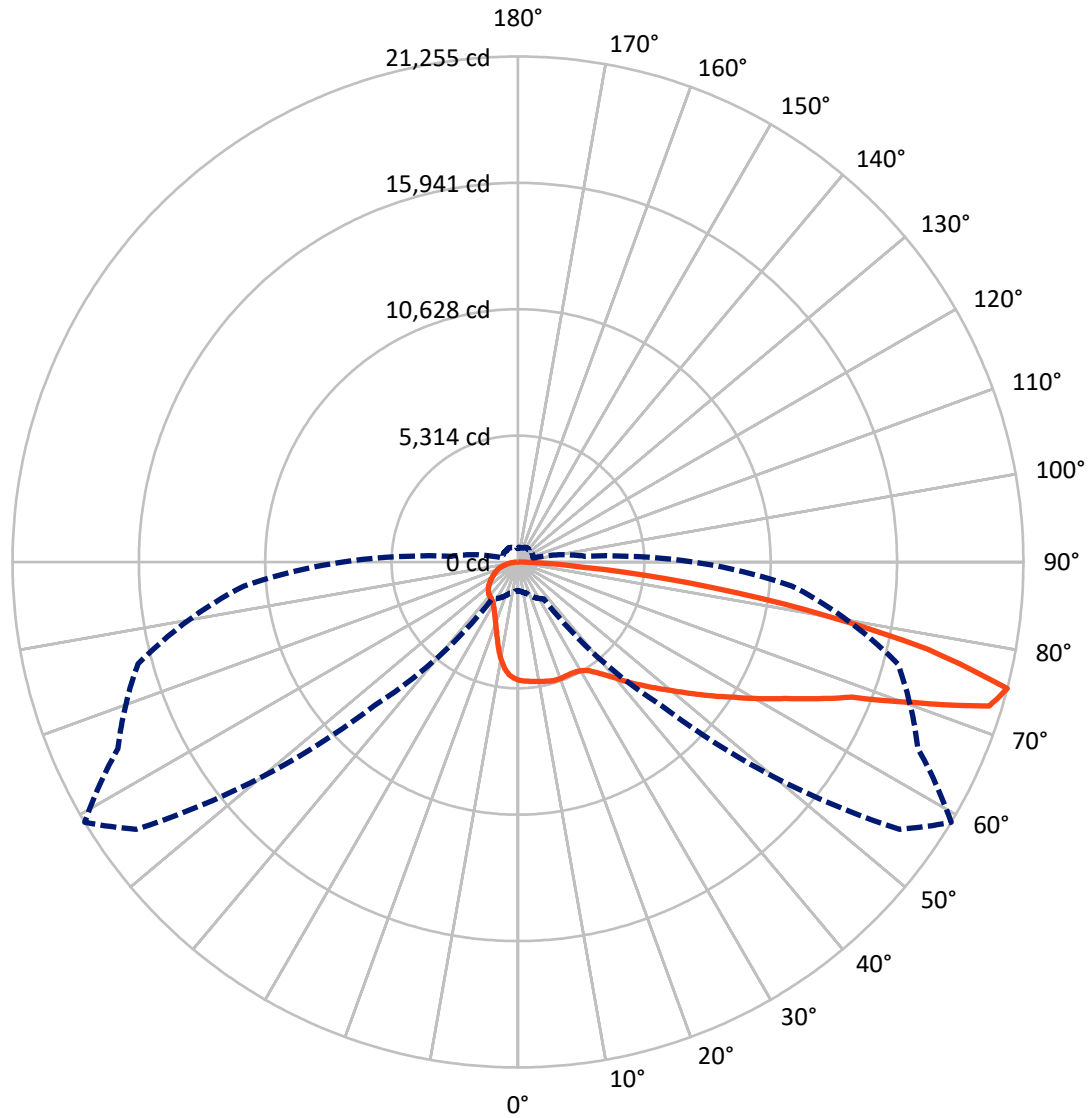
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	5084.9	0.0	5084.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22026.1	0.0	22026.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	27111.0	0.0	27111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.2	1.6
10°-20°	1140.5	4.2
20°-30°	1732.3	6.4
30°-40°	2575.1	9.5
40°-50°	3829.6	14.1
50°-60°	5198.2	19.2
60°-70°	6346.1	23.4
70°-80°	4980.4	18.4
80°-90°	862.7	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°	27111.0	100.0
0°-180°	27111.0	100.0

Coefficient of Utilization



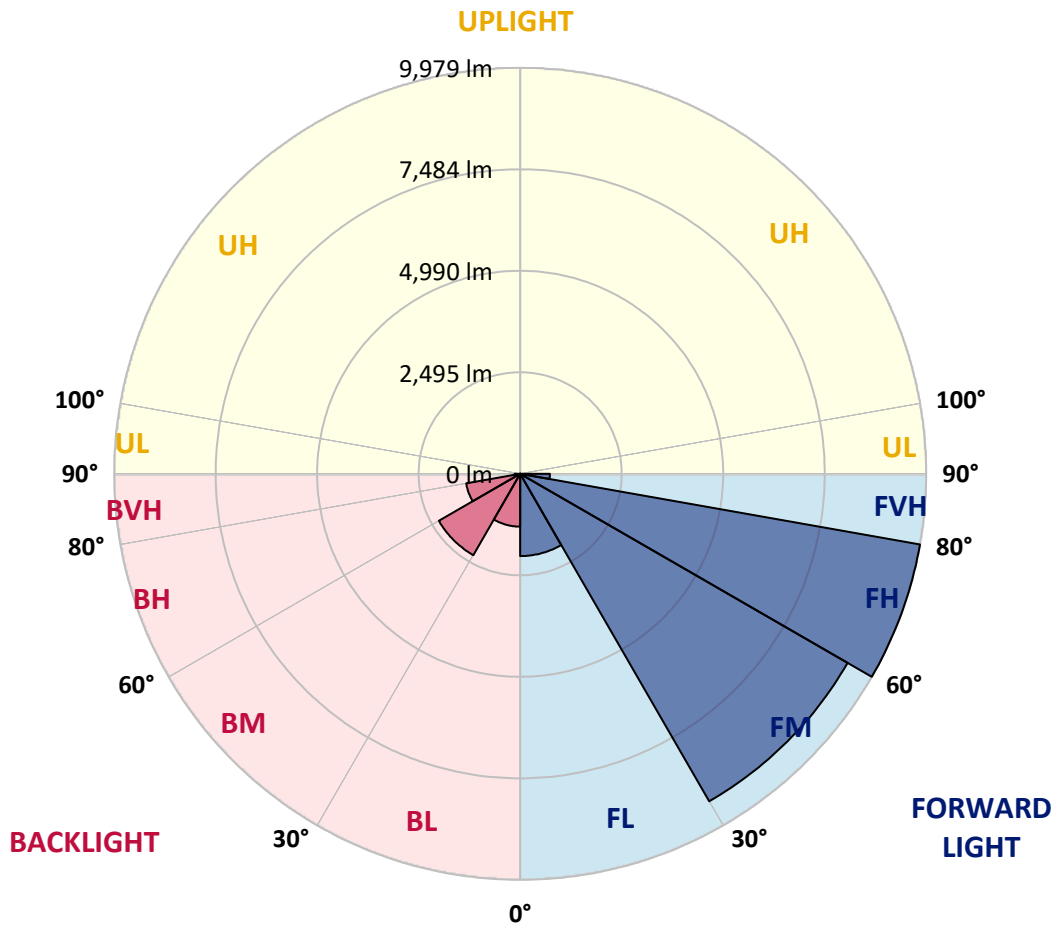
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2021.4	7.5			
FM	(30°-60°)	9294.8	34.3			
FH	(60°-80°)	9979.3	36.8			G4/12000
FVH	(80°-90°)	730.7	2.7			G4/750
BL	(0°-30°)	1297.6	4.8	B3/2500		
BM	(30°-60°)	2308.0	8.5	B2/2500		
BH	(60°-80°)	1347.2	5.0	B3/2500		G3/2500
BVH	(80°-90°)	132.1	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-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2
2.5°	5018.5	5001.0	5018.5	5011.2	5008.2	5002.4	5003.9	5014.1	5008.2	5015.5
5°	4984.9	4974.7	4992.2	4987.8	5006.8	5009.7	5028.7	5040.3	5047.6	5049.1
7.5°	4929.5	4919.3	4944.1	4964.5	5005.3	5017.0	5056.4	5075.3	5085.5	5103.0
10°	4726.8	4722.4	4783.7	4860.9	4957.2	5017.0	5076.8	5108.9	5124.9	5171.6
12.5°	4368.0	4373.8	4454.0	4602.8	4795.3	4987.8	5100.1	5146.8	5171.6	5229.9
15°	4025.3	4023.8	4111.3	4270.3	4540.1	4859.5	5111.8	5192.0	5234.3	5320.4
17.5°	3826.9	3821.1	3882.3	4003.4	4254.2	4662.6	5082.6	5216.8	5307.2	5415.2
20°	3790.5	3778.8	3810.9	3870.7	4048.6	4446.8	5006.8	5216.8	5365.6	5505.6
22.5°	3923.2	3904.2	3891.1	3883.8	3962.6	4268.8	4920.7	5199.3	5451.6	5635.4
25°	4190.1	4160.9	4093.8	4028.2	4004.8	4188.6	4844.9	5194.9	5580.0	5810.4
27.5°	4621.8	4585.3	4449.7	4292.2	4150.7	4229.4	4811.4	5221.2	5721.4	5995.6
30°	5157.0	5117.6	4947.0	4704.9	4451.1	4381.1	4853.7	5298.5	5902.3	6242.1
32.5°	5636.8	5593.1	5447.2	5200.8	4858.0	4643.6	4987.8	5445.8	6186.7	6584.8
35°	6062.7	6011.6	5880.4	5652.9	5356.8	5012.6	5229.9	5706.8	6590.6	7141.9
37.5°	6479.8	6420.0	6277.1	6036.4	5829.3	5504.1	5563.9	6042.3	7127.3	7818.6
40°	6946.5	6860.5	6686.9	6449.2	6247.9	6080.2	6002.9	6453.6	7672.8	8574.1
42.5°	7398.6	7316.9	7109.8	6907.1	6654.8	6606.7	6511.9	6934.8	8269.3	9404.0
45°	7885.7	7788.0	7537.2	7280.5	7121.5	6956.7	7004.8	7416.1	8854.1	10249.8
47.5°	8342.2	8232.8	7936.8	7650.9	7563.4	7251.3	7457.0	7945.5	9462.3	11107.4
50°	8588.7	8480.8	8234.3	7976.2	7907.6	7614.5	7947.0	8527.4	10099.6	11962.0
52.5°	8794.3	8677.7	8355.3	8212.4	8192.0	8009.7	8550.8	9192.5	10737.0	12717.5
55°	9013.1	8883.3	8472.0	8343.7	8437.0	8453.1	9266.9	9946.5	11410.8	13454.0
57.5°	9265.4	9100.6	8584.3	8454.5	8676.2	8972.3	10089.4	10728.2	12072.9	14136.6
60°	9503.1	9336.9	8800.2	8631.0	8934.3	9574.6	11033.0	11674.7	12822.5	14744.7
62.5°	9549.8	9412.7	8972.3	8970.8	9284.4	10277.6	12150.2	12630.0	13477.4	15345.6
65°	8741.8	8655.8	8394.7	8957.7	9786.1	11289.7	13394.2	13852.2	14310.1	15870.6
67.5°	6653.4	6665.0	6646.1	7732.6	9380.6	12743.8	15195.4	15160.4	15338.3	16459.8
70°	3042.3	3110.8	3557.1	5337.9	7515.3	12911.5	18173.5	17719.9	16629.0	17222.6
72.5°	1643.7	1696.2	1878.5	2585.8	4518.2	11479.3	20399.1	20721.4	18345.6	17736.0
75°	1206.1	1235.3	1362.2	1643.7	1897.4	8531.8	19601.3	21255.2	18560.0	16538.6
77.5°	902.8	915.9	1019.4	1302.4	971.3	4497.8	15662.1	17603.3	15888.1	13588.2
80°	654.8	669.4	746.7	977.1	681.1	1645.1	10754.5	12355.8	10881.3	8661.6
82.5°	452.1	457.9	491.5	665.0	475.4	638.8	6102.1	7245.5	6074.4	3039.4
85°	272.7	280.0	294.6	387.9	269.8	303.4	2633.9	2724.3	1815.7	726.3
87.5°	112.3	119.6	131.3	163.3	106.5	84.6	434.6	545.5	339.8	212.9
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°
4976.2	0°	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2
4990.7	2.5°	4983.5	4973.2	4945.5	4907.6	4872.6	4828.9	4809.9	4793.9	4779.3	4751.6
5030.1	5°	5014.1	4986.4	4912.0	4815.7	4706.4	4586.8	4470.1	4389.9	4321.3	4270.3
5075.3	7.5°	5060.8	5008.2	4872.6	4675.7	4424.9	4168.2	3936.3	3771.5	3647.5	3602.3
5139.5	10°	5108.9	5046.2	4809.9	4462.8	4029.6	3634.4	3326.7	3157.5	3058.3	3026.2
5215.3	12.5°	5165.8	5073.9	4712.2	4166.7	3587.7	3154.6	2886.2	2787.1	2736.0	2718.5
5308.7	15°	5248.9	5097.2	4564.9	3796.3	3166.3	2804.6	2631.0	2562.5	2536.2	2534.8
5404.9	17.5°	5311.6	5101.6	4335.9	3399.6	2842.5	2593.1	2450.2	2423.9	2441.4	2467.7
5499.7	20°	5381.6	5062.2	4035.5	3037.9	2615.0	2407.9	2348.1	2365.6	2407.9	2445.8
5625.2	22.5°	5431.2	4990.7	3672.3	2756.4	2418.1	2301.4	2298.5	2334.9	2358.3	2377.2
5772.5	25°	5474.9	4869.7	3287.3	2520.2	2256.2	2237.2	2269.3	2257.6	2241.6	2257.6
5919.8	27.5°	5507.0	4678.6	2943.1	2313.1	2142.4	2193.5	2174.5	2148.3	2146.8	2155.6
6093.3	30°	5496.8	4423.4	2660.2	2116.2	2062.2	2111.8	2066.6	2062.2	2057.8	2062.2
6354.4	32.5°	5496.8	4133.2	2442.9	1980.5	2011.2	1992.2	1987.8	1977.6	1960.1	1958.7
6708.8	35°	5527.5	3843.0	2256.2	1907.6	1968.9	1923.7	1926.6	1901.8	1865.3	1847.8
7178.4	37.5°	5590.2	3609.6	2071.0	1872.6	1894.5	1893.0	1881.4	1839.1	1774.9	1719.5
7764.7	40°	5741.8	3541.1	1944.1	1856.6	1859.5	1877.0	1846.4	1764.7	1618.9	1528.4
8359.7	42.5°	5979.6	3656.3	1916.4	1817.2	1836.2	1853.7	1793.9	1604.3	1500.7	1446.8
8983.9	45°	6281.5	3857.5	1976.2	1760.3	1780.7	1811.4	1633.4	1543.0	1496.3	1497.8
9602.3	47.5°	6663.6	4069.0	2087.0	1710.7	1700.5	1718.0	1527.0	1471.6	1407.4	1423.4
10195.9	50°	7105.5	4283.4	2192.0	1643.7	1611.6	1554.7	1458.4	1405.9	1324.3	1286.3
10769.0	52.5°	7583.8	4490.5	2234.3	1562.0	1515.3	1449.7	1411.8	1347.6	1248.4	1185.7
11310.1	55°	8037.4	4678.6	2187.6	1464.3	1419.1	1368.0	1362.2	1322.8	1216.3	1128.8
11791.4	57.5°	8466.2	4836.2	2071.0	1365.1	1321.3	1290.7	1330.1	1311.1	1177.0	1064.7
12246.4	60°	8829.3	4944.1	1901.8	1264.5	1233.8	1217.8	1277.6	1271.8	1121.5	996.1
12654.8	62.5°	9118.1	4986.4	1715.1	1168.2	1160.9	1131.7	1204.7	1204.7	1051.5	929.0
13013.6	65°	9344.2	4945.5	1525.5	1073.4	1088.0	1044.2	1115.7	1106.9	977.1	869.2
13426.3	67.5°	9544.0	4811.4	1315.5	980.1	1013.6	958.2	1022.4	1001.9	895.5	809.4
13783.6	70°	9632.9	4499.3	1076.3	886.7	927.6	873.6	929.0	891.1	803.6	745.3
13391.3	72.5°	8918.3	3739.4	847.3	789.0	824.0	780.3	828.4	784.6	704.4	678.2
11563.9	75°	7378.2	2806.0	651.9	682.5	708.8	675.3	707.3	675.3	602.3	621.3
8542.0	77.5°	5358.3	1894.5	498.8	570.2	581.9	564.4	592.1	555.7	490.0	485.7
4257.2	80°	2664.6	1109.9	390.9	450.7	446.3	434.6	466.7	449.2	393.8	417.1
1149.2	82.5°	771.5	475.4	284.4	316.5	307.7	310.6	334.0	342.7	513.4	509.0
357.3	85°	242.1	186.7	170.6	176.5	167.7	172.1	196.9	390.9	361.7	211.5
110.8	87.5°	62.7	64.2	42.3	45.2	46.7	55.4	62.7	237.7	113.8	74.4
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

<u>180°</u>
4976.2
4738.4
4228.0
3523.6
2976.7
2722.9
2540.6
2477.9
2458.9
2387.5
2267.9
2170.1
2078.3
1977.6
1865.3
1738.4
1540.1
1446.8
1505.1
1464.3
1296.5
1184.2
1128.8
1058.8
991.7
924.6
863.4
803.6
733.6
656.3
567.3
463.8
412.7
520.7
229.0
78.8
0.0

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