

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: P942825

Luminaire Tested: **GALN-SB7A-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31609 lumens
Efficiency: N/A
Efficacy: 158.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

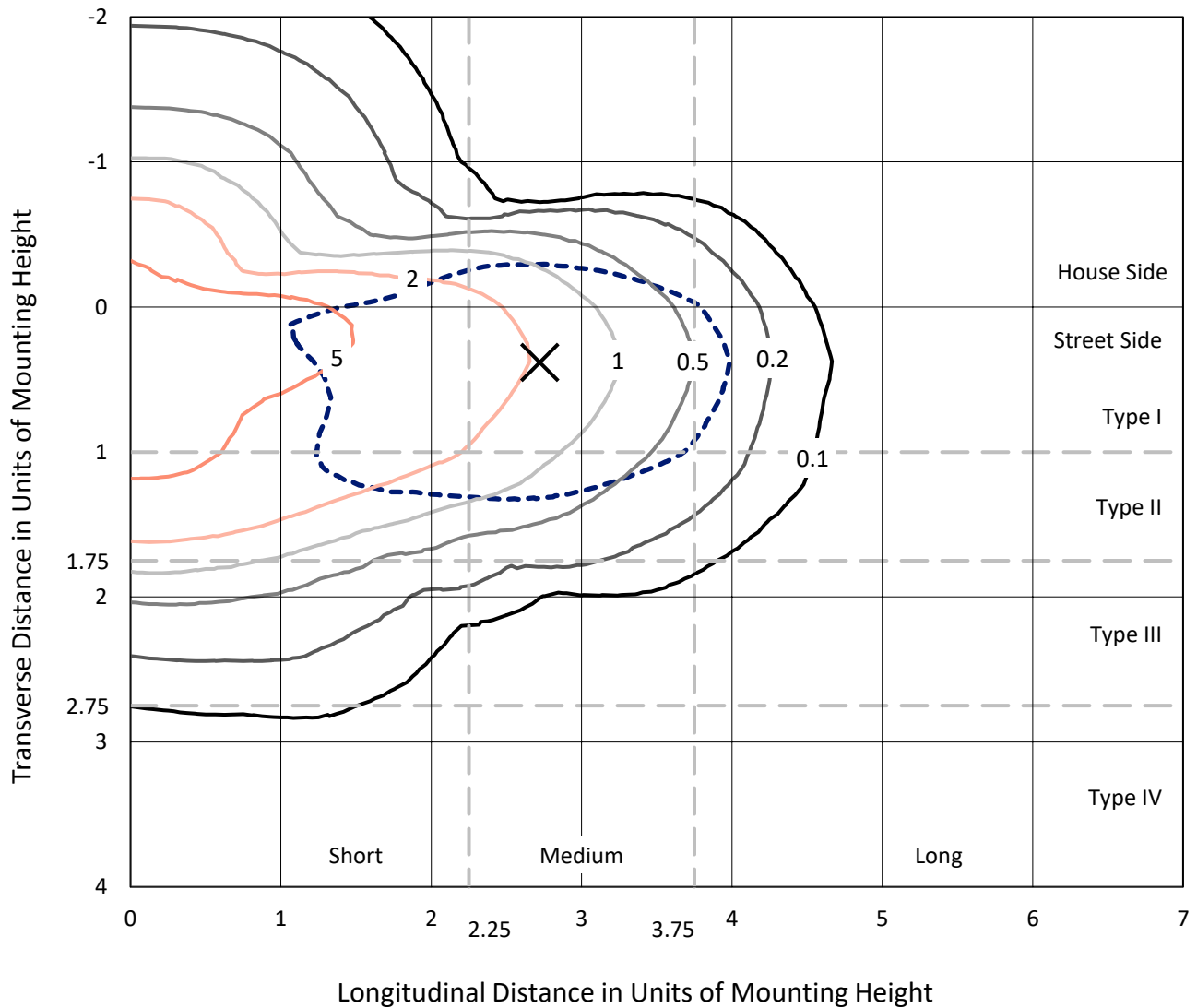
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

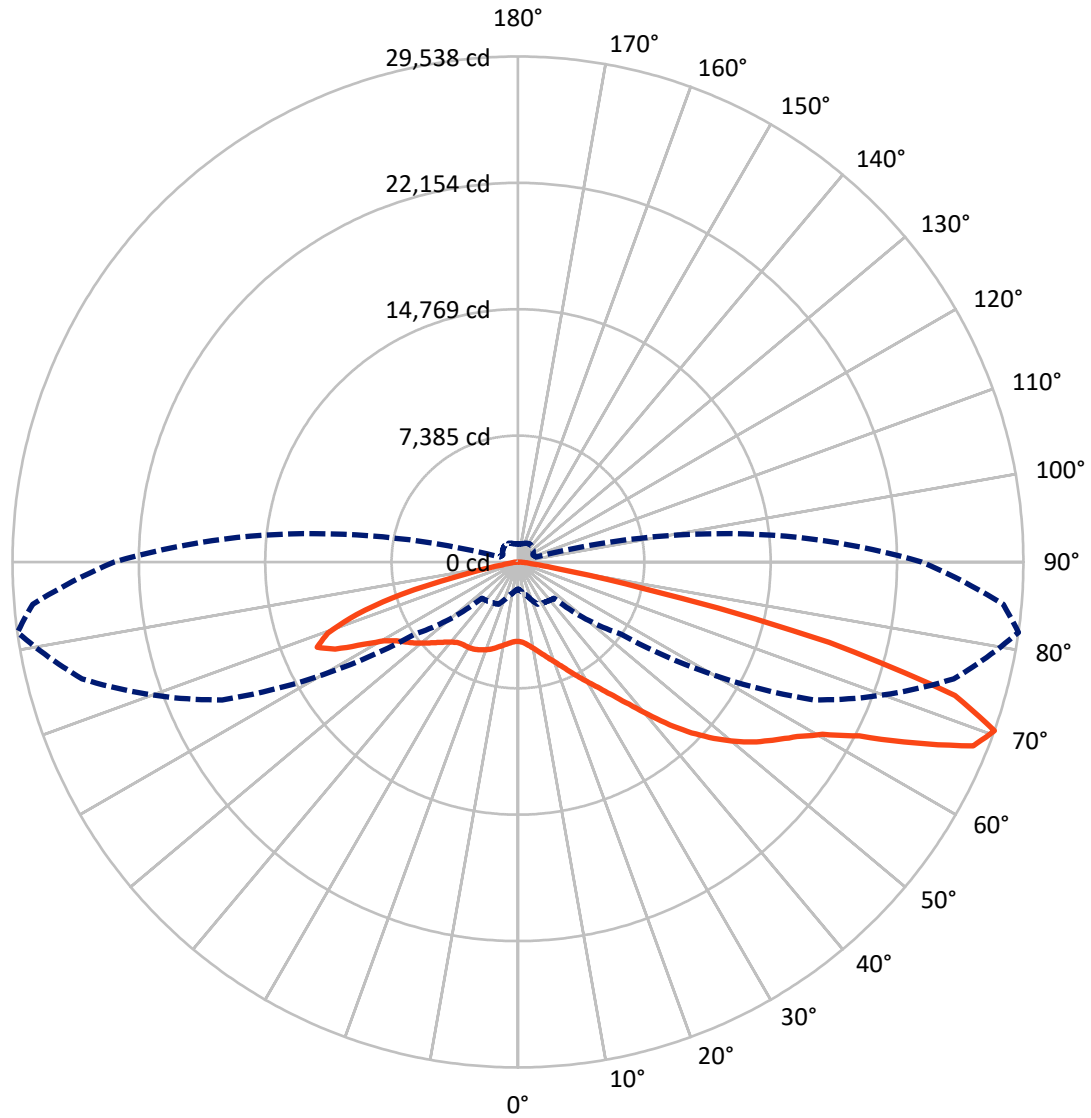
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7792.4	0.0	7792.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	23816.6	0.0	23816.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	31609.0	0.0	31609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.6	1.4
10°-20°	1257.1	4.0
20°-30°	2103.1	6.7
30°-40°	3285.5	10.4
40°-50°	5232.6	16.6
50°-60°	7281.7	23.0
60°-70°	7617.0	24.1
70°-80°	3981.1	12.6
80°-90°	413.4	1.3
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°	31609.0	100.0
0°-180°	31609.0	100.0

Coefficient of Utilization



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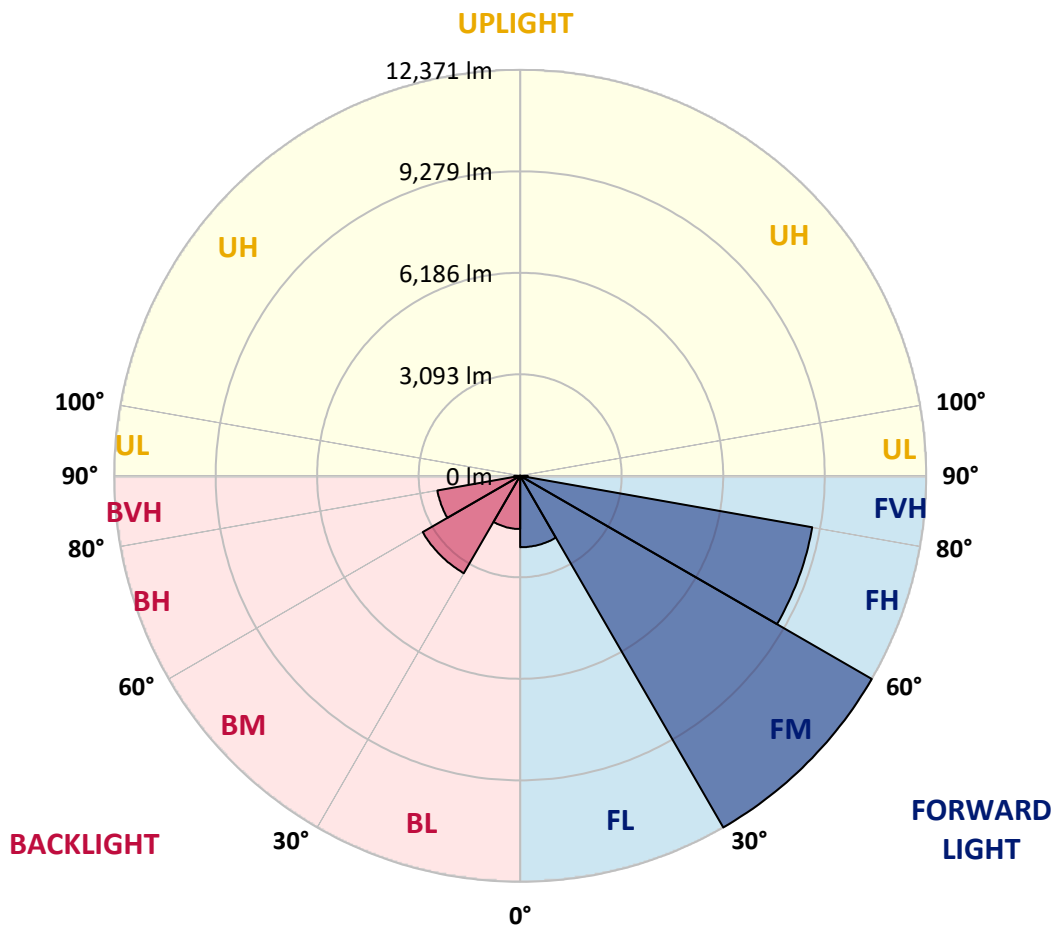
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2176.6	6.9			
FM (30°-60°)	12371.4	39.1			
FH (60°-80°)	9037.1	28.6			G4/12000
FVH (80°-90°)	231.4	0.7			G3/500
BL (0°-30°)	1621.1	5.1	B3/2500		
BM (30°-60°)	3428.3	10.8	B3/5000		
BH (60°-80°)	2561.0	8.1	B4/5000		G4/5000
BVH (80°-90°)	182.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3
2.5°	4745.0	4771.8	4763.4	4755.0	4755.0	4743.3	4741.6	4724.8	4711.4	4689.6
5°	4805.4	4833.9	4830.5	4837.2	4859.0	4864.1	4869.1	4859.0	4832.2	4805.4
7.5°	4751.7	4783.6	4793.6	4833.9	4901.0	4961.3	5006.6	5025.1	4999.9	4961.3
10°	4570.5	4605.8	4641.0	4736.6	4855.7	4998.2	5119.0	5191.1	5186.1	5149.2
12.5°	4203.2	4240.1	4315.6	4501.8	4719.8	4971.4	5196.2	5347.1	5399.1	5372.3
15°	3909.7	3941.6	3998.6	4189.8	4473.3	4855.7	5224.7	5518.2	5650.7	5635.6
17.5°	3901.3	3914.7	3950.0	4040.5	4258.6	4674.5	5194.5	5685.9	5939.2	5937.5
20°	4048.9	4053.9	4074.1	4092.5	4216.6	4537.0	5117.3	5825.1	6262.9	6262.9
22.5°	4253.5	4250.2	4270.3	4253.5	4313.9	4525.3	5068.7	5947.6	6623.5	6650.3
25°	4560.5	4543.7	4538.7	4500.1	4511.8	4634.3	5122.4	6086.8	7051.2	7106.6
27.5°	4969.7	4942.9	4924.4	4835.5	4805.4	4859.0	5286.7	6254.5	7527.6	7623.2
30°	5503.1	5454.5	5427.6	5273.3	5164.3	5172.7	5535.0	6477.6	8025.7	8180.0
32.5°	6231.0	6155.6	6083.4	5830.2	5630.6	5565.2	5855.3	6786.2	8565.8	8812.3
35°	7046.2	6985.8	6908.6	6517.8	6210.9	6059.9	6288.1	7217.3	9198.1	9588.9
37.5°	7831.1	7779.1	7816.0	7289.4	6893.5	6673.8	6855.0	7795.9	9978.0	10555.0
40°	8642.9	8602.7	8607.7	8104.5	7643.3	7396.7	7542.6	8522.2	10872.0	11703.9
42.5°	9525.2	9495.0	9394.3	8948.2	8429.9	8200.1	8334.3	9360.8	11831.4	13012.2
45°	10513.1	10494.6	10400.7	9889.1	9295.4	9037.1	9218.2	10286.6	12795.8	14243.3
47.5°	11366.8	11381.9	11370.2	10939.1	10323.5	9944.5	10160.9	11252.8	13693.2	15400.6
50°	11777.7	11856.6	11972.3	11838.1	11455.7	11069.9	11111.9	12185.3	14548.6	16485.8
52.5°	11563.0	11712.3	12027.6	12242.3	12389.9	12309.4	12197.0	13111.2	15353.7	17465.3
55°	10763.0	10972.6	11496.0	12014.2	12767.3	13352.7	13500.3	14137.6	16138.6	18327.4
57.5°	9305.4	9645.9	10115.6	11163.9	12431.9	13857.5	15019.9	15561.6	16970.5	19248.3
60°	6806.3	7262.5	7846.2	9406.1	11257.8	13587.5	16313.0	17748.8	18153.0	20440.8
62.5°	4355.8	4637.6	5174.4	6643.6	8772.1	12203.8	16708.9	20482.7	20157.3	22396.5
65°	2982.2	3163.3	3654.8	4480.0	5670.8	9084.1	15648.9	22532.3	23340.8	25496.1
67.5°	2167.0	2304.6	2723.9	3446.8	3695.0	5375.6	12143.4	22438.4	26435.3	28689.6
70°	1580.0	1677.3	2029.5	2723.9	2843.0	2990.6	7356.5	19073.8	26368.2	29538.3
72.5°	1170.7	1237.8	1474.3	2113.4	2301.2	2019.4	3641.3	13862.6	22658.1	26717.1
75°	847.0	897.3	1071.8	1616.9	1841.6	1538.0	1816.5	8101.2	15804.8	18793.7
77.5°	647.4	686.0	800.1	1184.1	1474.3	1154.0	1127.1	3726.9	7494.0	7530.9
80°	520.0	545.1	607.2	833.6	1130.5	863.8	734.6	1504.5	2368.3	2004.3
82.5°	382.4	424.3	513.2	585.4	808.4	595.4	447.8	759.8	900.7	774.9
85°	218.0	246.6	310.3	419.3	516.6	364.0	256.6	337.1	419.3	343.8
87.5°	77.2	100.6	109.0	164.4	224.8	151.0	99.0	97.3	137.5	102.3
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°
4634.3	0°	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3
4684.6	2.5°	4667.8	4659.4	4625.9	4580.6	4533.6	4488.4	4473.3	4441.4	4419.6	4407.8
4793.6	5°	4761.7	4734.9	4656.1	4555.4	4449.8	4335.7	4255.2	4181.4	4127.7	4077.4
4942.9	7.5°	4895.9	4849.0	4713.1	4537.0	4349.1	4159.6	4018.7	3911.4	3839.3	3792.3
5117.3	10°	5051.9	4979.8	4771.8	4508.5	4218.3	3946.6	3780.5	3688.3	3643.0	3617.9
5316.9	12.5°	5231.4	5129.1	4832.2	4443.1	4018.7	3708.4	3594.4	3567.5	3569.2	3570.9
5568.5	15°	5452.8	5310.2	4880.8	4300.5	3758.7	3525.6	3505.5	3549.1	3594.4	3616.2
5853.6	17.5°	5702.7	5501.4	4889.2	4065.7	3503.8	3408.2	3471.9	3565.9	3634.6	3664.8
6172.3	20°	5971.1	5696.0	4828.8	3733.6	3294.1	3312.6	3426.6	3547.4	3622.9	3661.5
6536.3	22.5°	6278.0	5904.0	4684.6	3384.7	3123.1	3208.6	3342.8	3460.2	3539.0	3577.6
6964.0	25°	6628.5	6137.1	4458.2	3091.2	2975.5	3091.2	3225.4	3322.7	3386.4	3421.6
7442.0	27.5°	7017.7	6380.3	4156.3	2858.1	2846.3	2970.4	3081.1	3156.6	3190.2	3217.0
7950.2	30°	7408.5	6601.7	3790.6	2681.9	2733.9	2851.3	2930.2	2963.7	2973.8	2978.8
8517.1	32.5°	7831.1	6792.9	3406.5	2536.0	2626.6	2735.6	2782.6	2797.7	2750.7	2718.8
9204.8	35°	8342.7	6997.5	3030.8	2420.3	2520.9	2614.9	2629.9	2616.5	2561.2	2495.8
10066.9	37.5°	8975.0	7252.5	2730.6	2338.1	2422.0	2484.0	2465.6	2462.2	2467.3	2390.1
11103.5	40°	9749.9	7584.6	2510.9	2274.4	2341.5	2354.9	2302.9	2331.4	2356.6	2239.1
12240.7	42.5°	10610.4	7985.4	2371.6	2230.8	2274.4	2242.5	2162.0	2193.9	2190.5	2036.2
13382.9	45°	11487.6	8421.5	2323.0	2198.9	2212.3	2148.6	2059.7	2068.1	1997.6	1858.4
14478.1	47.5°	12359.7	8889.5	2353.2	2172.1	2135.2	2063.0	1994.3	1957.4	1853.4	1749.4
15528.1	50°	13215.1	9380.9	2463.9	2118.4	2029.5	1987.6	1937.2	1871.8	1761.1	1672.2
16521.0	52.5°	14008.5	9875.7	2588.0	2029.5	1897.0	1922.1	1890.3	1814.8	1705.8	1615.2
17460.3	55°	14759.9	10370.5	2636.7	1907.0	1772.9	1865.1	1846.7	1707.5	1576.6	1502.8
18443.2	57.5°	15578.4	10965.9	2583.0	1751.1	1672.2	1799.7	1729.3	1574.9	1499.5	1444.1
19722.9	60°	16712.2	11900.2	2467.3	1558.2	1576.6	1702.4	1581.7	1517.9	1435.7	1373.7
21641.7	62.5°	18595.8	13642.8	2281.1	1367.0	1464.2	1558.2	1511.2	1447.5	1363.6	1303.2
24922.4	65°	21380.1	16064.8	1930.5	1217.7	1338.5	1417.3	1435.7	1372.0	1284.8	1221.0
27797.3	67.5°	23728.2	17584.4	1460.9	1093.6	1209.3	1303.2	1355.2	1293.2	1200.9	1138.9
28469.8	70°	23599.1	16480.8	1115.4	971.1	1095.3	1190.9	1257.9	1209.3	1110.3	1051.6
25860.0	72.5°	20960.7	13787.1	902.4	847.0	979.5	1073.4	1154.0	1117.1	1016.4	959.4
18944.7	75°	15398.9	9786.8	721.2	721.2	835.3	951.0	1039.9	1016.4	924.2	883.9
7953.6	77.5°	6491.0	4105.9	565.2	598.8	694.4	816.8	927.5	935.9	855.4	905.7
2103.3	80°	1725.9	1132.2	431.1	471.3	545.1	674.3	806.8	803.4	716.2	669.2
781.6	82.5°	657.5	446.2	306.9	332.1	394.2	516.6	639.0	659.2	571.9	494.8
306.9	85°	253.3	191.2	189.5	199.6	229.8	342.2	483.1	499.8	431.1	365.6
85.5	87.5°	65.4	57.0	70.4	67.1	105.7	182.8	276.7	286.8	263.3	152.6
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>
4634.3
4421.3
4097.6
3802.4
3624.6
3574.2
3614.5
3671.5
3671.5
3587.7
3431.7
3227.1
2990.6
2728.9
2499.1
2395.1
2242.5
2034.5
1863.4
1749.4
1665.5
1616.9
1496.1
1439.1
1370.3
1303.2
1224.4
1140.5
1056.7
959.4
872.2
821.9
622.3
494.8
377.4
218.0
0.0

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