

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: P942885

Luminaire Tested: **GALN-SB7A-835-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942885
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-835-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29319 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

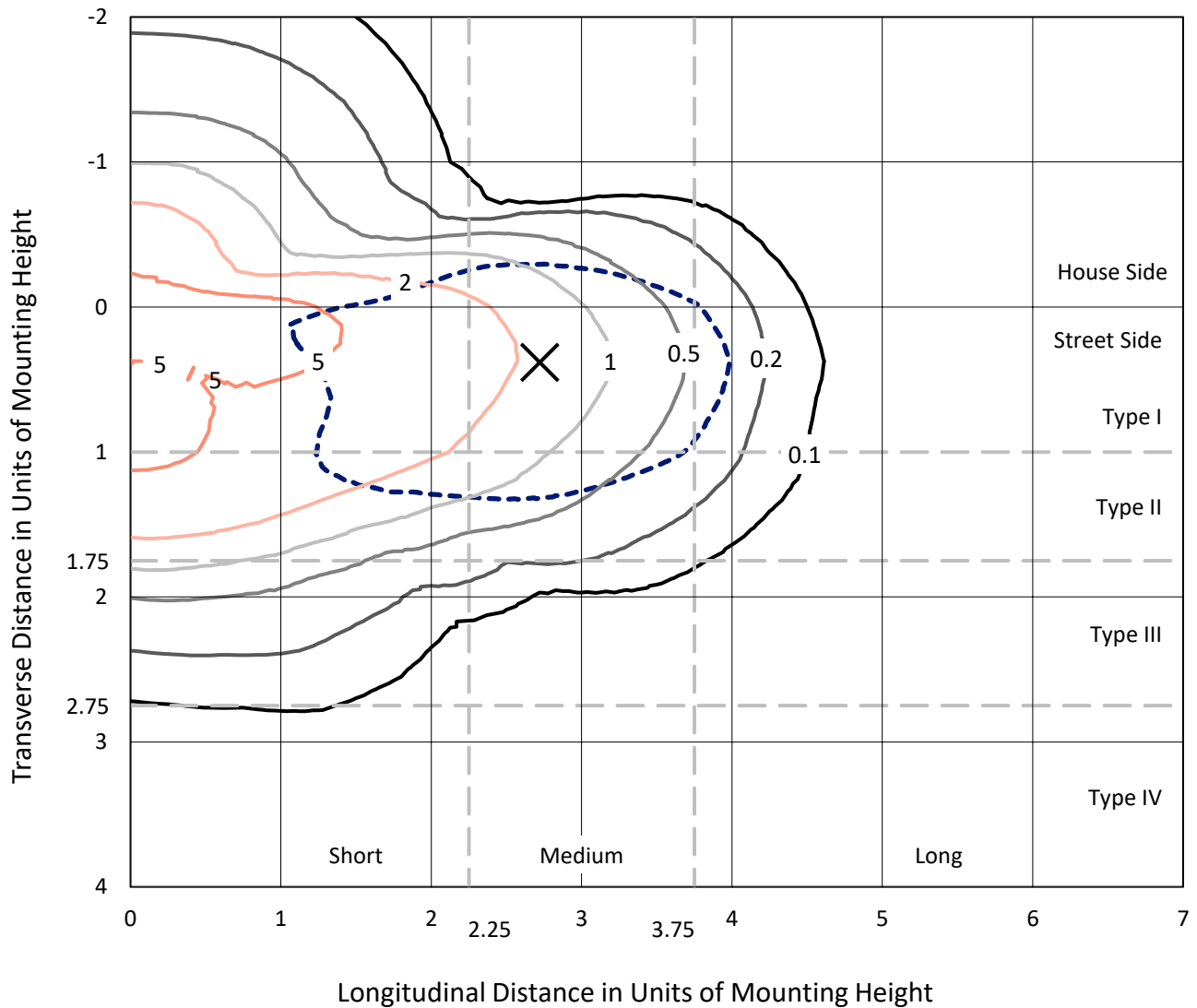
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

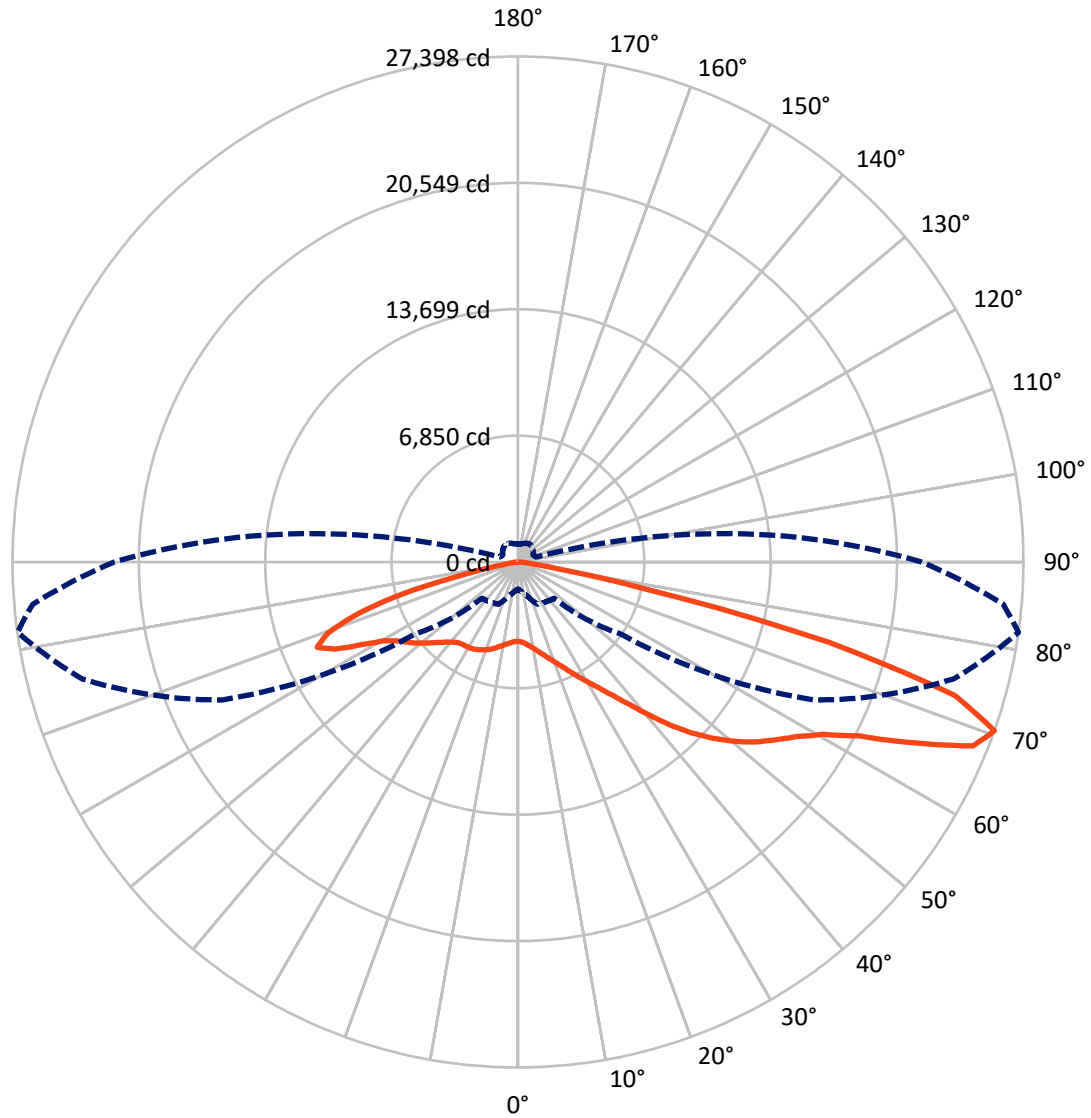
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	7227.9	0.0	7227.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	22091.1	0.0	22091.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	29319.0	0.0	29319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.9	1.4
10°-20°	1166.1	4.0
20°-30°	1950.7	6.7
30°-40°	3047.5	10.4
40°-50°	4853.5	16.6
50°-60°	6754.2	23.0
60°-70°	7065.2	24.1
70°-80°	3692.7	12.6
80°-90°	383.4	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°	29319.0	100.0
0°-180°	29319.0	100.0

Coefficient of Utilization



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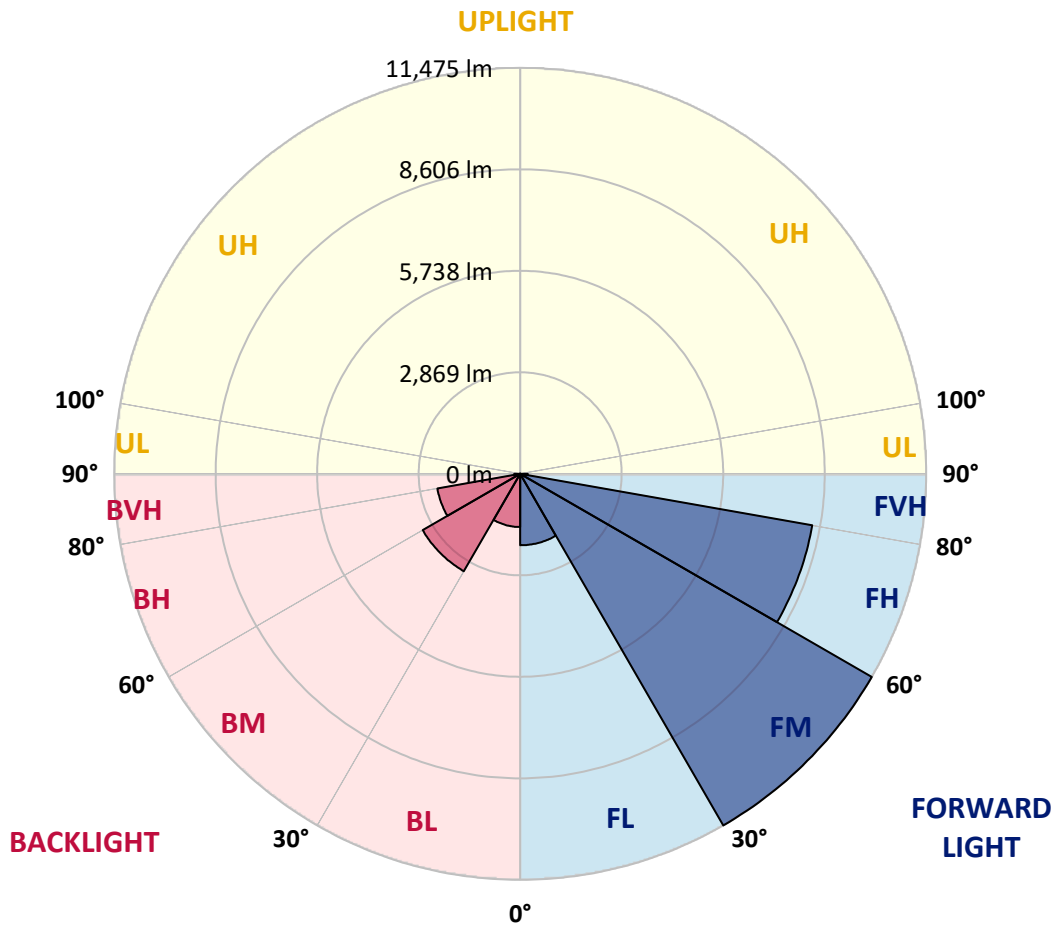
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2018.9	6.9			
FM (30°-60°)	11475.2	39.1			
FH (60°-80°)	8382.4	28.6			G4/12000
FVH (80°-90°)	214.7	0.7			G2/225
BL (0°-30°)	1503.7	5.1	B3/2500		
BM (30°-60°)	3180.0	10.8	B3/5000		
BH (60°-80°)	2375.4	8.1	B3/2500		G3/2500
BVH (80°-90°)	168.8	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4298.5	4298.5	4298.5	4298.5	4298.5	4298.5	4298.5	4298.5	4298.5	4298.5
2.5°	4401.2	4426.1	4418.3	4410.5	4410.5	4399.7	4398.1	4382.5	4370.1	4349.9
5°	4457.2	4483.7	4480.6	4486.8	4507.0	4511.7	4516.3	4507.0	4482.1	4457.2
7.5°	4407.4	4437.0	4446.3	4483.7	4545.9	4601.9	4643.9	4661.0	4637.7	4601.9
10°	4239.4	4272.1	4304.8	4393.4	4503.9	4636.1	4748.1	4815.0	4810.4	4776.1
12.5°	3898.7	3932.9	4002.9	4175.6	4377.9	4611.2	4819.7	4959.7	5008.0	4983.1
15°	3626.4	3656.0	3708.9	3886.3	4149.2	4503.9	4846.2	5118.4	5241.3	5227.3
17.5°	3618.7	3631.1	3663.8	3747.8	3950.0	4335.9	4818.2	5274.0	5508.9	5507.3
20°	3755.6	3760.2	3778.9	3796.0	3911.2	4208.3	4746.6	5403.1	5809.2	5809.2
22.5°	3945.4	3942.3	3960.9	3945.4	4001.4	4197.4	4701.5	5516.7	6143.6	6168.5
25°	4230.1	4214.5	4209.9	4174.1	4185.0	4298.5	4751.3	5645.8	6540.4	6591.7
27.5°	4609.7	4584.8	4567.7	4485.2	4457.2	4507.0	4903.7	5801.4	6982.2	7070.9
30°	5104.4	5059.3	5034.4	4891.3	4790.1	4797.9	5134.0	6008.3	7444.3	7587.4
32.5°	5779.6	5709.6	5642.7	5407.8	5222.6	5162.0	5431.1	6294.6	7945.2	8173.9
35°	6535.7	6479.7	6408.1	6045.6	5760.9	5620.9	5832.5	6694.4	8531.7	8894.2
37.5°	7263.8	7215.6	7249.8	6761.3	6394.1	6190.3	6358.3	7231.1	9255.1	9790.3
40°	8016.8	7979.4	7984.1	7517.4	7089.5	6860.8	6996.2	7904.8	10084.4	10856.0
42.5°	8835.1	8807.1	8713.7	8299.9	7819.2	7606.1	7730.5	8682.6	10974.2	12069.5
45°	9751.4	9734.3	9647.2	9172.7	8622.0	8382.4	8550.4	9541.4	11868.8	13211.4
47.5°	10543.3	10557.3	10546.4	10146.6	9575.6	9224.0	9424.7	10437.5	12701.1	14284.9
50°	10924.5	10997.6	11104.9	10980.5	10625.8	10267.9	10306.8	11302.5	13494.6	15291.4
52.5°	10725.3	10863.8	11156.3	11355.4	11492.3	11417.6	11313.4	12161.3	14241.3	16200.0
55°	9983.2	10177.7	10663.1	11143.8	11842.4	12385.3	12522.2	13113.4	14969.4	16999.7
57.5°	8631.3	8947.1	9382.7	10355.1	11531.2	12853.6	13931.7	14434.2	15741.1	17853.8
60°	6313.2	6736.4	7277.8	8724.6	10442.2	12603.1	15131.2	16462.9	16837.9	18959.9
62.5°	4040.3	4301.6	4799.5	6162.3	8136.6	11319.6	15498.4	18998.8	18697.0	20773.9
65°	2766.1	2934.1	3390.0	4155.4	5260.0	8425.9	14515.1	20899.9	21649.8	23648.9
67.5°	2010.0	2137.6	2526.5	3197.1	3427.3	4986.2	11263.6	20812.8	24520.1	26611.1
70°	1465.5	1555.7	1882.5	2526.5	2637.0	2773.9	6823.5	17692.0	24457.9	27398.3
72.5°	1085.9	1148.1	1367.5	1960.2	2134.5	1873.1	3377.5	12858.3	21016.6	24781.5
75°	785.7	832.3	994.1	1499.7	1708.2	1426.6	1684.9	7514.3	14659.8	17432.2
77.5°	600.5	636.3	742.1	1098.4	1367.5	1070.4	1045.5	3456.9	6951.1	6985.3
80°	482.3	505.6	563.2	773.2	1048.6	801.2	681.4	1395.5	2196.7	1859.1
82.5°	354.7	393.6	476.1	543.0	749.9	552.3	415.4	704.8	835.4	718.8
85°	202.2	228.7	287.8	388.9	479.2	337.6	238.0	312.7	388.9	318.9
87.5°	71.6	93.3	101.1	152.5	208.5	140.0	91.8	90.2	127.6	94.9
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°
4298.5	0°	4298.5	4298.5	4298.5	4298.5	4298.5	4298.5	4298.5	4298.5	4298.5	4298.5
4345.2	2.5°	4329.6	4321.9	4290.8	4248.7	4205.2	4163.2	4149.2	4119.6	4099.4	4088.5
4446.3	5°	4416.8	4391.9	4318.8	4225.4	4127.4	4021.6	3946.9	3878.5	3828.7	3782.0
4584.8	7.5°	4541.2	4497.7	4371.7	4208.3	4034.1	3858.3	3727.6	3628.0	3561.1	3517.5
4746.6	10°	4685.9	4619.0	4426.1	4181.9	3912.7	3660.7	3506.7	3421.1	3379.1	3355.7
4931.7	12.5°	4852.4	4757.5	4482.1	4121.2	3727.6	3439.8	3334.0	3309.1	3310.6	3312.2
5165.1	15°	5057.7	4925.5	4527.2	3988.9	3486.4	3270.2	3251.5	3292.0	3334.0	3354.2
5429.6	17.5°	5289.5	5102.9	4535.0	3771.1	3250.0	3161.3	3220.4	3307.5	3371.3	3399.3
5725.2	20°	5538.5	5283.3	4479.0	3463.1	3055.5	3072.6	3178.4	3290.4	3360.4	3396.2
6062.8	22.5°	5823.2	5476.2	4345.2	3139.5	2896.8	2976.1	3100.6	3209.5	3282.6	3318.4
6459.5	25°	6148.3	5692.5	4135.2	2867.2	2759.9	2867.2	2991.7	3081.9	3141.1	3173.7
6902.9	27.5°	6509.3	5918.1	3855.1	2651.0	2640.1	2755.2	2857.9	2927.9	2959.0	2983.9
7374.2	30°	6871.7	6123.4	3516.0	2487.6	2535.9	2644.8	2717.9	2749.0	2758.3	2763.0
7900.1	32.5°	7263.8	6300.8	3159.7	2352.3	2436.3	2537.4	2581.0	2595.0	2551.4	2521.9
8537.9	35°	7738.3	6490.6	2811.2	2244.9	2338.3	2425.4	2439.4	2427.0	2375.6	2315.0
9337.6	37.5°	8324.8	6727.1	2532.8	2168.7	2246.5	2304.1	2286.9	2283.8	2288.5	2216.9
10299.1	40°	9043.6	7035.1	2329.0	2109.6	2171.8	2184.3	2136.0	2162.5	2185.8	2076.9
11353.8	42.5°	9841.7	7406.9	2199.8	2069.1	2109.6	2080.0	2005.4	2034.9	2031.8	1888.7
12413.3	45°	10655.3	7811.4	2154.7	2039.6	2052.0	1992.9	1910.5	1918.2	1852.9	1723.8
13429.2	47.5°	11464.3	8245.5	2182.7	2014.7	1980.5	1913.6	1849.8	1815.6	1719.1	1622.6
14403.1	50°	12257.7	8701.3	2285.4	1964.9	1882.5	1843.6	1796.9	1736.2	1633.5	1551.1
15324.1	52.5°	12993.6	9160.2	2400.5	1882.5	1759.6	1782.9	1753.3	1683.3	1582.2	1498.2
16195.3	55°	13690.6	9619.2	2445.6	1768.9	1644.4	1730.0	1712.9	1583.8	1462.4	1394.0
17107.0	57.5°	14449.8	10171.5	2395.9	1624.2	1551.1	1669.3	1604.0	1460.8	1390.8	1339.5
18294.0	60°	15501.5	11038.0	2288.5	1445.3	1462.4	1579.1	1467.1	1408.0	1331.7	1274.2
20073.8	62.5°	17248.6	12654.5	2115.8	1267.9	1358.2	1445.3	1401.7	1342.6	1264.8	1208.8
23116.9	65°	19831.1	14901.0	1790.7	1129.5	1241.5	1314.6	1331.7	1272.6	1191.7	1132.6
25783.4	67.5°	22009.2	16310.5	1355.1	1014.3	1121.7	1208.8	1257.0	1199.5	1113.9	1056.4
26407.3	70°	21889.4	15286.8	1034.6	900.8	1015.9	1104.6	1166.8	1121.7	1029.9	975.5
23986.5	72.5°	19442.2	12788.2	837.0	785.7	908.6	995.7	1070.4	1036.1	942.8	889.9
17572.2	75°	14283.3	9077.8	669.0	669.0	774.8	882.1	964.6	942.8	857.2	819.9
7377.4	77.5°	6020.7	3808.5	524.3	555.4	644.1	757.6	860.3	868.1	793.4	840.1
1950.9	80°	1600.9	1050.1	399.8	437.2	505.6	625.4	748.3	745.2	664.3	620.7
725.0	82.5°	609.9	413.8	284.7	308.0	365.6	479.2	592.7	611.4	530.5	458.9
284.7	85°	234.9	177.4	175.8	185.1	213.1	317.4	448.1	463.6	399.8	339.2
79.3	87.5°	60.7	52.9	65.3	62.2	98.0	169.6	256.7	266.0	244.3	141.6
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>
4298.5
4101.0
3800.7
3526.9
3362.0
3315.3
3352.6
3405.5
3405.5
3327.7
3183.1
2993.3
2773.9
2531.2
2318.1
2221.6
2080.0
1887.1
1728.4
1622.6
1544.9
1499.7
1387.7
1334.8
1271.0
1208.8
1135.7
1057.9
980.1
889.9
809.0
762.3
577.2
458.9
350.0
202.2
0.0

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