

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: P942875

Luminaire Tested: **GALN-SB7A-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942875
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-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28402 lumens
Efficiency: N/A
Efficacy: 142.7 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

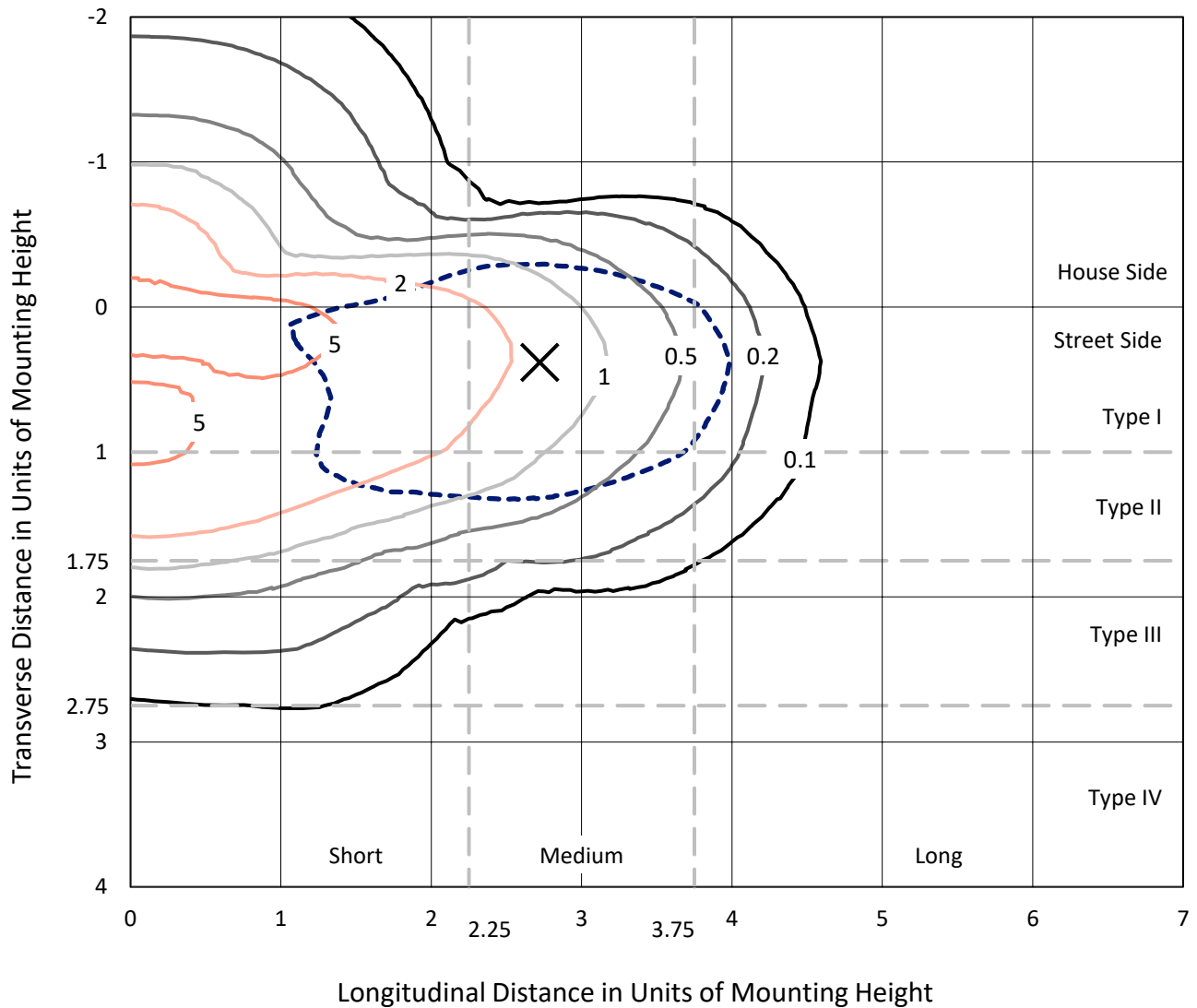
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

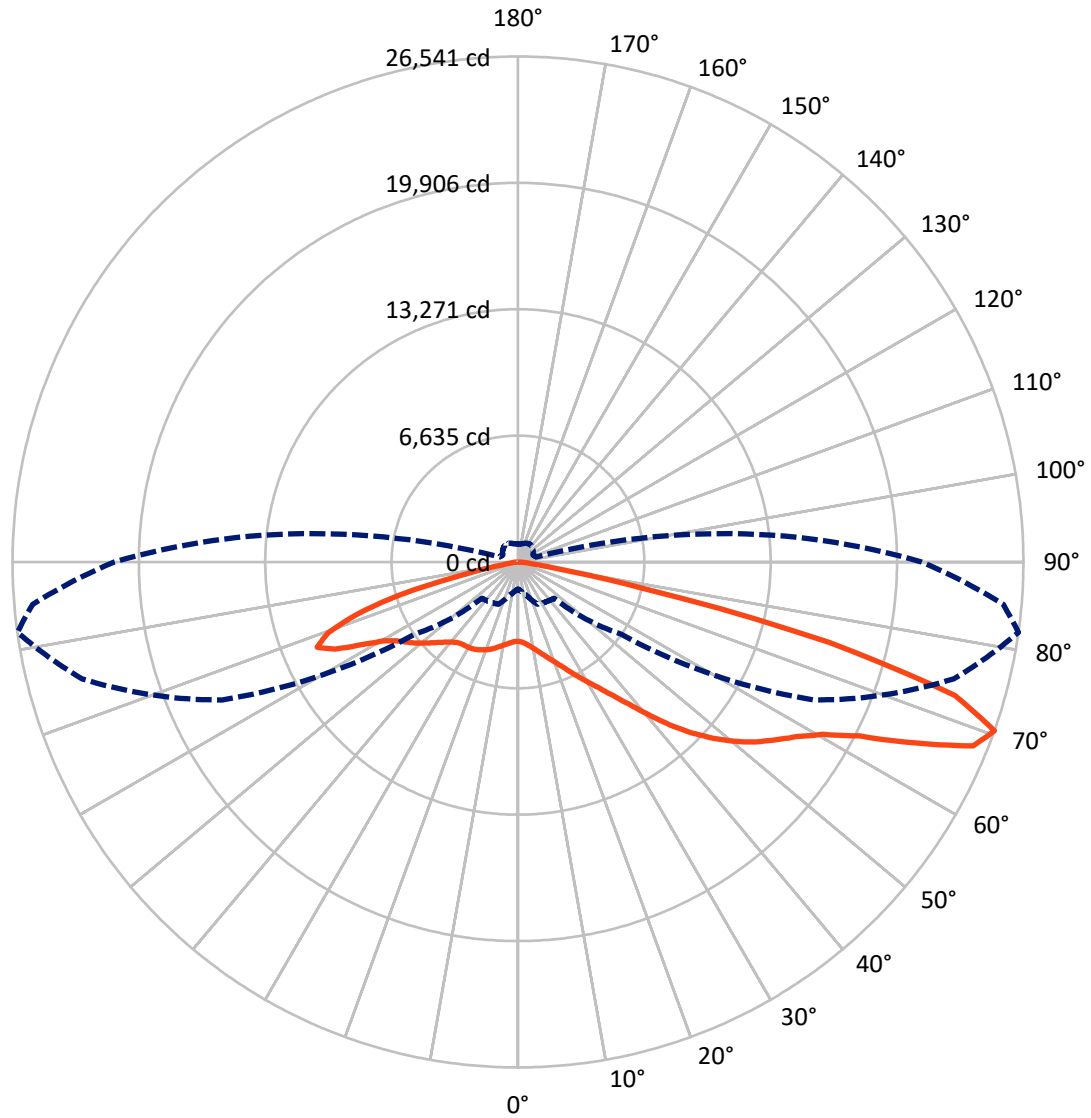
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	7001.8	0.0	7001.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	21400.2	0.0	21400.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	28402.0	0.0	28402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.2	1.4
10°-20°	1129.6	4.0
20°-30°	1889.7	6.7
30°-40°	2952.2	10.4
40°-50°	4701.7	16.6
50°-60°	6542.9	23.0
60°-70°	6844.2	24.1
70°-80°	3577.1	12.6
80°-90°	371.4	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°	28402.0	100.0
0°-180°	28402.0	100.0

Coefficient of Utilization



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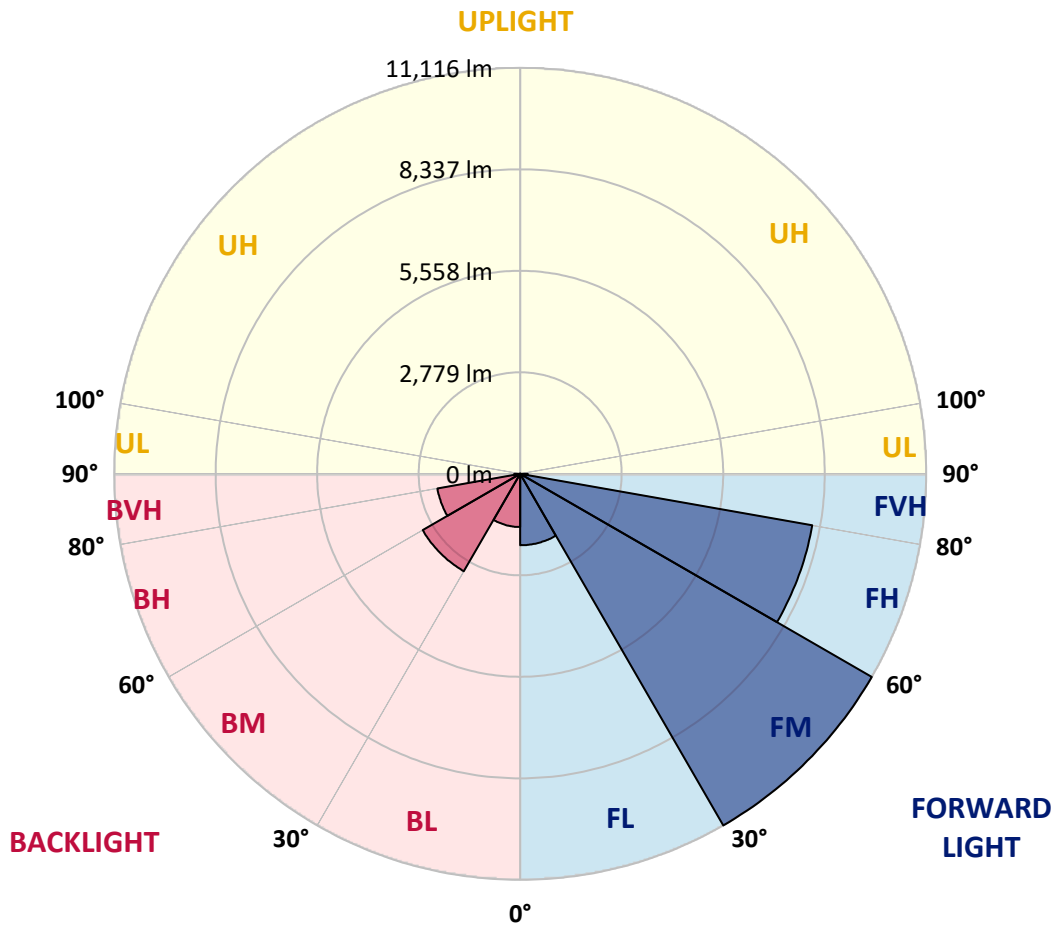
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1955.8	6.9			
FM (30°-60°)	11116.3	39.1			
FH (60°-80°)	8120.2	28.6			G4/12000
FVH (80°-90°)	207.9	0.7			G2/225
BL (0°-30°)	1456.6	5.1	B3/2500		
BM (30°-60°)	3080.5	10.8	B3/5000		
BH (60°-80°)	2301.1	8.1	B3/2500		G3/2500
BVH (80°-90°)	163.5	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°	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1
2.5°	4263.6	4287.7	4280.1	4272.6	4272.6	4262.0	4260.5	4245.5	4233.4	4213.8
5°	4317.8	4343.4	4340.4	4346.4	4366.0	4370.6	4375.1	4366.0	4341.9	4317.8
7.5°	4269.6	4298.2	4307.3	4343.4	4403.7	4458.0	4498.7	4515.2	4492.6	4458.0
10°	4106.8	4138.5	4170.1	4256.0	4363.0	4491.1	4599.6	4664.4	4659.9	4626.8
12.5°	3776.8	3809.9	3877.7	4045.0	4240.9	4467.0	4669.0	4804.6	4851.3	4827.2
15°	3513.0	3541.7	3592.9	3764.7	4019.4	4363.0	4694.6	4958.3	5077.4	5063.8
17.5°	3505.5	3517.5	3549.2	3630.6	3826.5	4200.3	4667.5	5109.0	5336.6	5335.1
20°	3638.1	3642.6	3660.7	3677.3	3788.8	4076.7	4598.1	5234.1	5627.5	5627.5
22.5°	3822.0	3819.0	3837.0	3822.0	3876.2	4066.1	4554.4	5344.1	5951.5	5975.6
25°	4097.8	4082.7	4078.2	4043.5	4054.1	4164.1	4602.7	5469.2	6335.8	6385.5
27.5°	4465.5	4441.4	4424.8	4344.9	4317.8	4366.0	4750.3	5619.9	6763.8	6849.7
30°	4944.8	4901.1	4876.9	4738.3	4640.3	4647.9	4973.4	5820.4	7211.4	7350.1
32.5°	5598.8	5531.0	5466.2	5238.6	5059.3	5000.5	5261.2	6097.7	7696.7	7918.2
35°	6331.3	6277.0	6207.7	5856.5	5580.8	5445.1	5650.1	6485.0	8264.9	8616.0
37.5°	7036.6	6989.9	7023.0	6549.8	6194.1	5996.7	6159.5	7005.0	8965.7	9484.1
40°	7766.0	7729.9	7734.4	7282.3	6867.8	6646.3	6777.4	7657.5	9769.0	10516.5
42.5°	8558.8	8531.6	8441.2	8040.3	7574.6	7368.2	7488.7	8411.1	10631.0	11692.0
45°	9446.4	9429.9	9345.5	8885.8	8352.3	8120.2	8283.0	9243.0	11497.6	12798.2
47.5°	10213.5	10227.1	10216.6	9829.2	9276.1	8935.5	9129.9	10111.1	12303.9	13838.1
50°	10582.8	10653.6	10757.6	10637.0	10293.4	9946.8	9984.5	10949.0	13072.5	14813.2
52.5°	10389.9	10524.0	10807.3	11000.2	11132.9	11060.5	10959.6	11780.9	13795.9	15693.3
55°	9671.0	9859.4	10329.6	10795.3	11472.0	11997.9	12130.6	12703.3	14501.2	16468.0
57.5°	8361.3	8667.3	9089.3	10031.2	11170.5	12451.6	13496.0	13982.8	15248.7	17295.4
60°	6115.8	6525.7	7050.2	8451.8	10115.6	12208.9	14658.0	15948.0	16311.2	18366.9
62.5°	3913.9	4167.1	4649.4	5969.6	7882.1	10965.6	15013.6	18404.6	18112.2	20124.2
65°	2679.6	2842.4	3283.9	4025.4	5095.5	8162.4	14061.1	20246.2	20972.7	22909.3
67.5°	1947.2	2070.7	2447.5	3097.1	3320.1	4830.2	10911.3	20161.8	23753.2	25778.8
70°	1419.7	1507.1	1823.6	2447.5	2554.5	2687.1	6610.1	17138.6	23693.0	26541.4
72.5°	1051.9	1112.2	1324.7	1898.9	2067.7	1814.5	3271.9	12456.1	20359.3	24006.4
75°	761.1	806.3	963.0	1452.8	1654.8	1382.0	1632.2	7279.2	14201.3	16886.9
77.5°	581.7	616.4	718.9	1064.0	1324.7	1036.9	1012.8	3348.8	6733.7	6766.8
80°	467.2	489.8	545.6	749.0	1015.8	776.2	660.1	1351.9	2128.0	1801.0
82.5°	343.6	381.3	461.2	526.0	726.4	535.0	402.4	682.7	809.3	696.3
85°	195.9	221.5	278.8	376.8	464.2	327.0	230.6	302.9	376.8	309.0
87.5°	69.3	90.4	98.0	147.7	201.9	135.6	88.9	87.4	123.6	91.9
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°
4164.1	0°	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1
4209.3	2.5°	4194.2	4186.7	4156.6	4115.9	4073.7	4033.0	4019.4	3990.8	3971.2	3960.6
4307.3	5°	4278.6	4254.5	4183.7	4093.3	3998.3	3895.8	3823.5	3757.2	3708.9	3663.7
4441.4	7.5°	4399.2	4357.0	4234.9	4076.7	3907.9	3737.6	3611.0	3514.5	3449.7	3407.5
4598.1	10°	4539.4	4474.5	4287.7	4051.1	3790.3	3546.2	3397.0	3314.1	3273.4	3250.8
4777.5	12.5°	4700.6	4608.7	4341.9	3992.3	3611.0	3332.2	3229.7	3205.6	3207.1	3208.6
5003.5	15°	4899.5	4771.4	4385.6	3864.2	3377.4	3167.9	3149.8	3189.0	3229.7	3249.3
5259.7	17.5°	5124.1	4943.3	4393.2	3653.2	3148.3	3062.4	3119.7	3204.1	3265.9	3293.0
5546.1	20°	5365.2	5118.1	4338.9	3354.8	2959.9	2976.5	3079.0	3187.5	3255.3	3290.0
5873.1	22.5°	5641.0	5305.0	4209.3	3041.3	2806.2	2883.1	3003.6	3109.1	3180.0	3214.6
6257.4	25°	5956.0	5514.4	4005.8	2777.6	2673.6	2777.6	2898.1	2985.5	3042.8	3074.5
6687.0	27.5°	6305.7	5733.0	3734.6	2568.1	2557.5	2669.1	2768.5	2836.3	2866.5	2890.6
7143.6	30°	6656.8	5931.9	3406.0	2409.8	2456.6	2562.1	2632.9	2663.0	2672.1	2676.6
7653.0	32.5°	7036.6	6103.7	3060.9	2278.7	2360.1	2458.1	2500.3	2513.8	2471.6	2443.0
8270.9	35°	7496.3	6287.6	2723.3	2174.7	2265.2	2349.6	2363.1	2351.1	2301.3	2242.5
9045.6	37.5°	8064.4	6516.7	2453.5	2100.9	2176.2	2232.0	2215.4	2212.4	2216.9	2147.6
9976.9	40°	8760.7	6815.1	2256.1	2043.6	2103.9	2116.0	2069.2	2094.9	2117.5	2012.0
10998.7	42.5°	9533.8	7175.3	2131.0	2004.4	2043.6	2015.0	1942.6	1971.3	1968.3	1829.6
12025.1	45°	10322.1	7567.1	2087.3	1975.8	1987.9	1930.6	1850.7	1858.2	1794.9	1669.9
13009.2	47.5°	11105.7	7987.6	2114.4	1951.7	1918.5	1853.7	1791.9	1758.8	1665.3	1571.9
13952.6	50°	11874.4	8429.2	2213.9	1903.5	1823.6	1785.9	1740.7	1681.9	1582.4	1502.6
14844.8	52.5°	12587.2	8873.7	2325.4	1823.6	1704.5	1727.1	1698.5	1630.7	1532.7	1451.3
15688.8	55°	13262.4	9318.3	2369.1	1713.6	1593.0	1675.9	1659.3	1534.2	1416.7	1350.4
16572.0	57.5°	13997.8	9853.4	2320.9	1573.4	1502.6	1617.1	1553.8	1415.2	1347.3	1297.6
17721.9	60°	15016.6	10692.8	2216.9	1400.1	1416.7	1529.7	1421.2	1363.9	1290.1	1234.3
19446.0	62.5°	16709.1	12258.7	2049.6	1228.3	1315.7	1400.1	1357.9	1300.6	1225.3	1171.0
22393.8	65°	19210.9	14434.9	1734.7	1094.1	1202.7	1273.5	1290.1	1232.8	1154.4	1097.2
24977.0	67.5°	21320.8	15800.3	1312.7	982.6	1086.6	1171.0	1217.7	1162.0	1079.1	1023.3
25581.3	70°	21204.7	14808.7	1002.2	872.6	984.1	1070.0	1130.3	1086.6	997.7	944.9
23236.3	72.5°	18834.1	12388.3	810.8	761.1	880.1	964.5	1036.9	1003.7	913.3	862.1
17022.6	75°	13836.6	8793.9	648.0	648.0	750.5	854.5	934.4	913.3	830.4	794.2
7146.6	77.5°	5832.4	3689.4	507.9	538.0	623.9	734.0	833.4	841.0	768.6	813.8
1889.9	80°	1550.8	1017.3	387.3	423.5	489.8	605.8	724.9	721.9	643.5	601.3
702.3	82.5°	590.8	400.9	275.8	298.4	354.2	464.2	574.2	592.3	513.9	444.6
275.8	85°	227.6	171.8	170.3	179.3	206.5	307.4	434.0	449.1	387.3	328.5
76.9	87.5°	58.8	51.2	63.3	60.3	94.9	164.3	248.7	257.7	236.6	137.1
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>
4164.1
3972.7
3681.8
3416.6
3256.8
3211.6
3247.8
3299.0
3299.0
3223.7
3083.5
2899.6
2687.1
2452.0
2245.6
2152.1
2015.0
1828.1
1674.4
1571.9
1496.5
1452.8
1344.3
1293.1
1231.3
1171.0
1100.2
1024.8
949.5
862.1
783.7
738.5
559.1
444.6
339.1
195.9
0.0

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