

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: P955012

Luminaire Tested: **GALN-SB8A-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

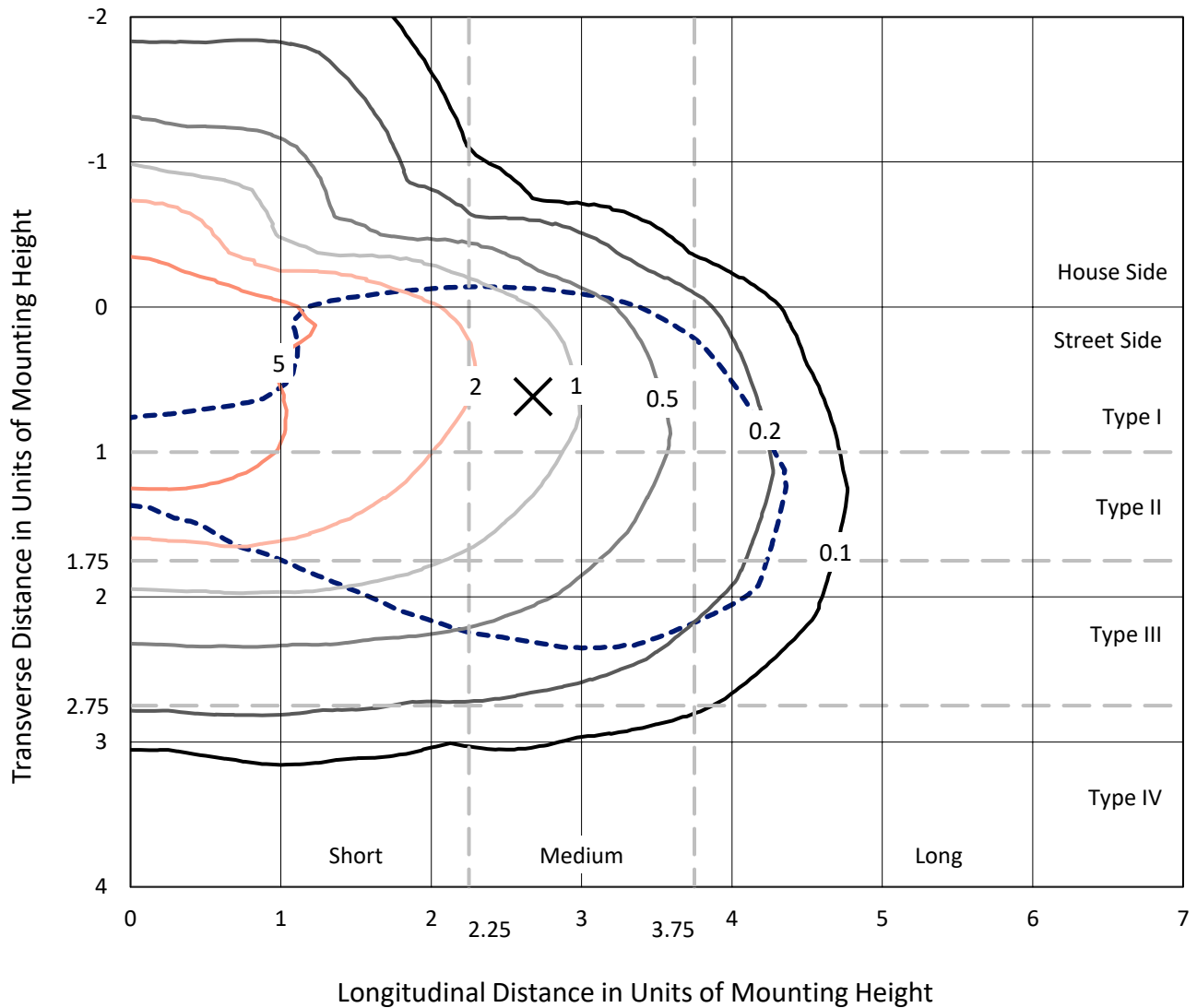
Lumens per Lamp: N/A  
Luminaire Lumens: 33460 lumens  
Efficiency: N/A  
Efficacy: 147.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

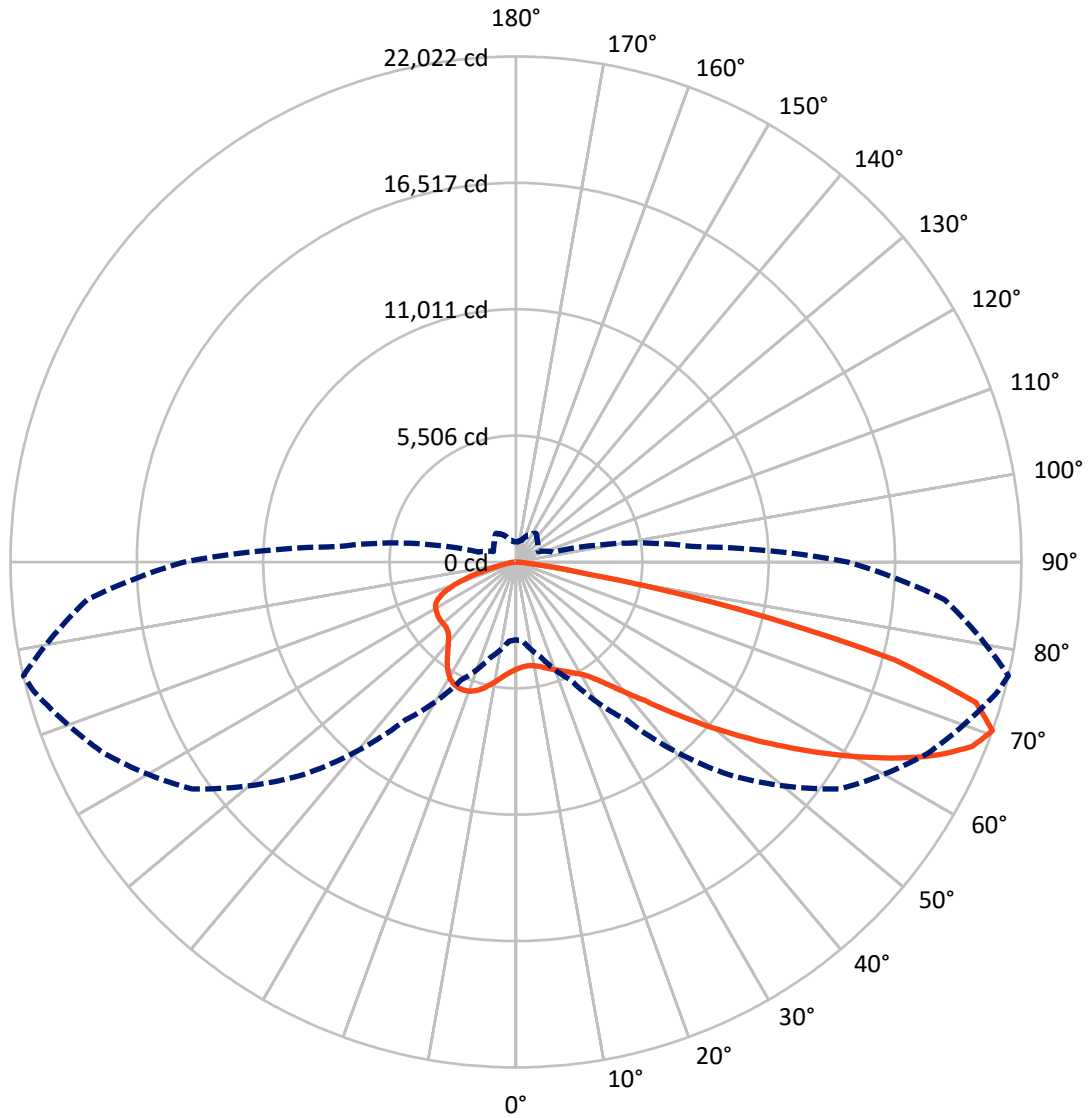
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7327.2	0.0	7327.2
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	26132.8	0.0	26132.8
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	33460.0	0.0	33460.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.2	1.3
10°-20°	1284.9	3.8
20°-30°	2197.3	6.6
30°-40°	3533.5	10.6
40°-50°	5516.8	16.5
50°-60°	7369.1	22.0
60°-70°	7854.3	23.5
70°-80°	4835.1	14.5
80°-90°	423.7	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°	33460.0	100.0
0°-180°	33460.0	100.0



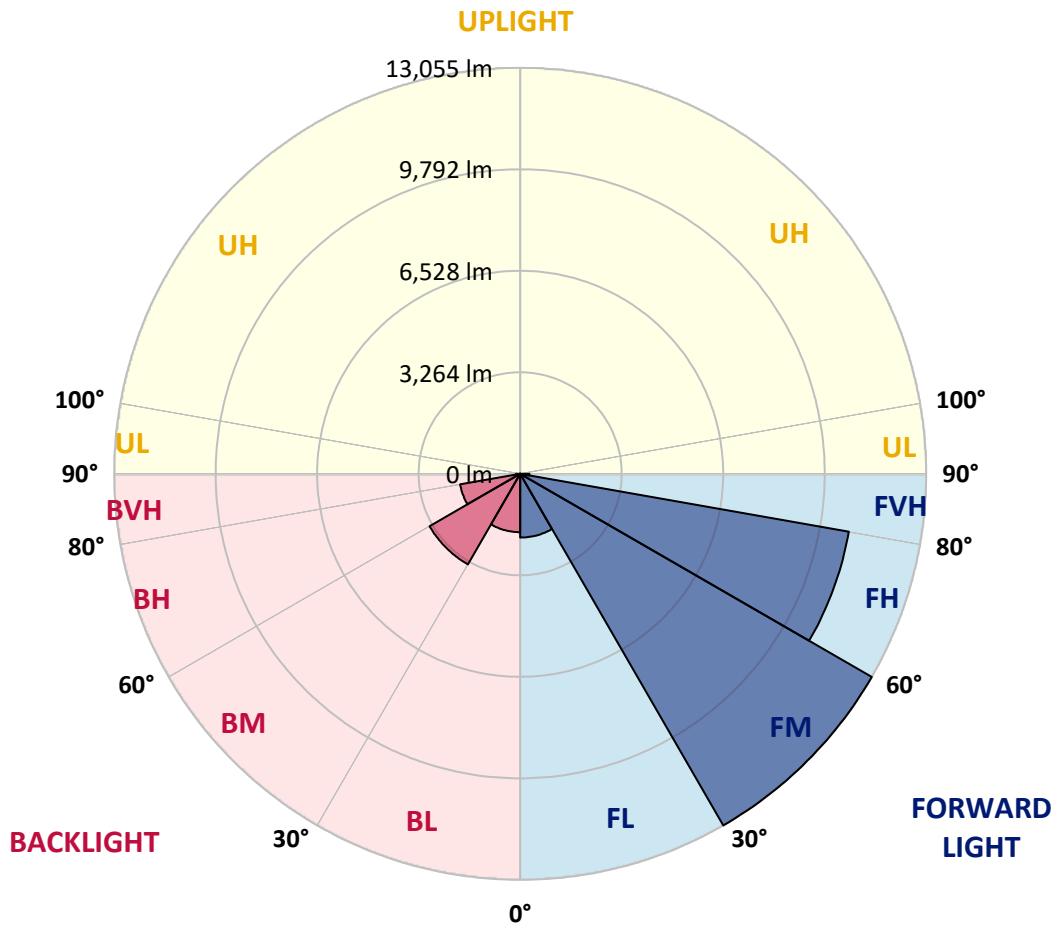
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2050.0	6.1			
FM (30°-60°)	13055.4	39.0			
FH (60°-80°)	10731.2	32.1			G4/12000
FVH (80°-90°)	296.3	0.9			G3/500
BL (0°-30°)	1877.5	5.6	B3/2500		
BM (30°-60°)	3364.1	10.1	B3/5000		
BH (60°-80°)	1958.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	127.4	0.4			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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4668.0	4668.0	4668.0	4668.0	4668.0	4668.0	4668.0	4668.0	4668.0	4668.0
2.5°	4303.0	4301.3	4323.5	4330.4	4371.5	4400.6	4455.5	4513.7	4589.1	4597.7
5°	4054.5	4054.5	4080.2	4107.6	4160.7	4219.0	4303.0	4404.1	4534.3	4554.9
7.5°	3843.7	3857.4	3879.7	3932.8	3994.5	4078.5	4207.0	4351.0	4522.3	4554.9
10°	3674.1	3689.5	3716.9	3759.7	3852.3	3968.8	4136.7	4321.8	4551.4	4602.9
12.5°	3620.9	3636.4	3651.8	3684.3	3770.0	3907.1	4107.6	4335.5	4621.7	4673.1
15°	3744.3	3763.2	3751.2	3742.6	3787.2	3912.3	4121.3	4385.2	4709.1	4782.8
17.5°	4028.8	4035.6	4008.2	3927.7	3920.8	3987.7	4186.4	4453.8	4818.8	4899.3
20°	4488.0	4476.0	4419.5	4260.1	4169.3	4155.6	4297.8	4556.6	4931.9	5017.6
22.5°	5111.8	5098.1	4985.0	4733.1	4530.9	4397.2	4458.9	4690.3	5058.7	5154.7
25°	5889.8	5871.0	5704.7	5362.0	5048.4	4717.7	4678.3	4866.8	5214.6	5303.7
27.5°	6798.0	6782.6	6602.7	6150.3	5697.9	5156.4	4950.7	5074.1	5377.4	5478.5
30°	7774.8	7819.4	7500.6	7014.0	6441.6	5728.7	5317.4	5329.4	5588.2	5679.0
32.5°	8923.0	9000.1	8616.2	7999.3	7217.9	6350.8	5780.1	5685.9	5894.9	5970.3
35°	10060.8	10148.2	9829.5	9147.4	8247.8	7084.2	6263.4	6095.4	6302.8	6385.0
37.5°	11044.5	11161.0	10996.5	10403.6	9349.7	7968.5	6894.0	6577.0	6804.9	6907.7
40°	11820.7	11999.0	11987.0	11616.8	10648.6	9041.2	7694.3	7171.6	7428.7	7540.0
42.5°	12451.4	12605.6	12739.3	12720.4	12004.1	10259.6	8635.1	7944.5	8139.8	8268.3
45°	12886.6	13051.1	13339.0	13649.2	13308.2	11563.7	9713.0	8861.3	9039.5	9233.1
47.5°	13275.6	13462.4	13836.0	14327.8	14415.2	12872.9	10893.7	9928.9	10091.7	10292.2
50°	13309.9	13471.0	14050.2	14747.6	15201.8	14130.7	12161.8	11126.7	11279.2	11493.4
52.5°	12482.2	12735.8	13746.9	14735.7	15563.3	15182.9	13421.3	12372.5	12543.9	12800.9
55°	9689.0	10060.8	12857.5	14276.4	15434.8	15863.2	14619.1	13697.2	13916.5	14185.6
57.5°	8345.5	8508.3	10206.5	13440.1	14848.8	16039.7	15630.2	15035.5	15388.6	15683.3
60°	7500.6	7636.0	8640.2	12139.5	14077.6	15760.4	16411.6	16283.1	16893.1	17244.4
62.5°	6595.8	6724.4	7637.7	10136.2	13090.6	15296.0	16905.1	17434.6	18435.4	18819.3
65°	5697.9	5807.6	6683.2	8516.8	11836.2	14831.6	17160.5	18430.3	19862.9	20260.5
67.5°	4697.1	4787.9	5615.6	7185.3	10311.0	14195.9	17287.3	19213.4	21105.3	21446.3
70°	3389.6	3459.9	4315.0	5682.5	8396.9	13102.5	17235.9	19768.6	21749.6	22022.1
72.5°	1602.3	1665.7	2669.9	3689.5	5930.9	10974.2	16195.7	19328.2	21095.0	20959.6
75°	855.1	909.9	1533.7	2023.8	3132.5	7522.9	13253.3	16649.8	17714.0	17055.9
77.5°	579.2	622.1	949.4	1215.0	1430.9	3571.2	8518.5	11527.7	11090.7	10004.3
80°	459.3	503.8	778.0	822.6	692.3	1290.4	3519.8	5336.3	3833.4	3065.7
82.5°	353.0	402.7	654.6	596.3	377.0	529.5	1024.8	1687.9	981.9	747.2
85°	215.9	269.0	514.1	380.4	212.5	241.6	347.9	469.5	299.9	250.2
87.5°	109.7	154.2	260.5	138.8	96.0	56.6	92.5	92.5	78.8	68.5
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°
4668.0	0°	4668.0	4668.0	4668.0	4668.0	4668.0	4668.0	4668.0	4668.0	4668.0	4668.0
4644.0	2.5°	4685.1	4719.4	4777.6	4832.5	4875.3	4916.5	4957.6	4979.9	4986.7	5014.1
4669.7	5°	4739.9	4803.4	4916.5	5022.7	5089.5	5130.7	5159.8	5176.9	5180.4	5188.9
4739.9	7.5°	4841.1	4942.2	5099.8	5206.1	5255.8	5252.3	5240.3	5197.5	5180.4	5164.9
4842.8	10°	4983.3	5117.0	5310.6	5384.3	5353.4	5271.2	5164.9	5039.8	4981.6	4925.0
4983.3	12.5°	5159.8	5329.4	5519.7	5516.2	5363.7	5152.9	4906.2	4714.2	4592.6	4505.2
5156.4	15°	5374.0	5569.4	5715.0	5598.5	5264.3	4885.6	4524.0	4273.8	4164.2	4068.2
5331.2	17.5°	5595.1	5804.1	5871.0	5572.8	5014.1	4489.8	4080.2	3883.1	3775.2	3723.8
5519.7	20°	5811.0	6018.3	5963.5	5425.4	4633.7	4040.8	3675.8	3567.8	3545.5	3557.5
5703.0	22.5°	6038.9	6224.0	5982.3	5140.9	4148.7	3581.5	3381.0	3384.5	3434.1	3470.1
5894.9	25°	6271.9	6397.0	5932.6	4729.7	3627.8	3243.9	3194.2	3249.1	3346.8	3417.0
6110.9	27.5°	6496.4	6551.3	5824.7	4220.7	3180.5	3002.3	3010.9	3124.0	3271.4	3369.0
6373.1	30°	6750.1	6688.4	5617.3	3648.4	2870.4	2795.0	2866.9	2998.9	3146.3	3233.7
6703.8	32.5°	7036.2	6806.6	5288.3	3118.8	2651.0	2628.7	2747.0	2832.7	2897.8	2923.5
7142.5	35°	7392.7	6972.8	4866.8	2747.0	2453.9	2507.1	2620.2	2577.3	2551.6	2537.9
7732.0	37.5°	7855.4	7197.3	4373.2	2505.4	2294.6	2419.7	2465.9	2332.3	2231.2	2181.5
8446.6	40°	8412.3	7526.3	3898.5	2318.6	2193.5	2344.3	2263.7	2102.6	1974.1	1903.9
9250.3	42.5°	9030.9	7870.8	3499.3	2178.0	2136.9	2282.6	2114.6	1922.7	1715.4	1693.1
10208.2	45°	9680.4	8225.5	3226.8	2070.1	2109.5	2229.5	2029.0	1718.8	1571.4	1662.2
11169.6	47.5°	10329.9	8551.1	3062.3	1989.5	2095.8	2169.5	1953.6	1605.7	1501.2	1633.1
12199.5	50°	11053.0	8842.4	2988.6	1931.3	2080.4	2145.5	1840.5	1576.6	1427.5	1514.9
13265.3	52.5°	11771.0	9068.6	2933.8	1873.0	2058.1	2126.6	1785.6	1542.3	1338.4	1343.5
14338.1	55°	12487.3	9216.0	2873.8	1795.9	2008.4	2085.5	1780.5	1504.6	1271.5	1247.5
15472.5	57.5°	13251.6	9300.0	2800.1	1710.2	1922.7	1981.0	1775.3	1475.5	1251.0	1211.5
16632.7	60°	14029.6	9423.3	2704.1	1605.7	1807.9	1855.9	1763.3	1465.2	1239.0	1172.1
17726.0	62.5°	14727.1	9466.2	2589.3	1506.3	1660.5	1732.5	1737.6	1456.6	1206.4	1091.6
18634.2	65°	15184.6	9281.1	2388.8	1393.2	1501.2	1605.7	1687.9	1427.5	1148.1	1033.3
19083.2	67.5°	15165.8	8753.3	2075.2	1247.5	1346.9	1465.2	1616.0	1377.8	1077.9	961.4
18743.9	70°	14459.8	7711.4	1677.7	1077.9	1177.3	1314.4	1523.4	1304.1	993.9	882.5
16666.9	72.5°	12401.7	6035.5	1218.4	879.1	980.2	1158.4	1403.5	1215.0	908.2	812.3
12317.7	75°	8859.6	3819.7	826.0	675.2	762.6	981.9	1254.4	1110.4	829.4	815.7
6169.1	77.5°	4525.7	1825.0	546.7	493.5	531.2	774.6	1053.9	992.2	841.4	673.5
1754.8	80°	1472.0	673.5	344.4	335.9	353.0	515.8	815.7	814.0	637.5	457.5
425.0	82.5°	469.5	289.6	224.5	215.9	207.4	323.9	568.9	644.3	430.1	289.6
152.5	85°	186.8	173.1	132.0	121.7	87.4	152.5	298.2	428.4	320.5	209.1
39.4	87.5°	68.5	68.5	36.0	25.7	18.9	51.4	80.5	128.5	183.4	108.0
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>
4668.0
5029.6
5202.6
5168.4
4907.9
4484.6
4057.9
3739.2
3552.4
3478.7
3435.9
3393.0
3254.2
2937.2
2551.6
2193.5
1909.0
1715.4
1710.2
1694.8
1580.0
1379.5
1264.7
1216.7
1177.3
1091.6
1033.3
966.5
<i>892.8</i>
807.1
769.4
599.8
404.4
287.9
214.2
106.2
0.0

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