

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: P950371

Luminaire Tested: **GALN-SB4D-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950371  
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-SB4D-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

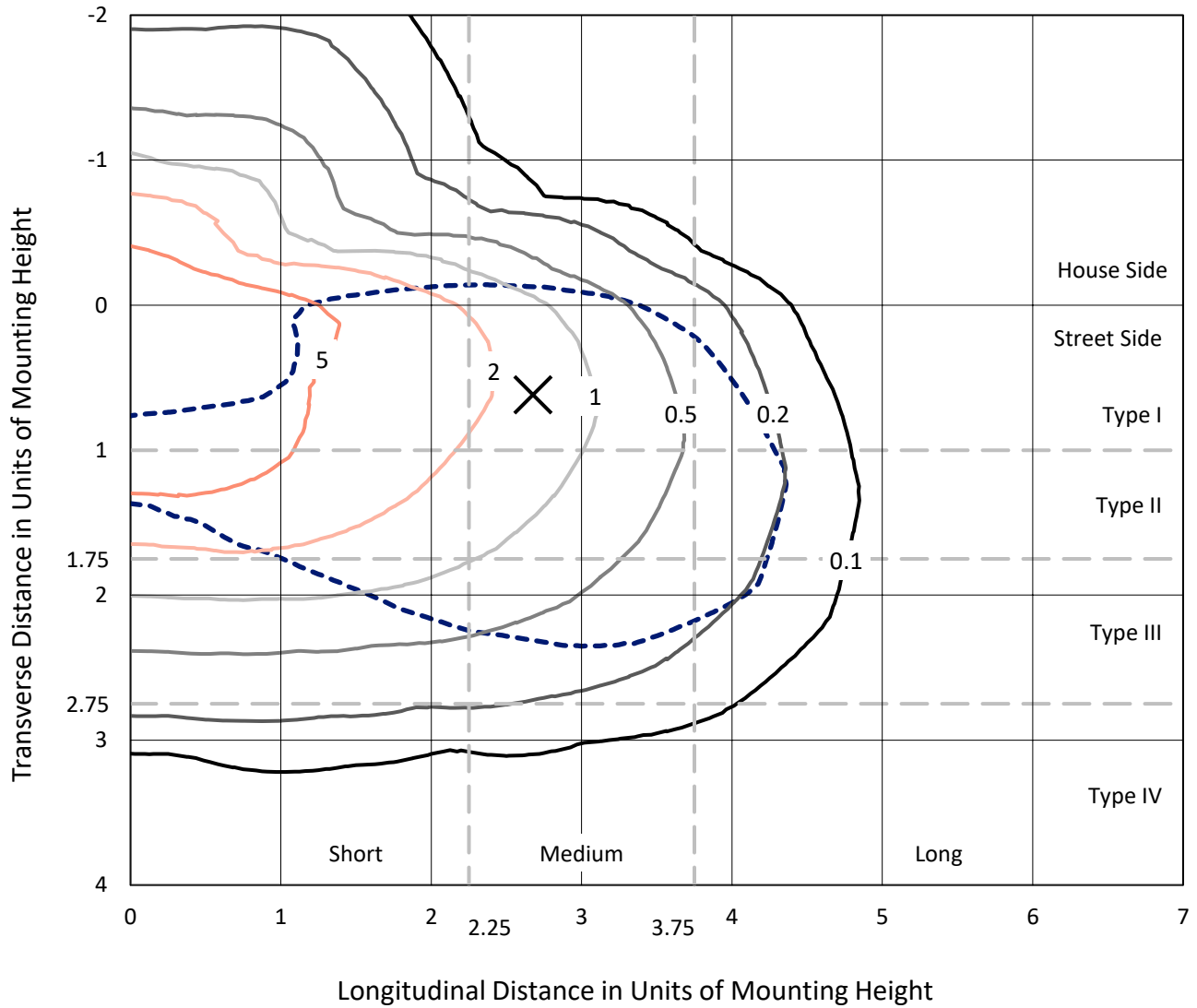
Lumens per Lamp: N/A  
Luminaire Lumens: 37620 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

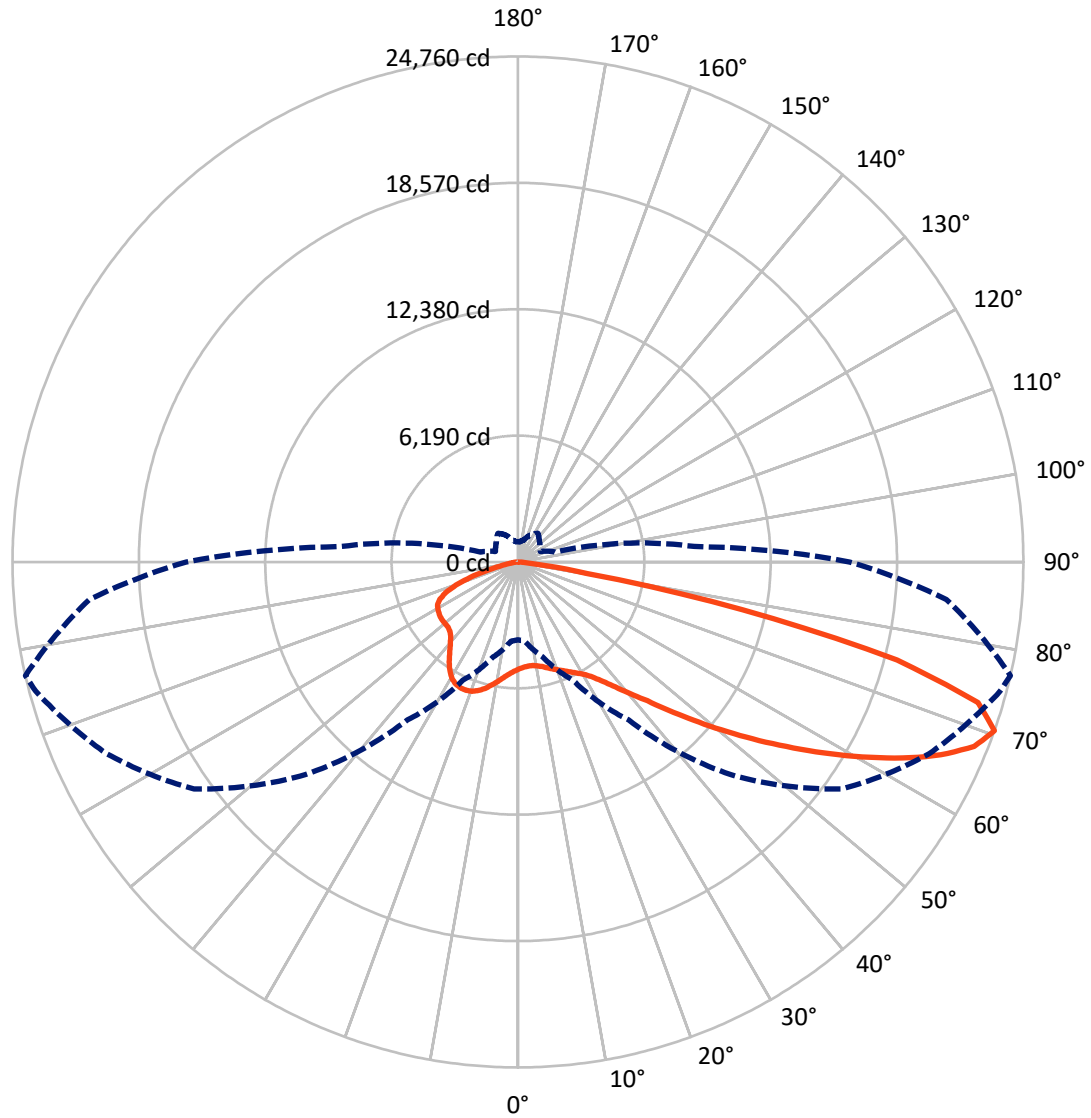
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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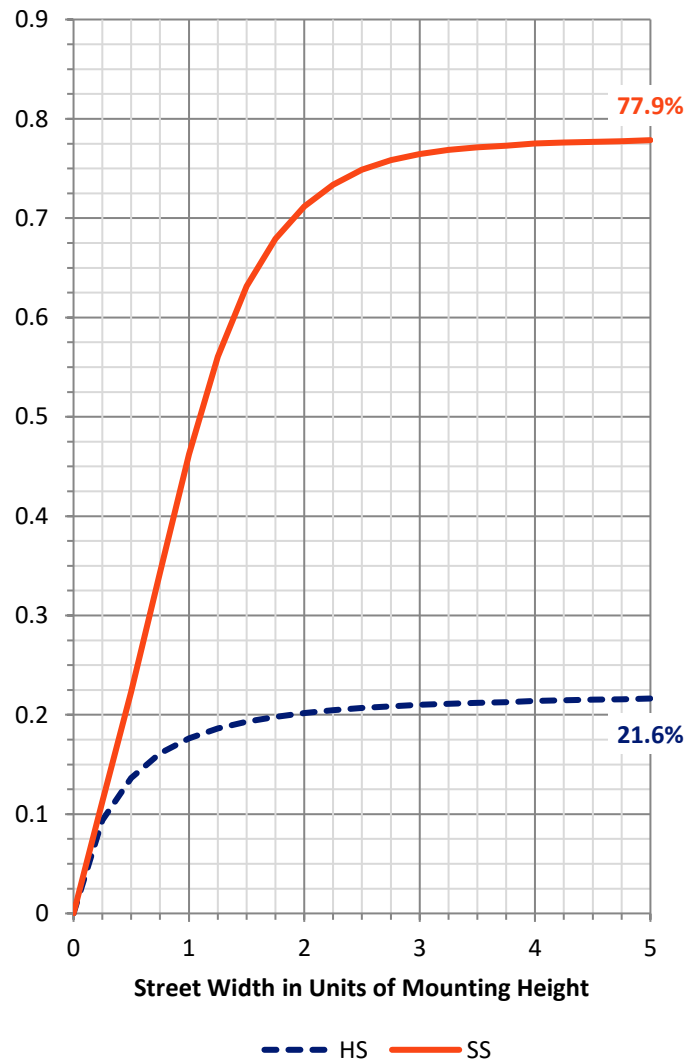
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8238.2	0.0	8238.2
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	29381.8	0.0	29381.8
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	37620.0	0.0	37620.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.5	1.3
10°-20°	1444.6	3.8
20°-30°	2470.5	6.6
30°-40°	3972.9	10.6
40°-50°	6202.7	16.5
50°-60°	8285.3	22.0
60°-70°	8830.9	23.5
70°-80°	5436.2	14.5
80°-90°	476.4	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°	37620.0	100.0
0°-180°	37620.0	100.0



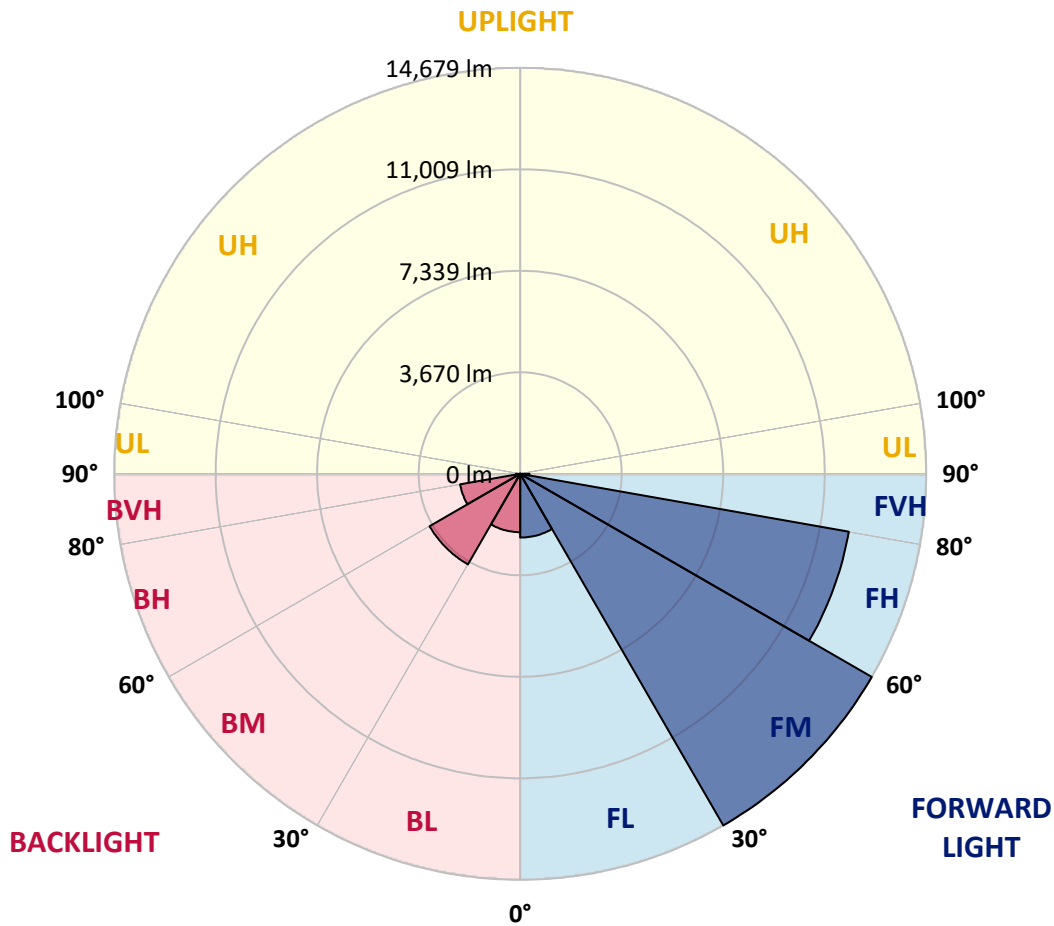
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2304.8	6.1			
FM (30°-60°)	14678.5	39.0			
FH (60°-80°)	12065.4	32.1			G5
FVH (80°-90°)	333.1	0.9			G3/500
BL (0°-30°)	2110.9	5.6	B3/2500		
BM (30°-60°)	3782.3	10.1	B3/5000		
BH (60°-80°)	2201.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	143.3	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-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3
2.5°	4837.9	4836.0	4861.1	4868.8	4915.0	4947.8	5009.4	5074.9	5159.7	5169.3
5°	4558.6	4558.6	4587.5	4618.3	4678.0	4743.5	4837.9	4951.6	5098.1	5121.2
7.5°	4321.6	4337.0	4362.1	4421.8	4491.1	4585.5	4730.1	4891.9	5084.6	5121.2
10°	4130.8	4148.2	4179.0	4227.2	4331.2	4462.2	4651.1	4859.1	5117.3	5175.1
12.5°	4071.1	4088.5	4105.8	4142.4	4238.7	4392.9	4618.3	4874.6	5196.3	5254.1
15°	4209.8	4231.0	4217.5	4207.9	4258.0	4398.7	4633.7	4930.4	5294.6	5377.4
17.5°	4529.7	4537.4	4506.6	4416.0	4408.3	4483.4	4706.9	5007.5	5417.9	5508.4
20°	5046.0	5032.5	4969.0	4789.8	4687.7	4672.2	4832.2	5123.1	5545.0	5641.4
22.5°	5747.3	5731.9	5604.8	5321.5	5094.2	4943.9	5013.3	5273.4	5687.6	5795.5
25°	6622.1	6600.9	6414.0	6028.6	5676.1	5304.2	5259.9	5471.8	5863.0	5963.1
27.5°	7643.2	7625.9	7423.6	6914.9	6406.3	5797.4	5566.2	5705.0	6046.0	6159.7
30°	8741.4	8791.5	8433.2	7886.0	7242.5	6441.0	5978.6	5992.0	6283.0	6385.1
32.5°	10032.3	10119.0	9687.5	8993.8	8115.3	7140.4	6498.8	6392.8	6627.9	6712.6
35°	11311.7	11409.9	11051.6	10284.7	9273.2	7965.0	7042.1	6853.3	7086.4	7178.9
37.5°	12417.6	12548.6	12363.6	11697.0	10512.1	8959.2	7751.1	7394.7	7650.9	7766.5
40°	13290.4	13490.8	13477.3	13061.1	11972.5	10165.3	8650.9	8063.2	8352.2	8477.5
42.5°	13999.4	14172.8	14323.1	14301.9	13496.5	11535.2	9708.6	8932.2	9151.8	9296.3
45°	14488.8	14673.8	14997.4	15346.2	14962.8	13001.4	10920.5	9963.0	10163.3	10381.1
47.5°	14926.2	15136.2	15556.2	16109.1	16207.4	14473.4	12248.0	11163.3	11346.3	11571.8
50°	14964.7	15145.8	15797.0	16581.2	17091.8	15887.6	13673.8	12510.1	12681.5	12922.4
52.5°	14034.1	14319.2	15456.0	16567.7	17498.3	17070.6	15089.9	13910.8	14103.5	14392.5
55°	10893.6	11311.7	14456.0	16051.3	17353.8	17835.5	16436.7	15400.1	15646.7	15949.2
57.5°	9383.0	9566.1	11475.4	15111.1	16694.9	18033.9	17573.4	16904.9	17301.8	17633.2
60°	8433.2	8585.4	9714.4	13648.7	15827.8	17719.9	18452.0	18307.5	18993.4	19388.4
62.5°	7415.9	7560.4	8587.3	11396.4	14718.1	17197.7	19006.9	19602.3	20727.4	21159.0
65°	6406.3	6529.6	7514.1	9575.7	13307.7	16675.6	19294.0	20721.7	22332.4	22779.4
67.5°	5281.1	5383.2	6313.8	8078.7	11593.0	15960.8	19436.6	21602.2	23729.2	24112.7
70°	3811.0	3890.0	4851.4	6388.9	9440.8	14731.6	19378.8	22226.4	24453.7	24760.0
72.5°	1801.5	1872.8	3001.8	4148.2	6668.3	12338.6	18209.2	21731.3	23717.7	23565.5
75°	961.4	1023.1	1724.4	2275.4	3522.0	8458.2	14901.1	18719.8	19916.3	19176.5
77.5°	651.2	699.4	1067.4	1366.0	1608.8	4015.2	9577.6	12960.9	12469.6	11248.1
80°	516.4	566.5	874.7	924.8	778.4	1450.8	3957.4	5999.7	4310.0	3446.9
82.5°	396.9	452.8	736.0	670.5	423.9	595.4	1152.2	1897.8	1104.0	840.0
85°	242.8	302.5	578.0	427.7	238.9	271.7	391.1	527.9	337.2	281.3
87.5°	123.3	173.4	292.9	156.1	107.9	63.6	104.0	104.0	88.6	77.1
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°
5248.3	0°	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3
5221.4	2.5°	5267.6	5306.1	5371.6	5433.3	5481.5	5527.7	5573.9	5599.0	5606.7	5637.5
5250.3	5°	5329.3	5400.5	5527.7	5647.2	5722.3	5768.5	5801.3	5820.6	5824.4	5834.1
5329.3	7.5°	5442.9	5556.6	5733.9	5853.3	5909.2	5905.3	5891.9	5843.7	5824.4	5807.1
5444.9	10°	5602.8	5753.1	5970.8	6053.7	6019.0	5926.5	5807.1	5666.4	5600.9	5537.3
5602.8	12.5°	5801.3	5992.0	6205.9	6202.1	6030.6	5793.6	5516.1	5300.4	5163.6	5065.3
5797.4	15°	6042.1	6261.8	6425.5	6294.5	5918.8	5493.0	5086.5	4805.2	4681.9	4574.0
5994.0	17.5°	6290.7	6525.7	6600.9	6265.6	5637.5	5048.0	4587.5	4365.9	4244.5	4186.7
6205.9	20°	6533.4	6766.6	6704.9	6099.9	5209.8	4543.2	4132.8	4011.4	3986.3	3999.8
6412.1	22.5°	6789.7	6997.8	6726.1	5780.1	4664.5	4026.8	3801.4	3805.2	3861.1	3901.6
6627.9	25°	7051.7	7192.4	6670.2	5317.7	4078.8	3647.2	3591.4	3653.0	3762.8	3841.8
6870.6	27.5°	7304.1	7365.8	6548.9	4745.5	3576.0	3375.6	3385.2	3512.4	3678.1	3787.9
7165.4	30°	7589.3	7519.9	6315.7	4101.9	3227.2	3142.4	3223.4	3371.7	3537.4	3635.7
7537.3	32.5°	7911.0	7652.9	5945.8	3506.6	2980.6	2955.6	3088.5	3184.8	3258.1	3287.0
8030.5	35°	8311.8	7839.7	5471.8	3088.5	2759.0	2818.8	2945.9	2897.8	2868.9	2853.4
8693.3	37.5°	8832.0	8092.1	4916.9	2816.8	2579.9	2720.5	2772.5	2622.2	2508.6	2452.7
9496.7	40°	9458.2	8462.1	4383.2	2606.8	2466.2	2635.7	2545.2	2364.1	2219.6	2140.6
10400.3	42.5°	10153.7	8849.3	3934.3	2448.8	2402.6	2566.4	2377.5	2161.8	1928.6	1903.6
11477.4	45°	10883.9	9248.2	3628.0	2327.5	2371.8	2506.6	2281.2	1932.5	1766.8	1868.9
12558.2	47.5°	11614.2	9614.2	3443.0	2236.9	2356.4	2439.2	2196.4	1805.3	1687.8	1836.1
13716.2	50°	12427.2	9941.8	3360.2	2171.4	2339.0	2412.2	2069.3	1772.6	1604.9	1703.2
14914.6	52.5°	13234.5	10196.1	3298.5	2105.9	2314.0	2391.0	2007.6	1734.0	1504.8	1510.5
16120.7	55°	14039.9	10361.8	3231.1	2019.2	2258.1	2344.8	2001.8	1691.6	1429.6	1402.6
17396.2	57.5°	14899.2	10456.2	3148.2	1922.8	2161.8	2227.3	1996.1	1658.9	1406.5	1362.2
18700.6	60°	15773.9	10594.9	3040.3	1805.3	2032.7	2086.6	1982.6	1647.3	1393.0	1317.9
19929.8	62.5°	16558.1	10643.1	2911.2	1693.6	1867.0	1947.9	1953.7	1637.7	1356.4	1227.3
20950.9	65°	17072.5	10435.0	2685.8	1566.4	1687.8	1805.3	1897.8	1604.9	1290.9	1161.8
21455.7	67.5°	17051.3	9841.6	2333.2	1402.6	1514.4	1647.3	1816.9	1549.1	1211.9	1080.9
21074.3	70°	16257.5	8670.2	1886.2	1211.9	1323.6	1477.8	1712.8	1466.2	1117.5	992.3
18739.1	72.5°	13943.5	6785.8	1369.9	988.4	1102.1	1302.4	1578.0	1366.0	1021.2	913.3
13849.1	75°	9961.0	4294.6	928.7	759.1	857.4	1104.0	1410.3	1248.5	932.5	917.1
6936.1	77.5°	5088.4	2051.9	614.6	554.9	597.3	870.9	1184.9	1115.6	946.0	757.2
1972.9	80°	1655.0	757.2	387.3	377.6	396.9	579.9	917.1	915.2	716.7	514.4
477.8	82.5°	527.9	325.6	252.4	242.8	233.1	364.1	639.7	724.4	483.6	325.6
171.5	85°	210.0	194.6	148.4	136.8	98.3	171.5	335.2	481.7	360.3	235.1
44.3	87.5°	77.1	77.1	40.5	28.9	21.2	57.8	90.6	144.5	206.2	121.4
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>
5248.3
5654.9
5849.5
5810.9
5518.1
5042.2
4562.4
4204.1
3994.1
3911.2
3863.0
3814.9
3658.8
3302.4
2868.9
2466.2
2146.3
1928.6
1922.8
1905.5
1776.4
1551.0
1421.9
1368.0
1323.6
1227.3
1161.8
1086.7
<i>1003.8</i>
907.5
865.1
674.3
454.7
323.7
240.8
119.5
0.0

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