

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: P955787

Luminaire Tested: **GALN-SB8C-850-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955787  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-850-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

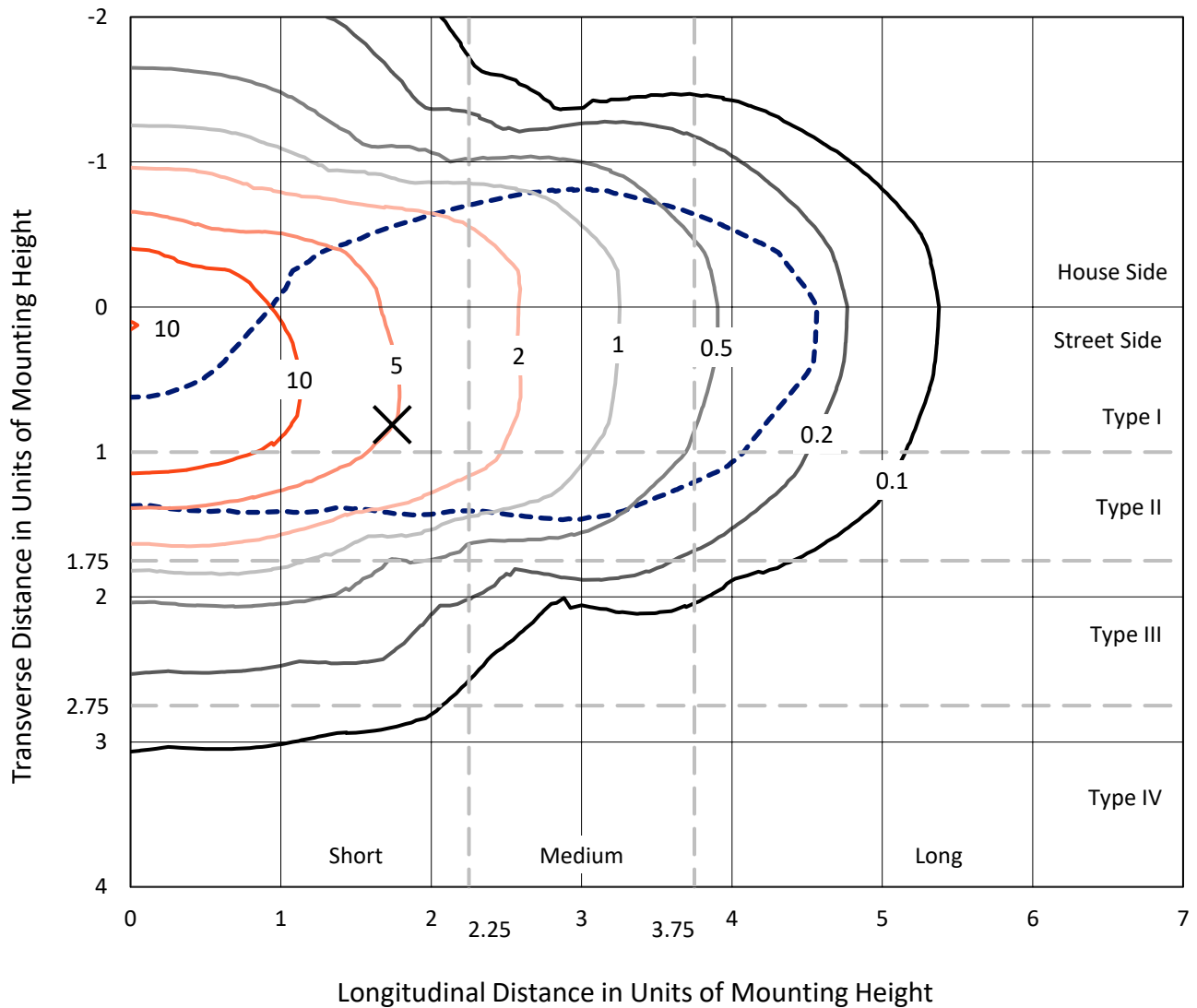
Lumens per Lamp: N/A  
Luminaire Lumens: 58701 lumens  
Efficiency: N/A  
Efficacy: 146.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

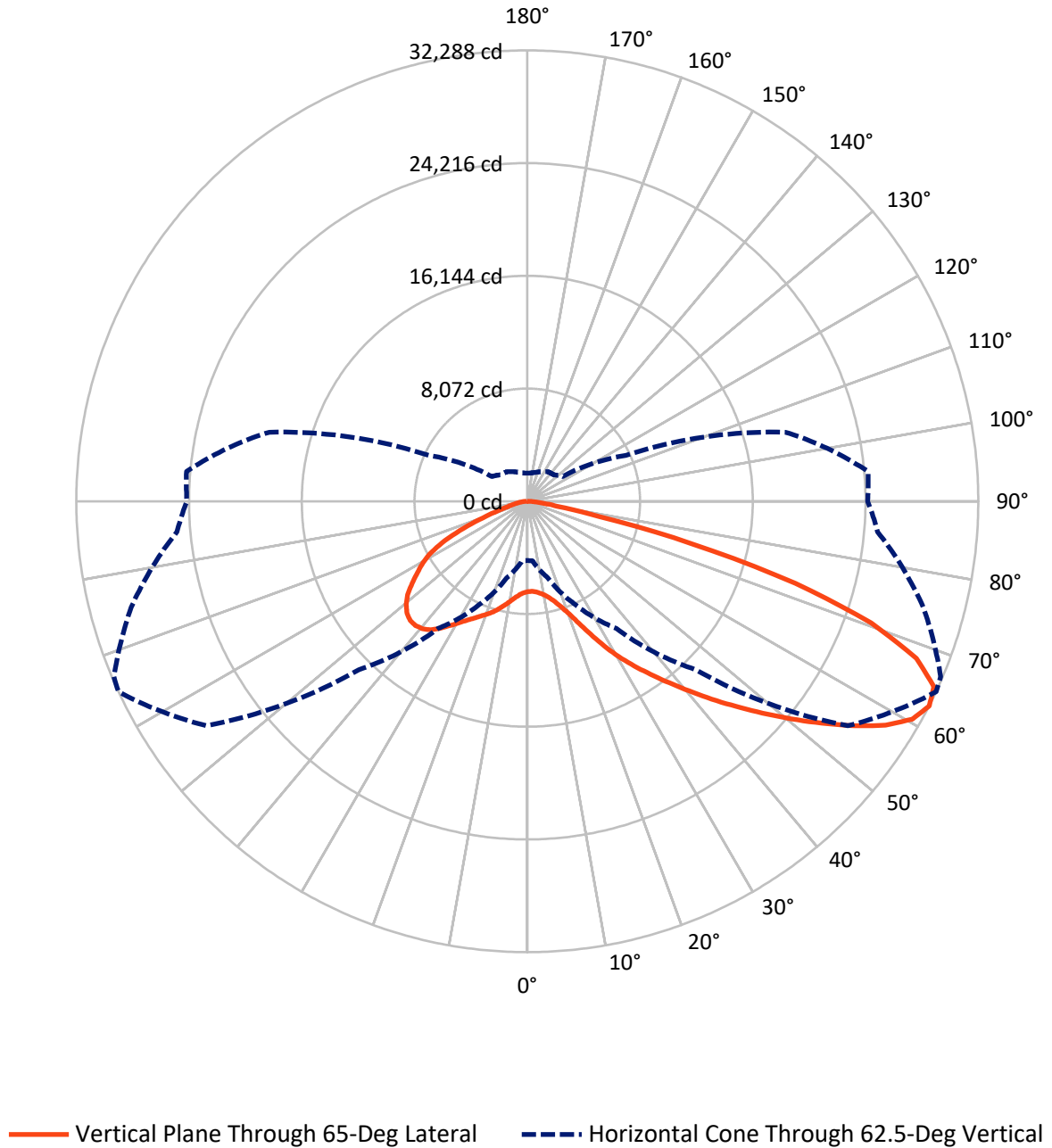
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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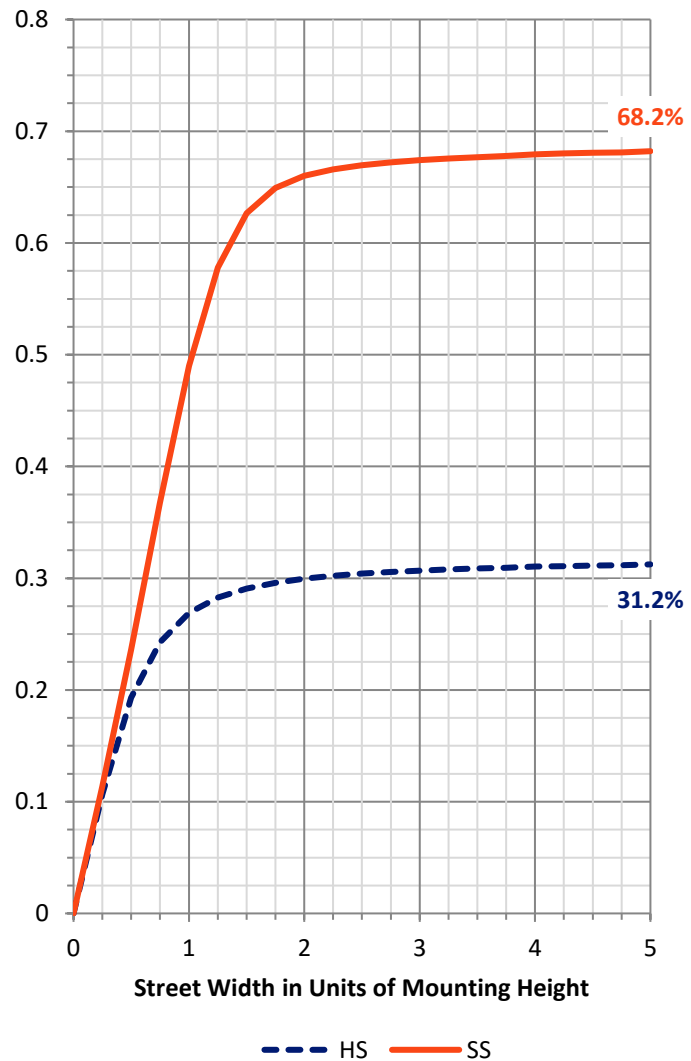
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18523.5	0.0	18523.5
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	40177.5	0.0	40177.5
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	58701.0	0.0	58701.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	644.9	1.1
10°-20°	2187.0	3.7
20°-30°	4434.3	7.6
30°-40°	7673.4	13.1
40°-50°	11612.3	19.8
50°-60°	13614.7	23.2
60°-70°	11414.3	19.4
70°-80°	6301.6	10.7
80°-90°	818.6	1.4
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°	58701.0	100.0
0°-180°	58701.0	100.0

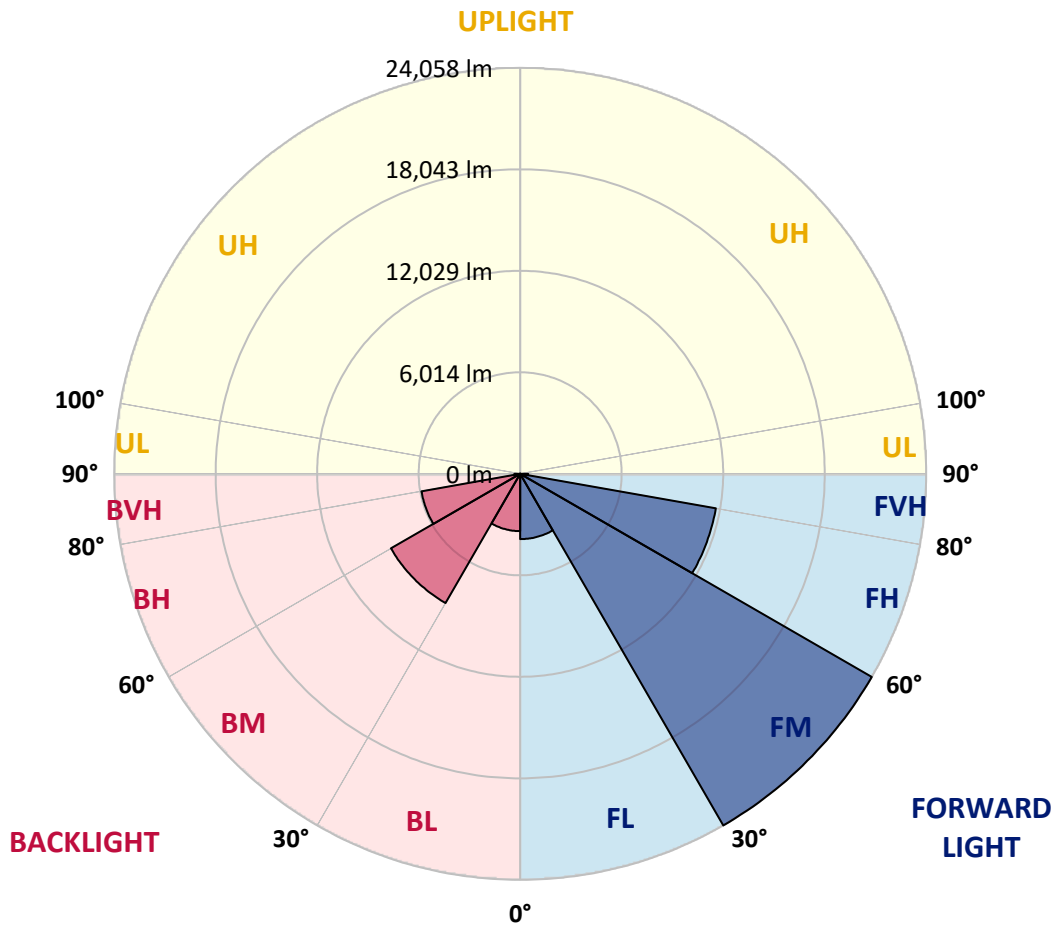


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3869.2	6.6			
FM (30°-60°)	24057.6	41.0			
FH (60°-80°)	11773.7	20.1			G4/12000
FVH (80°-90°)	477.1	0.8			G3/500
BL (0°-30°)	3397.0	5.8	B4/5000		
BM (30°-60°)	8842.8	15.1	B5		
BH (60°-80°)	5942.2	10.1	B5		G5
BVH (80°-90°)	341.5	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	6468.6	6468.6	6468.6	6468.6	6468.6	6468.6	6468.6	6468.6	6468.6	6468.6
2.5°	6426.0	6407.7	6422.9	6422.9	6429.0	6426.0	6447.3	6453.4	6462.5	6480.8
5°	6362.0	6359.0	6386.4	6410.7	6435.1	6456.4	6483.8	6523.4	6529.5	6550.8
7.5°	6340.7	6322.4	6365.0	6395.5	6453.4	6505.1	6578.2	6645.2	6672.6	6681.8
10°	6505.1	6474.7	6514.3	6532.6	6581.3	6633.1	6718.3	6824.9	6855.4	6891.9
12.5°	6785.3	6751.8	6809.7	6837.1	6882.8	6928.5	6986.3	7089.9	7105.1	7172.1
15°	7169.1	7129.5	7166.0	7199.5	7275.6	7318.3	7376.1	7476.6	7476.6	7528.4
17.5°	7689.8	7638.1	7665.5	7677.7	7726.4	7790.3	7887.8	7976.1	8021.8	8003.5
20°	8466.4	8402.5	8402.5	8341.6	8323.3	8375.1	8503.0	8624.8	8673.5	8579.1
22.5°	9632.8	9541.5	9489.7	9282.6	9200.4	9206.5	9334.4	9483.6	9523.2	9355.7
25°	11116.0	10972.9	10902.8	10598.3	10412.5	10251.1	10351.6	10543.4	10598.3	10391.2
27.5°	12599.1	12608.3	12541.3	12175.8	11868.2	11572.8	11521.0	11722.0	11779.9	11545.4
30°	14679.2	14463.0	14335.1	13896.5	13458.0	13043.8	12830.6	12912.8	12928.1	12647.9
32.5°	16473.0	16418.2	16144.1	15760.3	15196.9	14548.2	14191.9	14061.0	14036.6	13637.7
35°	18516.5	18486.1	18196.7	17739.9	17130.8	16229.4	15586.8	15212.2	15181.7	14621.3
37.5°	20593.5	20593.5	20310.3	19810.8	19180.4	18053.6	17076.0	16482.1	16384.7	15653.8
40°	22250.3	22149.8	22201.5	21991.4	21269.6	20072.7	18729.7	17867.8	17736.9	16859.8
42.5°	23191.3	23157.8	23468.5	23703.0	23407.5	22451.3	20550.9	19369.2	19186.5	18187.6
45°	23401.5	23364.9	23919.2	24778.0	25192.2	24799.3	22530.4	20949.8	20727.5	19576.3
47.5°	22917.2	22844.1	23657.3	25012.5	26340.3	27031.7	24674.5	22664.4	22341.6	20928.5
50°	21461.5	21391.4	22621.8	24421.7	26727.1	28548.3	27001.2	24482.6	23989.2	22378.2
52.5°	18297.2	18330.7	20258.5	22731.4	26218.5	29492.4	29005.1	26398.2	25804.3	23861.3
55°	14252.8	14325.9	16695.3	19418.0	24184.1	29349.3	30372.6	28371.7	27780.9	25256.2
57.5°	10205.4	10528.2	12748.4	15443.6	20276.8	27080.4	30671.0	30247.7	29675.1	26778.9
60°	6614.8	6672.6	8956.8	11673.3	15440.6	23048.2	30065.0	31669.9	31222.2	28332.1
62.5°	4239.3	4278.9	5670.7	8164.9	11112.9	17051.6	28024.5	32288.2	32151.1	29358.4
65°	3115.5	3085.1	3809.9	5396.6	7485.8	10516.0	24062.3	31989.7	32260.8	30001.0
67.5°	2600.8	2558.2	2914.5	3736.8	5515.4	5972.2	17803.9	30049.7	31042.6	29927.9
70°	2369.4	2332.8	2549.1	2774.4	4303.3	3998.7	8975.0	26124.1	27652.9	29096.5
72.5°	2007.0	1943.0	2238.4	2463.8	3347.0	3066.8	3709.4	20066.7	21930.5	26431.7
75°	1556.2	1513.6	1766.4	2168.4	2515.6	2393.7	2345.0	12185.0	14219.3	20441.2
77.5°	1233.4	1175.6	1407.0	1690.2	2262.8	1806.0	1708.5	5247.4	7263.5	13049.9
80°	928.9	877.1	1069.0	1337.0	1739.0	1361.3	1105.5	2141.0	2737.9	6611.7
82.5°	660.9	615.2	746.1	980.6	1169.5	1221.2	679.1	1199.9	1349.1	2549.1
85°	423.3	395.9	499.5	615.2	743.1	785.7	414.2	627.4	688.3	1050.7
87.5°	231.5	188.8	268.0	286.3	344.1	313.7	198.0	228.4	246.7	380.7
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°
6468.6	0°	6468.6	6468.6	6468.6	6468.6	6468.6	6468.6	6468.6	6468.6	6468.6	6468.6
6480.8	2.5°	6493.0	6502.1	6532.6	6541.7	6563.0	6590.4	6608.7	6627.0	6627.0	6645.2
6578.2	5°	6581.3	6602.6	6666.6	6700.1	6754.9	6809.7	6843.2	6882.8	6907.1	6919.3
6733.6	7.5°	6751.8	6785.3	6876.7	6934.6	7029.0	7105.1	7156.9	7211.7	7223.9	7257.4
6949.8	10°	6983.3	7022.9	7126.4	7236.1	7348.7	7443.1	7491.9	7531.5	7546.7	7552.8
7226.9	12.5°	7248.2	7306.1	7440.1	7574.1	7692.9	7775.1	7787.3	7778.2	7735.5	7699.0
7568.0	15°	7574.1	7625.9	7775.1	7921.3	8037.0	8052.2	7976.1	7927.4	7875.6	7866.5
7948.7	17.5°	7963.9	7991.3	8128.4	8271.5	8280.7	8228.9	8116.2	8070.5	8021.8	7988.3
8445.1	20°	8417.7	8408.6	8506.0	8566.9	8503.0	8344.6	8174.1	8097.9	8049.2	8009.6
9054.2	22.5°	8959.8	8889.8	8877.6	8862.3	8691.8	8359.8	8128.4	8030.9	7954.8	7900.0
9903.9	25°	9748.6	9480.6	9294.8	9191.3	8807.5	8277.6	7982.2	7766.0	7622.8	7528.4
10942.4	27.5°	10735.3	10284.6	9815.6	9562.8	8807.5	8110.1	7628.9	7278.7	7044.2	6946.7
11947.4	30°	11676.4	11204.3	10513.0	10010.5	8786.2	7836.0	7059.4	6572.1	6298.0	6200.6
12806.2	32.5°	12480.4	11965.7	11253.0	10500.8	8734.4	7391.4	6352.9	5813.8	5548.9	5433.1
13655.9	35°	13226.5	12678.3	11996.1	11039.9	8597.4	6739.6	5576.3	5165.1	4869.7	4683.9
14520.8	37.5°	13990.9	13339.2	12699.6	11527.1	8350.7	5978.3	4979.4	4629.1	4281.9	4032.2
15440.6	40°	14822.3	14042.7	13451.9	11816.5	7945.7	5253.4	4516.4	4196.7	3828.2	3563.2
16500.4	42.5°	15793.8	14886.3	14289.4	11965.7	7391.4	4738.8	4214.9	3901.3	3554.1	3337.8
17636.4	45°	16808.0	15815.2	15053.8	11962.6	6773.1	4498.2	4117.5	3806.8	3423.1	3197.8
18802.8	47.5°	17870.9	16786.7	15714.7	11767.7	6237.1	4531.7	4062.7	3602.8	3179.5	2960.2
19981.4	50°	18936.8	17849.5	16354.2	11402.3	6008.7	4458.6	3858.6	3316.5	2817.1	2619.1
21086.9	52.5°	19993.6	18979.4	16905.4	10881.5	5777.3	4187.5	3596.7	2945.0	2667.8	2530.8
22228.9	55°	21056.4	20097.1	17505.4	10123.2	5198.6	3870.8	3158.2	2804.9	2549.1	2424.2
23346.6	57.5°	22122.4	21388.4	18074.9	9364.8	4470.8	3481.0	2917.6	2634.3	2430.3	2323.7
24281.6	60°	23230.9	22865.5	18662.7	8667.4	3752.0	2981.5	2740.9	2497.3	2290.2	2171.4
25180.0	62.5°	24373.0	24491.7	19122.6	7769.0	3091.2	2677.0	2582.6	2332.8	2131.8	2019.2
25923.1	65°	25524.2	26060.2	19424.1	6523.4	2506.4	2387.7	2412.0	2153.2	1949.1	1851.7
26468.3	67.5°	26392.1	27190.0	19338.8	4936.7	2055.7	2113.6	2198.8	1964.3	1772.5	1696.3
26379.9	70°	26489.6	27056.0	18498.2	3380.5	1720.7	1845.6	1961.3	1778.6	1580.6	1525.8
25137.4	72.5°	25192.2	25228.7	16156.3	2208.0	1455.7	1620.2	1711.6	1589.7	1397.9	1343.1
21991.4	75°	21790.4	20864.6	11862.1	1455.7	1218.2	1391.8	1477.1	1391.8	1206.0	1218.2
16454.7	77.5°	16509.5	14776.7	7202.6	1035.5	1017.2	1169.5	1285.2	1224.3	1065.9	1196.9
8274.6	80°	8506.0	7994.4	3213.0	773.6	804.0	935.0	1056.8	977.6	843.6	804.0
1848.6	82.5°	1949.1	2265.8	1266.9	554.3	581.7	673.1	807.1	734.0	606.1	511.6
770.5	85°	682.2	746.1	560.4	347.2	341.1	420.3	548.2	490.3	411.1	328.9
325.9	87.5°	216.2	283.2	210.1	140.1	146.2	188.8	252.8	231.5	191.9	124.9
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>
6468.6
6645.2
6925.4
7245.2
7537.6
7699.0
7866.5
7991.3
8012.7
7918.2
7565.0
6995.5
6258.5
5491.0
4744.9
4099.2
3615.0
3380.5
3234.3
2990.7
2631.3
2530.8
2412.0
2305.4
2162.3
2016.1
1848.6
1699.4
1528.8
1340.0
1175.6
1053.7
734.0
505.5
347.2
131.0
0.0

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