

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: P942047

Luminaire Tested: **GALN-SB5D-840-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-840-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49202 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

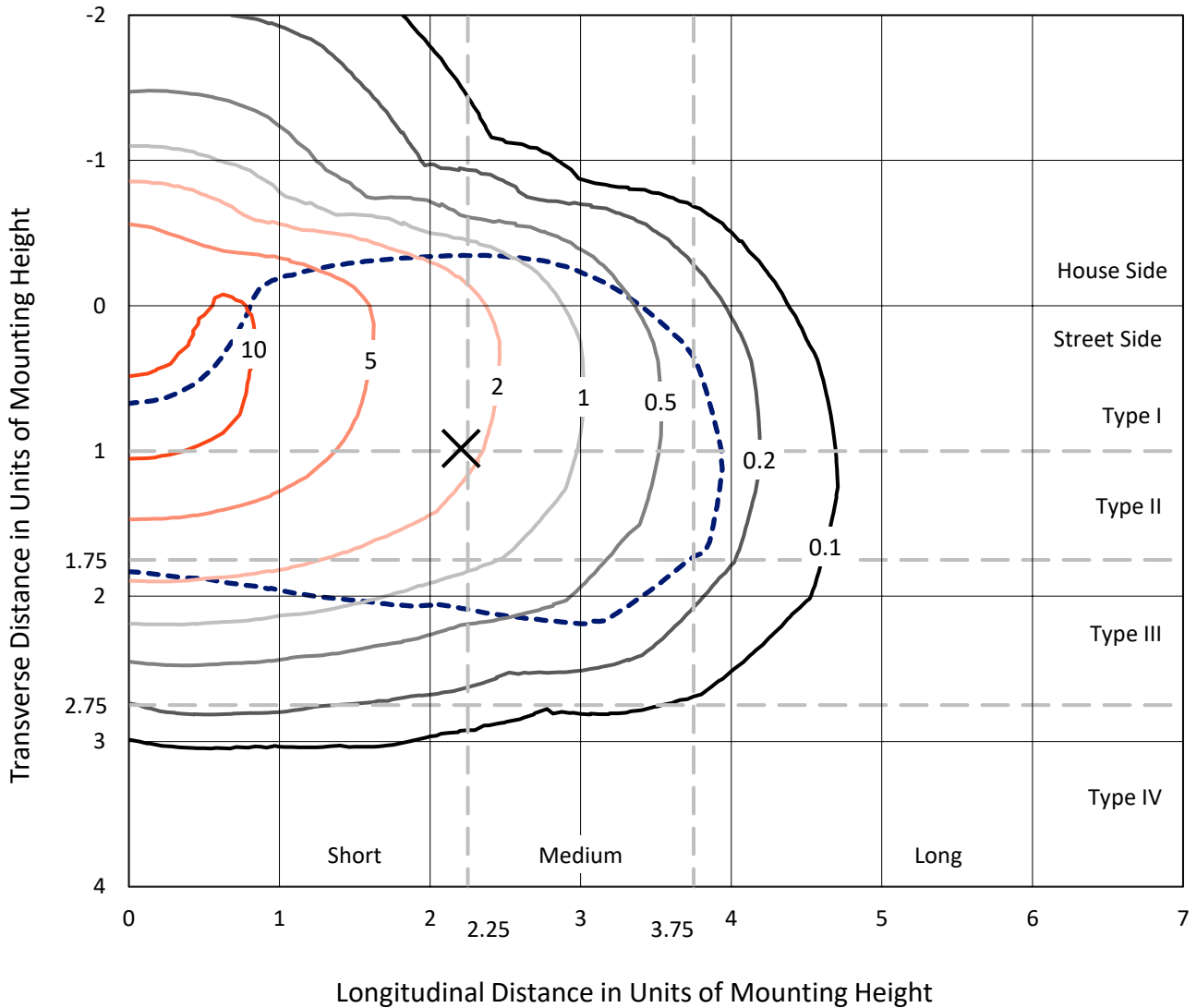
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

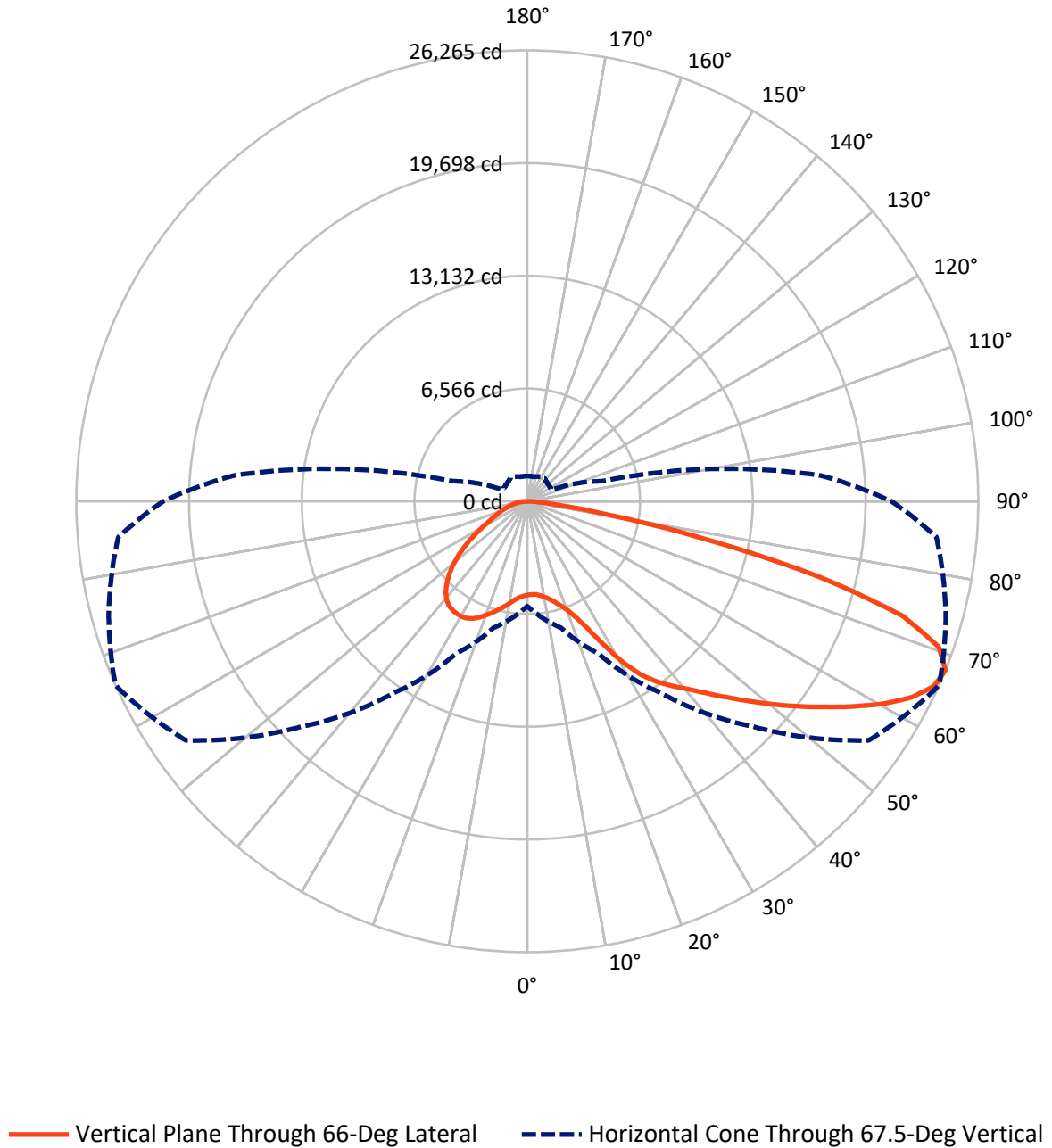
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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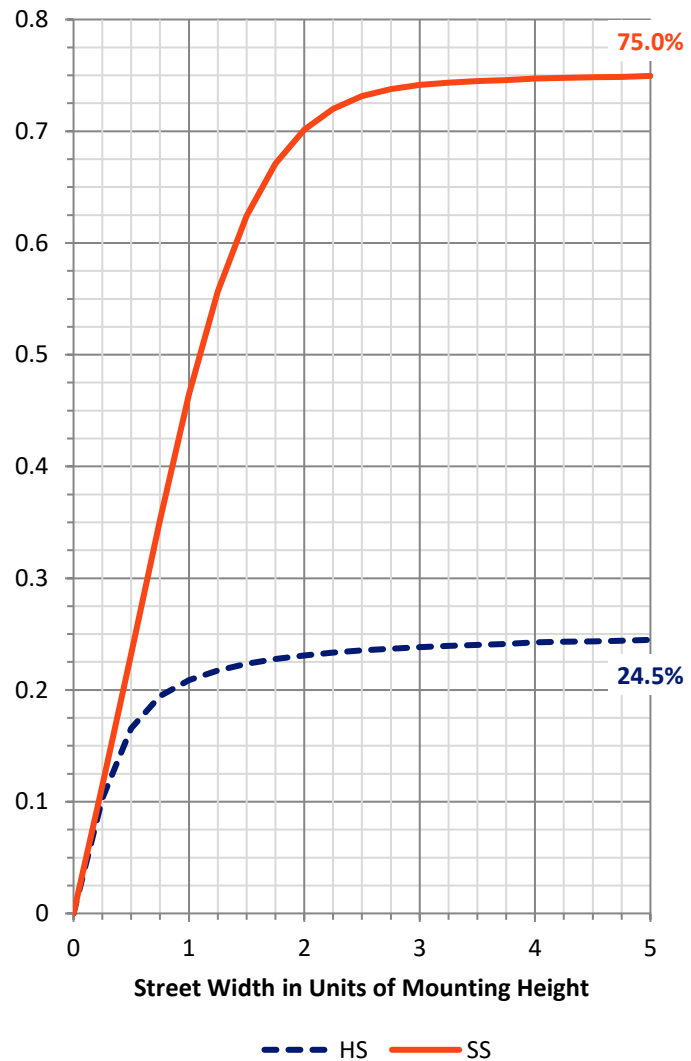
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12233.9	0.0	12233.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	36968.1	0.0	36968.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	49202.0	0.0	49202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.1	1.1
10°-20°	1787.6	3.6
20°-30°	3445.5	7.0
30°-40°	6041.2	12.3
40°-50°	8981.2	18.3
50°-60°	11384.6	23.1
60°-70°	11139.5	22.6
70°-80°	5313.6	10.8
80°-90°	567.9	1.2
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°	49202.0	100.0
0°-180°	49202.0	100.0

Coefficient of Utilization



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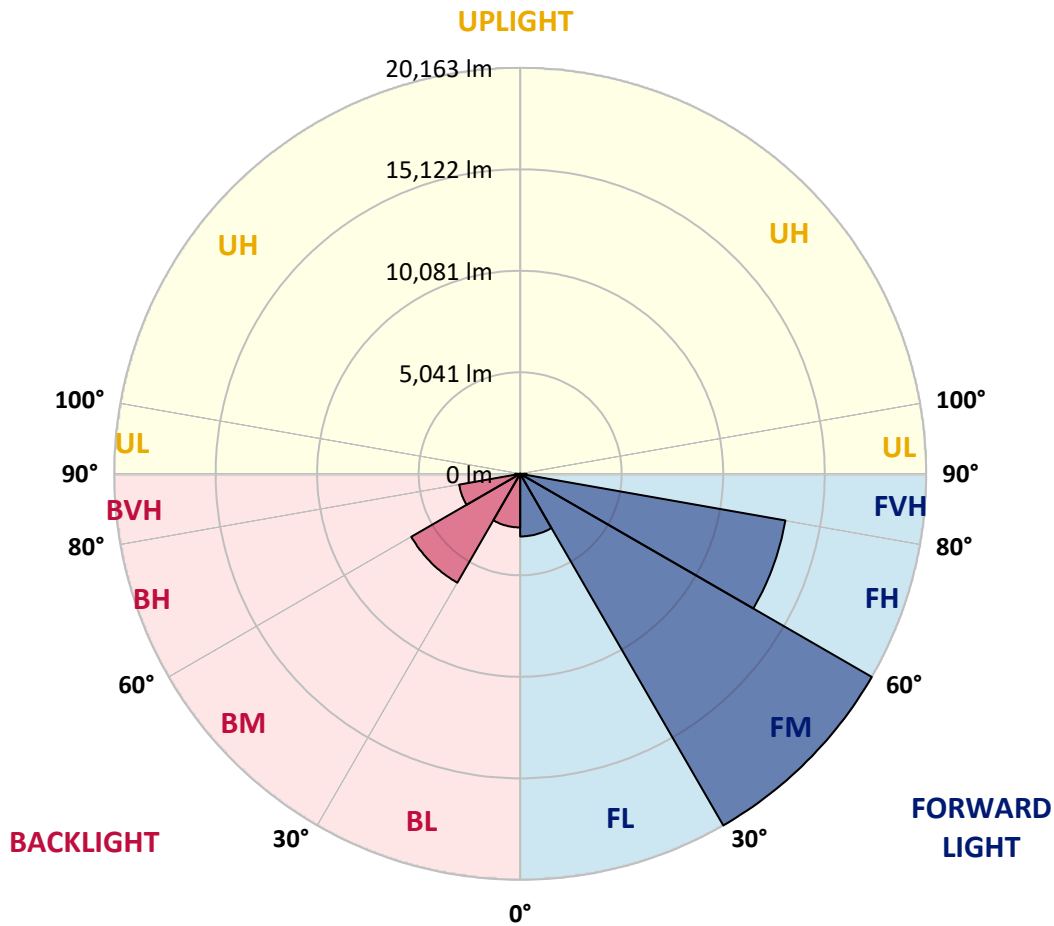
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3109.1	6.3			
FM (30°-60°)	20162.6	41.0			
FH (60°-80°)	13374.5	27.2			G5
FVH (80°-90°)	322.0	0.7			G3/500
BL (0°-30°)	2665.0	5.4	B4/5000		
BM (30°-60°)	6244.3	12.7	B4/8500		
BH (60°-80°)	3078.7	6.3	B4/5000		G4/5000
BVH (80°-90°)	245.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5457.2	5457.2	5457.2	5457.2	5457.2	5457.2	5457.2	5457.2	5457.2	5457.2
2.5°	5400.3	5431.3	5423.5	5410.6	5408.0	5413.2	5421.0	5428.7	5426.1	5439.1
5°	5384.8	5415.8	5413.2	5413.2	5423.5	5444.2	5457.2	5470.1	5457.2	5472.7
7.5°	5395.1	5418.4	5428.7	5439.1	5464.9	5503.7	5534.7	5563.1	5547.6	5565.7
10°	5526.9	5545.0	5555.4	5555.4	5573.5	5617.4	5648.4	5700.2	5687.2	5715.7
12.5°	5767.4	5785.5	5785.5	5775.1	5788.0	5816.5	5826.8	5883.7	5860.4	5907.0
15°	6062.1	6098.3	6069.8	6051.7	6056.9	6085.3	6082.7	6126.7	6103.4	6142.2
17.5°	6387.8	6434.3	6387.8	6385.2	6374.9	6405.9	6408.5	6447.2	6405.9	6434.3
20°	6773.0	6837.6	6798.8	6811.7	6788.5	6801.4	6814.3	6871.2	6806.6	6827.3
22.5°	7315.8	7393.4	7352.0	7401.1	7385.6	7375.3	7372.7	7473.5	7372.7	7380.5
25°	8106.9	8199.9	8127.6	8194.8	8194.8	8228.4	8267.2	8396.4	8228.4	8179.3
27.5°	9275.3	9368.4	9226.2	9267.6	9254.7	9337.4	9296.0	9616.6	9435.6	9355.5
30°	10681.6	10847.1	10578.2	10567.9	10555.0	10686.8	10746.3	10958.3	10774.7	10694.6
32.5°	12201.7	12374.9	12054.3	11961.3	11912.2	11992.3	11943.2	12113.8	11987.1	11863.0
35°	13809.6	13980.2	13675.2	13494.2	13297.8	13129.7	12954.0	12997.9	12879.0	12690.3
37.5°	15329.7	15642.5	15319.3	15125.4	14763.5	14435.2	13944.0	13739.8	13628.7	13455.5
40°	16878.1	17056.5	16810.9	16645.5	16252.5	15738.1	14952.2	14520.5	14370.6	14202.6
42.5°	18018.2	18188.8	18056.9	17943.2	17635.6	17038.4	16022.5	15482.2	15265.0	15076.3
45°	18923.0	19049.6	18966.9	19008.3	18876.4	18297.4	17131.5	16513.6	16288.7	16058.7
47.5°	19287.5	19421.9	19553.7	19799.3	20024.2	19597.7	18323.2	17630.4	17392.6	17157.3
50°	19246.1	19383.1	19765.7	20287.9	20985.9	20843.7	19579.6	18819.5	18599.8	18331.0
52.5°	18915.2	19070.3	19561.5	20430.1	21541.7	21776.9	20859.2	20047.5	19840.7	19520.1
55°	18046.6	18139.7	18876.4	20106.9	21673.5	22428.4	22113.0	21355.5	21148.7	20701.5
57.5°	16436.1	16570.5	17643.3	19235.7	21342.6	22870.4	23214.2	22730.8	22531.8	21888.1
60°	14334.4	14549.0	15776.9	17772.6	20499.9	22867.8	24214.7	24082.8	23917.4	23056.5
62.5°	11956.1	12204.3	13385.7	15704.5	19026.4	22219.0	24840.3	25215.1	25129.8	24134.5
65°	9182.3	9352.9	10529.1	13028.9	16733.4	20825.6	24912.6	25988.0	26003.5	24954.0
67.5°	6113.8	6604.9	7626.1	9776.9	13662.3	18548.1	24276.7	26114.7	26264.6	25235.8
70°	2983.2	3629.5	4629.9	6354.2	9776.9	15055.6	22614.5	25075.5	25409.0	24413.7
72.5°	1238.3	1447.7	1993.1	3135.7	5612.3	10159.5	19274.5	22257.7	22875.6	21632.1
75°	835.0	904.8	1140.0	1607.9	2556.7	5009.9	13900.1	16596.4	17591.6	16337.8
77.5°	643.7	687.6	829.8	1124.5	1520.0	1894.9	7439.9	10001.8	10516.2	9735.5
80°	506.7	540.3	620.4	819.5	1078.0	1013.4	2536.0	4531.7	4829.0	4050.9
82.5°	439.5	452.4	444.6	555.8	716.1	592.0	832.4	1672.6	1845.8	1339.1
85°	318.0	354.2	369.7	343.8	380.0	299.9	341.2	592.0	651.4	581.6
87.5°	129.3	191.3	235.2	222.3	139.6	85.3	106.0	173.2	199.1	217.1
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°
5457.2	0°	5457.2	5457.2	5457.2	5457.2	5457.2	5457.2	5457.2	5457.2	5457.2	5457.2
5459.7	2.5°	5462.3	5480.4	5493.3	5508.9	5519.2	5534.7	5565.7	5583.8	5586.4	5599.3
5501.1	5°	5511.4	5537.3	5565.7	5607.1	5653.6	5692.4	5751.9	5793.2	5808.7	5821.7
5601.9	7.5°	5617.4	5653.6	5705.3	5777.7	5844.9	5896.6	5969.0	6018.1	6067.2	6085.3
5762.2	10°	5775.1	5826.8	5901.8	6000.0	6072.4	6139.6	6214.6	6255.9	6305.1	6325.7
5953.5	12.5°	5971.6	6025.9	6124.1	6261.1	6328.3	6374.9	6400.7	6390.4	6400.7	6418.8
6183.6	15°	6196.5	6255.9	6367.1	6514.5	6561.0	6519.6	6462.8	6411.1	6403.3	6408.5
6462.8	17.5°	6462.8	6506.7	6636.0	6760.0	6726.4	6555.8	6431.7	6349.0	6307.7	6294.7
6819.5	20°	6835.0	6835.0	6941.0	7018.6	6793.7	6504.1	6310.2	6175.8	6090.5	6054.3
7305.5	22.5°	7287.4	7246.0	7313.3	7259.0	6780.7	6359.4	6090.5	5857.8	5728.6	5676.9
7985.4	25°	7861.3	7812.2	7794.1	7458.0	6687.7	6129.3	5692.4	5410.6	5296.9	5268.4
8965.1	27.5°	8727.3	8603.2	8368.0	7566.6	6517.0	5767.4	5227.1	4966.0	4901.4	4903.9
10224.1	30°	9880.3	9632.1	9055.6	7584.7	6237.9	5255.5	4751.4	4565.3	4534.3	4547.2
11281.4	32.5°	10947.9	10712.7	9758.8	7502.0	5808.7	4754.0	4324.9	4200.8	4154.3	4169.8
12087.9	35°	11785.5	11720.9	10410.2	7385.6	5281.4	4283.5	3942.3	3836.3	3745.8	3725.1
12848.0	37.5°	12576.5	12550.7	10898.8	7222.8	4759.2	3950.0	3634.7	3495.1	3363.2	3290.8
13688.1	40°	13445.1	13419.3	11219.3	6972.0	4296.4	3660.5	3358.0	3174.5	3011.6	2879.8
14639.4	42.5°	14422.3	14269.8	11371.9	6612.7	3903.5	3414.9	3133.1	2885.0	2670.4	2548.9
15714.8	45°	15489.9	15146.1	11369.3	6155.1	3572.6	3190.0	2892.7	2541.2	2342.1	2228.4
16818.7	47.5°	16622.2	15983.7	11229.7	5648.4	3252.1	2941.8	2520.5	2251.6	2119.8	2050.0
18018.2	50°	17790.7	16767.0	10991.9	5066.8	2923.8	2660.1	2287.8	2104.3	2003.5	1938.8
19207.3	52.5°	18889.3	17477.9	10704.9	4407.6	2590.3	2386.0	2184.4	2042.2	1936.2	1863.9
20360.3	55°	19910.5	18090.5	10299.0	3732.9	2318.8	2202.5	2135.3	2016.4	1894.9	1809.6
21531.3	57.5°	20817.8	18488.7	9598.5	3099.5	2125.0	2075.8	2083.6	1972.4	1832.8	1760.5
22684.3	60°	21572.7	18780.8	8561.9	2512.7	1967.3	1951.8	2003.5	1889.7	1726.8	1644.1
23658.9	62.5°	22025.1	18775.6	7290.0	2057.7	1832.8	1838.0	1897.5	1786.3	1620.9	1543.3
24168.1	65°	21986.3	18315.5	5894.0	1760.5	1703.6	1708.8	1786.3	1672.6	1533.0	1486.4
23912.2	67.5°	21208.2	17193.5	4521.3	1566.6	1561.4	1584.7	1675.1	1595.0	1478.7	1473.5
22387.0	70°	19101.3	14864.3	3257.2	1411.5	1414.1	1447.7	1566.6	1545.9	1450.2	1460.6
18822.1	72.5°	15316.7	11333.1	2187.0	1248.6	1251.2	1305.5	1463.2	1507.1	1421.8	1558.8
13354.6	75°	10200.8	7067.7	1406.3	1075.4	1078.0	1147.8	1372.7	1432.1	1344.3	1553.6
6948.8	77.5°	4901.4	3177.1	1018.5	904.8	904.8	969.4	1186.6	1282.2	1145.2	1207.2
2233.5	80°	1693.2	1194.3	801.4	729.0	713.5	757.4	1000.4	1111.6	987.5	910.0
729.0	82.5°	667.0	620.4	643.7	566.1	514.4	542.9	778.1	917.7	726.4	656.6
411.0	85°	382.6	403.3	455.0	374.8	297.3	333.5	571.3	659.2	548.0	483.4
134.4	87.5°	103.4	142.2	209.4	193.9	134.4	142.2	271.4	364.5	315.4	243.0
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>
5457.2
5596.7
5819.1
6087.9
6336.1
6424.0
6426.6
6312.8
6046.6
5669.1
5273.6
4911.7
4591.1
4190.5
3740.6
3293.4
2892.7
2556.7
2223.2
2034.5
1915.6
1832.8
1776.0
1713.9
1607.9
1520.0
1483.8
1481.3
1458.0
1579.5
1566.6
1106.4
853.1
654.0
493.8
250.8
0.0

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