

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: P943417

Luminaire Tested: **GALN-SB7D-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943417
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-SB7D-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69269 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

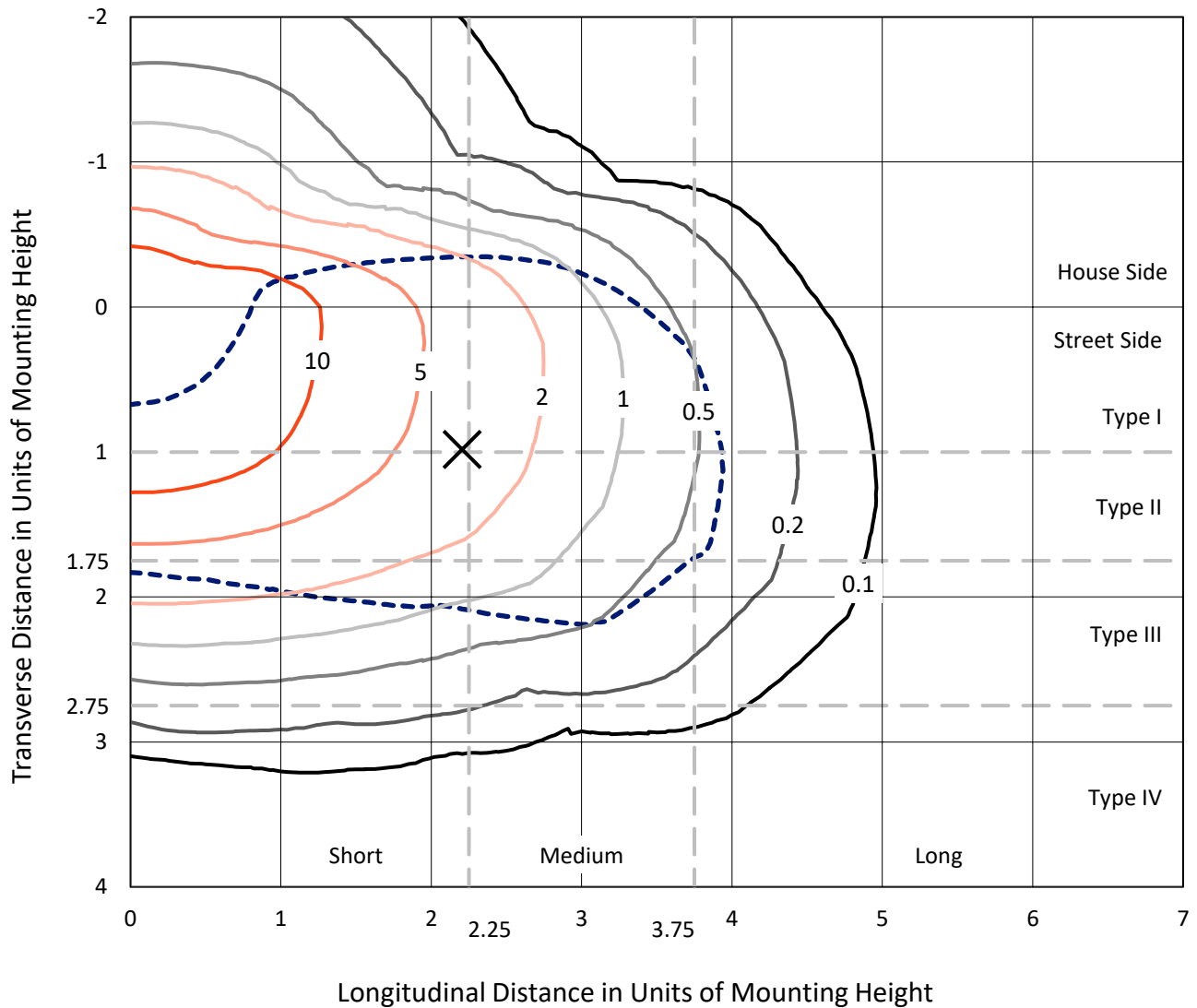
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

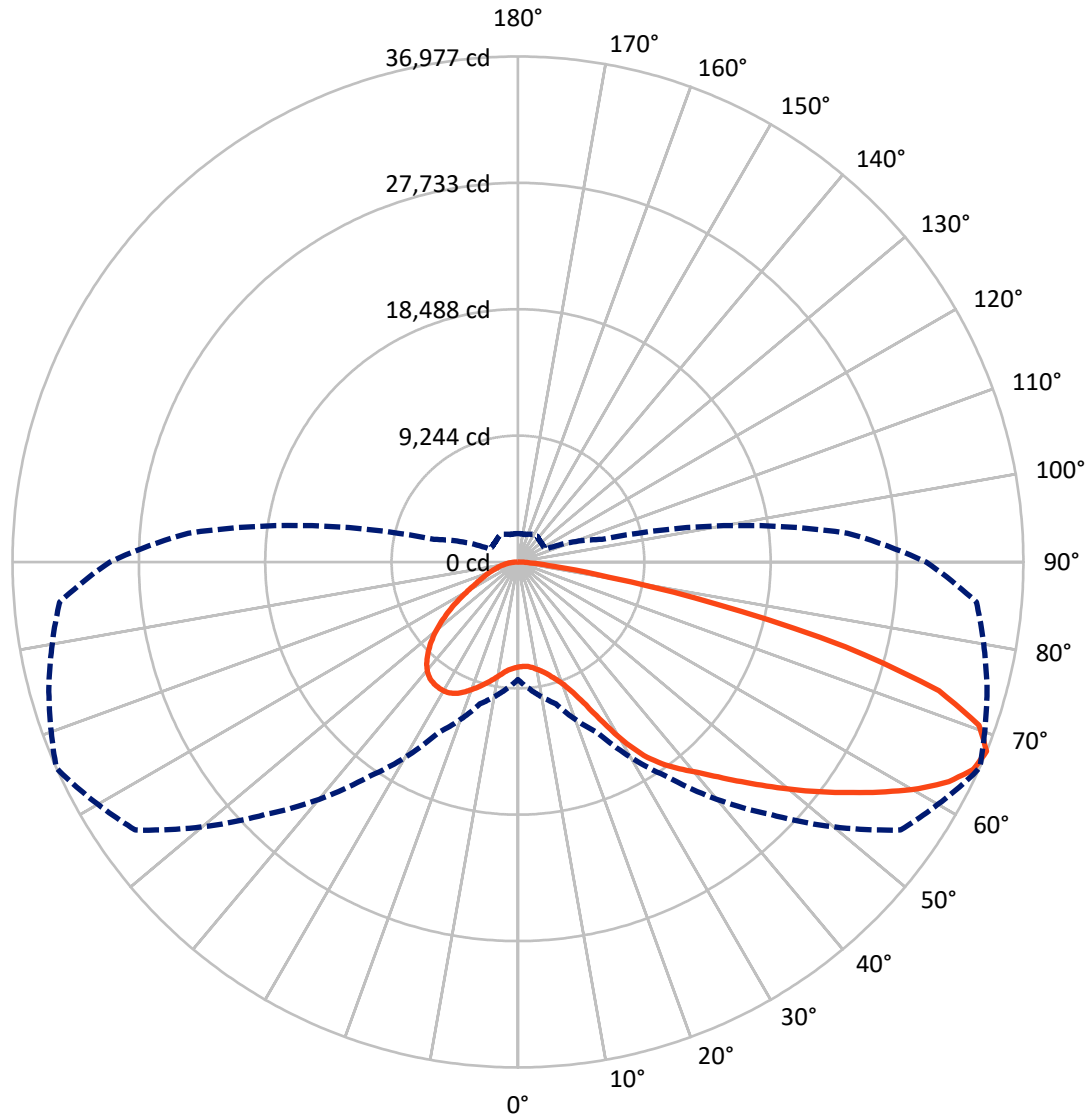
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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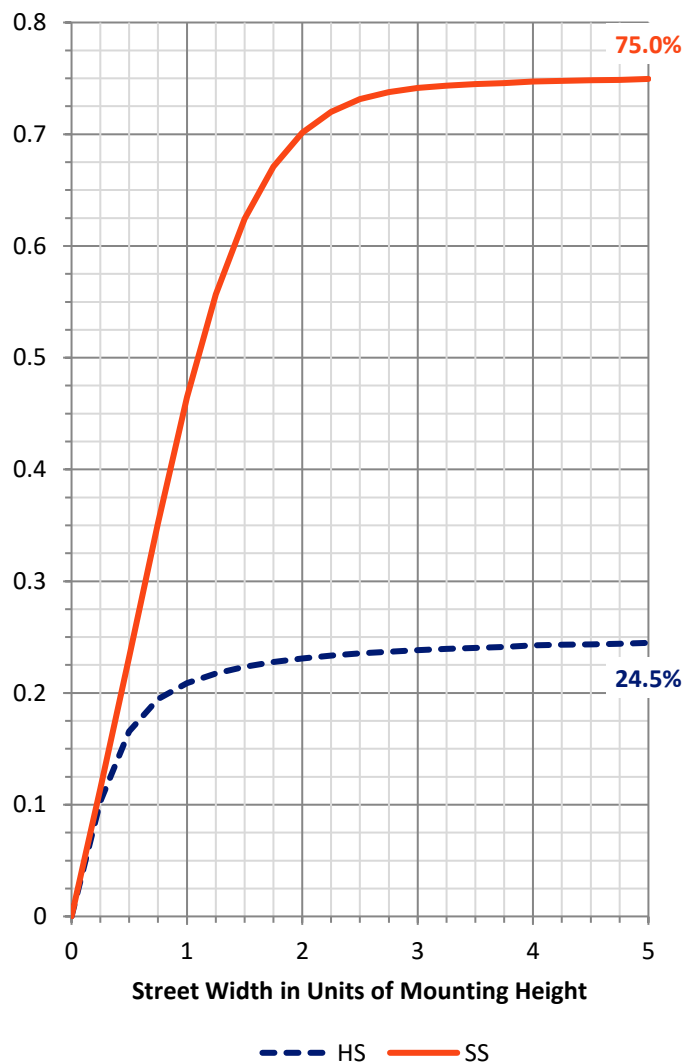
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17223.5	0.0	17223.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	52045.5	0.0	52045.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	69269.0	0.0	69269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.7	1.1
10°-20°	2516.6	3.6
20°-30°	4850.7	7.0
30°-40°	8505.0	12.3
40°-50°	12644.2	18.3
50°-60°	16027.7	23.1
60°-70°	15682.7	22.6
70°-80°	7480.8	10.8
80°-90°	799.5	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°	69269.0	100.0
0°-180°	69269.0	100.0

Coefficient of Utilization



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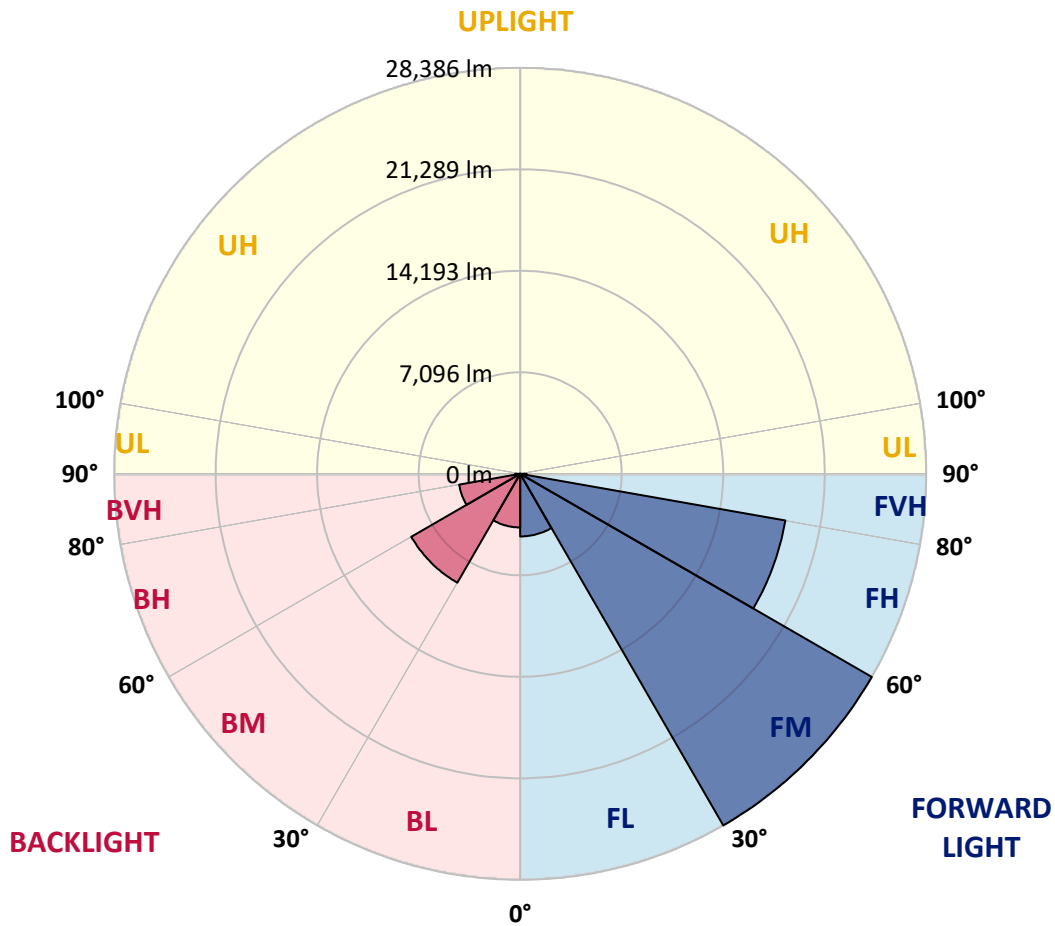
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4377.1	6.3			
FM (30°-60°)	28385.9	41.0			
FH (60°-80°)	18829.2	27.2			G5
FVH (80°-90°)	453.3	0.7			G3/500
BL (0°-30°)	3751.9	5.4	B4/5000		
BM (30°-60°)	8791.1	12.7	B5		
BH (60°-80°)	4334.3	6.3	B4/5000		G4/5000
BVH (80°-90°)	346.2	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	7682.8	7682.8	7682.8	7682.8	7682.8	7682.8	7682.8	7682.8	7682.8	7682.8
2.5°	7602.8	7646.5	7635.5	7617.3	7613.7	7621.0	7631.9	7642.8	7639.2	7657.4
5°	7580.9	7624.6	7621.0	7621.0	7635.5	7664.7	7682.8	7701.0	7682.8	7704.7
7.5°	7595.5	7628.3	7642.8	7657.4	7693.8	7748.4	7792.0	7832.1	7810.2	7835.7
10°	7781.1	7806.6	7821.1	7821.1	7846.6	7908.5	7952.2	8025.0	8006.8	8046.8
12.5°	8119.6	8145.1	8145.1	8130.5	8148.7	8188.7	8203.3	8283.4	8250.6	8316.1
15°	8534.5	8585.4	8545.4	8519.9	8527.2	8567.2	8563.6	8625.5	8592.7	8647.3
17.5°	8993.0	9058.6	8993.0	8989.4	8974.8	9018.5	9022.2	9076.8	9018.5	9058.6
20°	9535.3	9626.3	9571.7	9589.9	9557.2	9575.4	9593.6	9673.6	9582.6	9611.7
22.5°	10299.6	10408.8	10350.6	10419.7	10397.9	10383.3	10379.7	10521.6	10379.7	10390.6
25°	11413.3	11544.3	11442.4	11537.0	11537.0	11584.3	11638.9	11820.9	11584.3	11515.2
27.5°	13058.3	13189.3	12989.1	13047.4	13029.2	13145.6	13087.4	13538.7	13283.9	13171.1
30°	15038.1	15271.1	14892.6	14878.0	14859.8	15045.4	15129.1	15427.6	15169.2	15056.3
32.5°	17178.1	17422.0	16970.7	16839.7	16770.5	16883.3	16814.2	17054.4	16876.1	16701.4
35°	19441.9	19682.1	19252.6	18997.9	18721.3	18484.7	18237.2	18299.1	18131.7	17866.0
37.5°	21581.9	22022.2	21567.3	21294.3	20784.8	20322.6	19631.1	19343.6	19187.1	18943.3
40°	23761.9	24013.0	23667.2	23434.3	22881.1	22156.9	21050.5	20442.7	20231.6	19995.1
42.5°	25366.9	25607.1	25421.5	25261.3	24828.2	23987.5	22557.2	21796.6	21490.9	21225.2
45°	26640.7	26819.0	26702.5	26760.8	26575.2	25759.9	24118.5	23248.7	22932.1	22608.2
47.5°	27153.8	27343.1	27528.7	27874.4	28191.1	27590.6	25796.3	24820.9	24486.1	24154.9
50°	27095.6	27288.5	27827.1	28562.3	29544.9	29344.8	27565.1	26495.1	26185.7	25807.2
52.5°	26629.7	26848.1	27539.6	28762.5	30327.4	30658.6	29366.6	28223.8	27932.7	27481.4
55°	25406.9	25537.9	26575.2	28307.5	30513.0	31575.7	31131.7	30065.4	29774.2	29144.6
57.5°	23139.5	23328.8	24839.1	27081.0	30047.2	32198.1	32682.1	32001.6	31721.3	30815.1
60°	20180.7	20482.7	22211.5	25021.1	28860.7	32194.4	34090.6	33905.0	33672.1	32460.1
62.5°	16832.4	17181.8	18845.0	22109.6	26786.2	31280.9	34971.3	35499.1	35378.9	33977.8
65°	12927.3	13167.5	14823.4	18342.8	23558.1	29319.3	35073.2	36587.2	36609.1	35131.5
67.5°	8607.3	9298.8	10736.3	13764.3	19234.4	26112.9	34177.9	36765.6	36976.7	35528.2
70°	4199.9	5109.8	6518.2	8945.7	13764.3	21196.1	31837.8	35302.5	35772.0	34370.8
72.5°	1743.3	2038.1	2806.0	4414.6	7901.2	14303.0	27135.6	31335.5	32205.4	30454.8
75°	1175.5	1273.8	1605.0	2263.7	3599.4	7053.2	19569.2	23365.2	24766.4	23001.2
77.5°	906.2	968.1	1168.3	1583.2	2140.0	2667.7	10474.3	14081.0	14805.2	13706.1
80°	713.3	760.6	873.5	1153.7	1517.6	1426.7	3570.3	6379.9	6798.5	5703.0
82.5°	618.7	636.9	626.0	782.5	1008.1	833.4	1171.9	2354.7	2598.6	1885.2
85°	447.7	498.6	520.4	484.0	535.0	422.2	480.4	833.4	917.1	818.9
87.5°	182.0	269.3	331.2	313.0	196.5	120.1	149.2	243.8	280.2	305.7
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°
7682.8	0°	7682.8	7682.8	7682.8	7682.8	7682.8	7682.8	7682.8	7682.8	7682.8	7682.8
7686.5	2.5°	7690.1	7715.6	7733.8	7755.6	7770.2	7792.0	7835.7	7861.2	7864.8	7883.0
7744.7	5°	7759.3	7795.7	7835.7	7893.9	7959.4	8014.0	8097.7	8156.0	8177.8	8196.0
7886.7	7.5°	7908.5	7959.4	8032.2	8134.1	8228.8	8301.6	8403.5	8472.6	8541.8	8567.2
8112.3	10°	8130.5	8203.3	8308.8	8447.1	8549.0	8643.7	8749.2	8807.4	8876.6	8905.7
8381.6	12.5°	8407.1	8483.5	8621.8	8814.7	8909.3	8974.8	9011.2	8996.7	9011.2	9036.7
8705.5	15°	8723.7	8807.4	8963.9	9171.4	9236.9	9178.7	9098.6	9025.8	9014.9	9022.2
9098.6	17.5°	9098.6	9160.5	9342.4	9517.1	9469.8	9229.6	9054.9	8938.5	8880.2	8862.0
9600.8	20°	9622.7	9622.7	9771.9	9881.1	9564.4	9156.8	8883.9	8694.6	8574.5	8523.6
10285.0	22.5°	10259.6	10201.3	10296.0	10219.5	9546.2	8953.0	8574.5	8247.0	8065.0	7992.2
11242.2	25°	11067.5	10998.4	10972.9	10499.8	9415.2	8629.1	8014.0	7617.3	7457.2	7417.2
12621.6	27.5°	12286.7	12112.0	11780.9	10652.6	9175.0	8119.6	7358.9	6991.4	6900.4	6904.0
14394.0	30°	13909.9	13560.5	12748.9	10678.1	8782.0	7399.0	6689.3	6427.2	6383.6	6401.8
15882.5	32.5°	15413.0	15081.8	13738.9	10561.6	8177.8	6692.9	6088.8	5914.1	5848.6	5870.4
17018.0	35°	16592.2	16501.2	14656.0	10397.9	7435.4	6030.5	5550.1	5400.9	5273.5	5244.4
18088.0	37.5°	17705.9	17669.5	15343.9	10168.6	6700.2	5561.1	5117.0	4920.5	4734.9	4633.0
19270.8	40°	18928.7	18892.3	15795.1	9815.6	6048.7	5153.4	4727.6	4469.2	4239.9	4054.3
20610.1	42.5°	20304.4	20089.7	16009.9	9309.7	5495.5	4807.7	4411.0	4061.6	3759.5	3588.5
22124.1	45°	21807.5	21323.5	16006.2	8665.5	5029.7	4491.1	4072.5	3577.6	3297.3	3137.2
23678.2	47.5°	23401.6	22502.6	15809.7	7952.2	4578.4	4141.7	3548.4	3169.9	2984.3	2886.1
25366.9	50°	25046.6	23605.4	15474.9	7133.3	4116.2	3745.0	3220.9	2962.5	2820.6	2729.6
27041.0	52.5°	26593.4	24606.2	15070.9	6205.2	3646.7	3359.2	3075.3	2875.2	2725.9	2624.0
28664.2	55°	28030.9	25468.8	14499.5	5255.3	3264.6	3100.8	3006.2	2838.8	2667.7	2547.6
30312.9	57.5°	29308.4	26029.2	13513.2	4363.7	2991.6	2922.5	2933.4	2776.9	2580.4	2478.5
31936.0	60°	30371.1	26440.5	12053.8	3537.5	2769.6	2747.8	2820.6	2660.4	2431.1	2314.7
33308.1	62.5°	31008.0	26433.2	10263.2	2897.0	2580.4	2587.6	2671.3	2514.8	2281.9	2172.7
34025.1	65°	30953.4	25785.4	8297.9	2478.5	2398.4	2405.7	2514.8	2354.7	2158.2	2092.7
33664.8	67.5°	29857.9	24205.9	6365.4	2205.5	2198.2	2231.0	2358.4	2245.5	2081.8	2074.5
31517.5	70°	26891.8	20926.8	4585.7	1987.1	1990.8	2038.1	2205.5	2176.4	2041.7	2056.3
26498.7	72.5°	21563.7	15955.3	3079.0	1757.8	1761.5	1837.9	2059.9	2121.8	2001.7	2194.6
18801.3	75°	14361.2	9950.2	1979.9	1514.0	1517.6	1615.9	1932.5	2016.2	1892.5	2187.3
9782.8	77.5°	6900.4	4472.9	1433.9	1273.8	1273.8	1364.8	1670.5	1805.2	1612.3	1699.6
3144.5	80°	2383.8	1681.4	1128.2	1026.3	1004.5	1066.4	1408.5	1565.0	1390.3	1281.1
1026.3	82.5°	939.0	873.5	906.2	797.0	724.2	764.3	1095.5	1292.0	1022.7	924.4
578.7	85°	538.6	567.8	640.5	527.7	418.5	469.5	804.3	928.1	771.6	680.6
189.3	87.5°	145.6	200.2	294.8	273.0	189.3	200.2	382.1	513.2	444.0	342.1
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>
7682.8
7879.4
8192.4
8570.9
8920.3
9044.0
9047.6
8887.5
8512.6
7981.3
7424.4
6914.9
6463.6
5899.5
5266.3
4636.6
4072.5
3599.4
3129.9
2864.2
2696.8
2580.4
2500.3
2412.9
2263.7
2140.0
2089.0
2085.4
2052.6
2223.7
2205.5
1557.7
1201.0
920.8
695.1
353.0
0.0

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