

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: P954947

Luminaire Tested: **GALN-SB8A-750-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954947
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-SB8A-750-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38890 lumens
Efficiency: N/A
Efficacy: 171.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

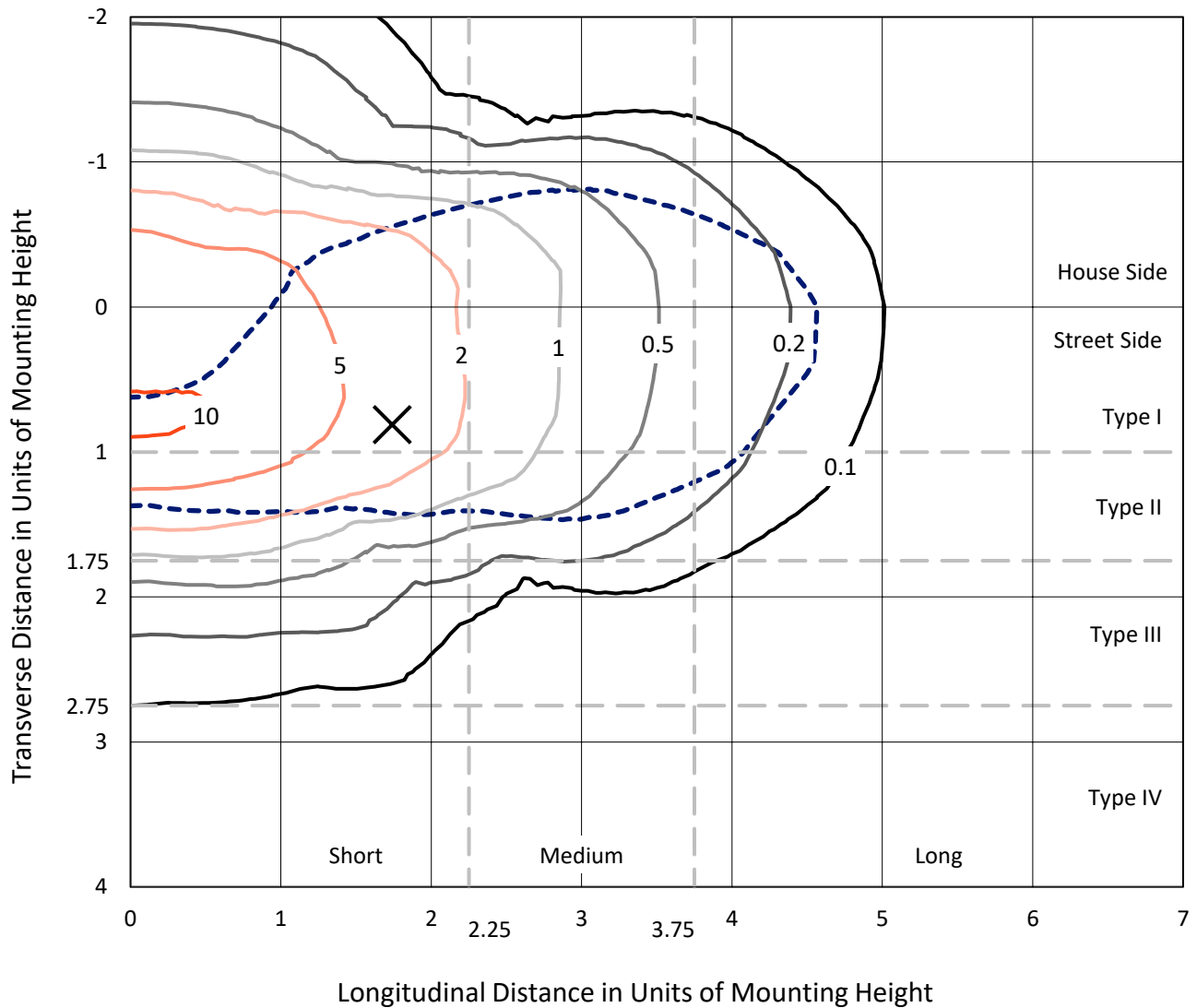
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

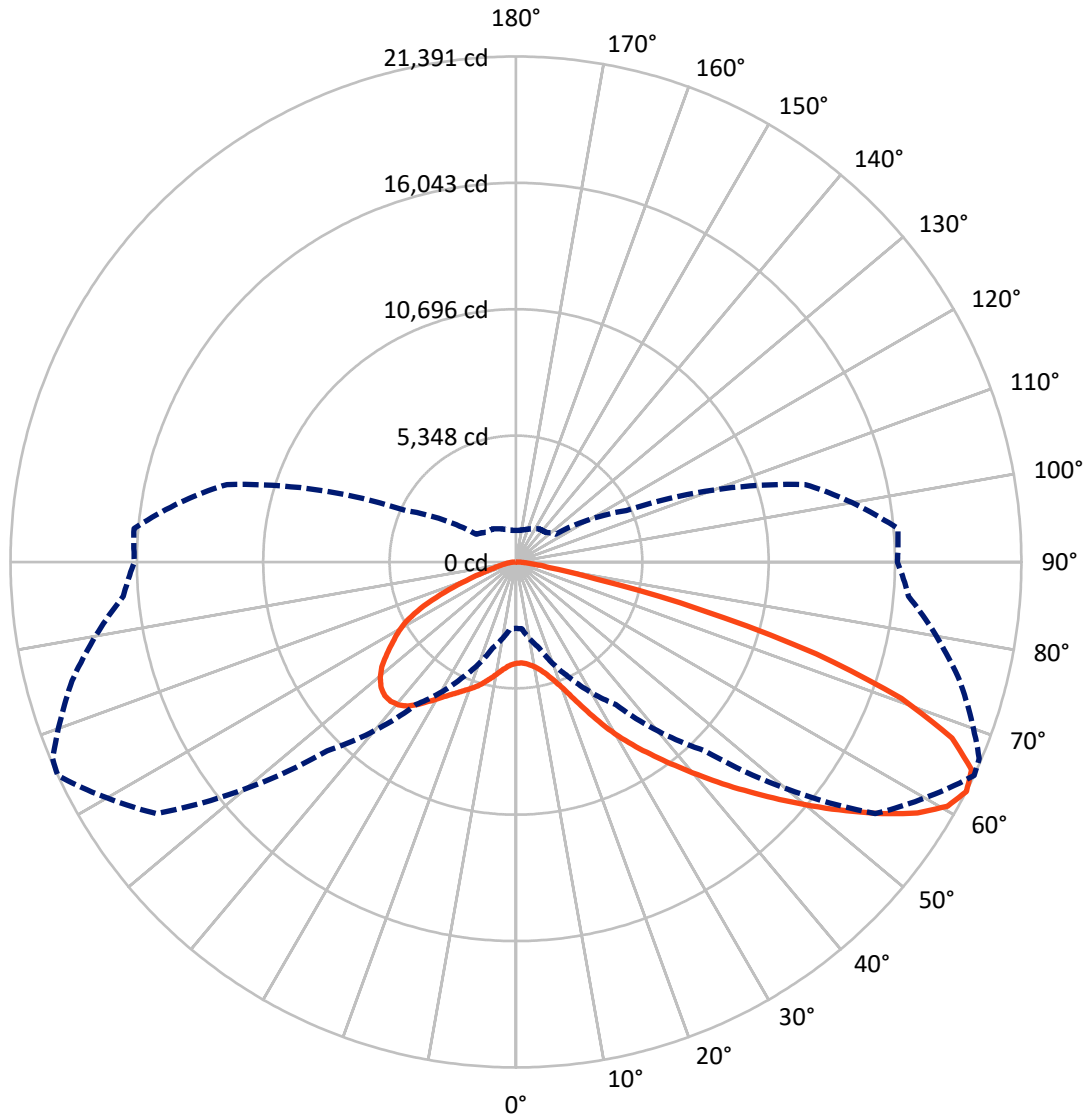
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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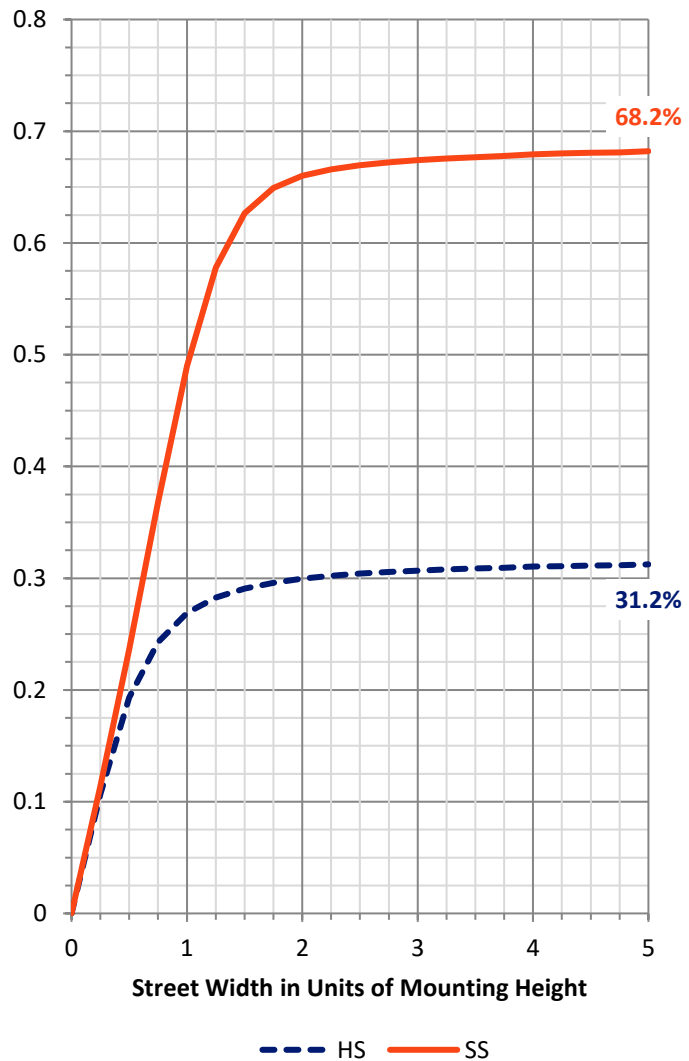
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12272.0	0.0	12272.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	26618.0	0.0	26618.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	38890.0	0.0	38890.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.3	1.1
10°-20°	1448.9	3.7
20°-30°	2937.8	7.6
30°-40°	5083.7	13.1
40°-50°	7693.3	19.8
50°-60°	9019.9	23.2
60°-70°	7562.1	19.4
70°-80°	4174.9	10.7
80°-90°	542.3	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°	38890.0	100.0
0°-180°	38890.0	100.0



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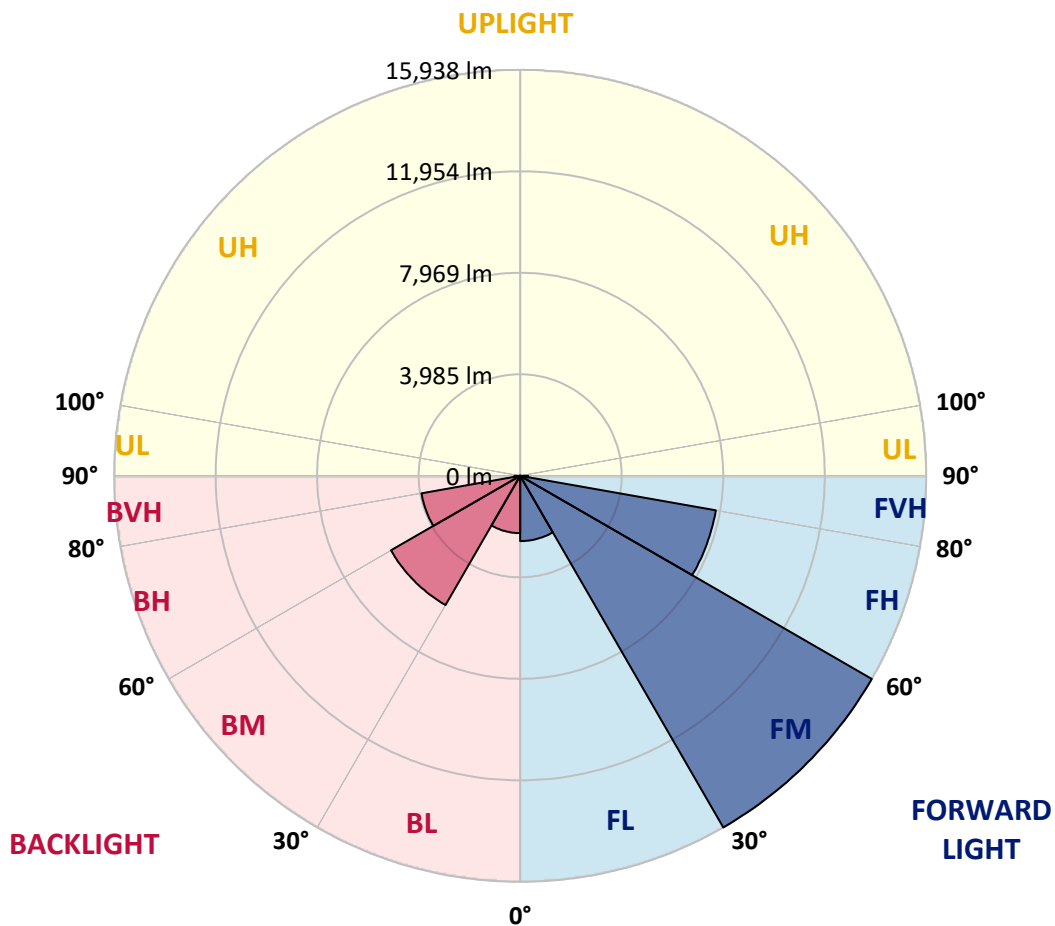
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2563.4	6.6			
FM (30°-60°)	15938.4	41.0			
FH (60°-80°)	7800.2	20.1			G4/12000
FVH (80°-90°)	316.1	0.8			G3/500
BL (0°-30°)	2250.5	5.8	B3/2500		
BM (30°-60°)	5858.5	15.1	B4/8500		
BH (60°-80°)	3936.8	10.1	B4/5000		G4/5000
BVH (80°-90°)	226.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4285.5	4285.5	4285.5	4285.5	4285.5	4285.5	4285.5	4285.5	4285.5	4285.5
2.5°	4257.3	4245.2	4255.2	4255.2	4259.3	4257.3	4271.4	4275.4	4281.5	4293.6
5°	4214.9	4212.9	4231.0	4247.2	4263.3	4277.4	4295.6	4321.8	4325.9	4340.0
7.5°	4200.8	4188.7	4216.9	4237.1	4275.4	4309.7	4358.1	4402.5	4420.7	4426.7
10°	4309.7	4289.5	4315.8	4327.9	4360.2	4394.5	4451.0	4521.6	4541.8	4566.0
12.5°	4495.3	4473.2	4511.5	4529.6	4559.9	4590.2	4628.5	4697.1	4707.2	4751.6
15°	4749.6	4723.3	4747.6	4769.7	4820.2	4848.4	4886.8	4953.4	4953.4	4987.7
17.5°	5094.6	5060.3	5078.4	5086.5	5118.8	5161.2	5225.7	5284.3	5314.5	5302.4
20°	5609.1	5566.7	5566.7	5526.4	5514.3	5548.6	5633.3	5714.0	5746.3	5683.7
22.5°	6381.9	6321.3	6287.0	6149.8	6095.4	6099.4	6184.1	6283.0	6309.2	6198.3
25°	7364.5	7269.6	7223.2	7021.5	6898.4	6791.4	6858.0	6985.1	7021.5	6884.3
27.5°	8347.1	8353.1	8308.7	8066.6	7862.8	7667.1	7632.8	7766.0	7804.3	7648.9
30°	9725.1	9581.9	9497.1	9206.6	8916.0	8641.6	8500.4	8554.9	8565.0	8379.3
32.5°	10913.5	10877.2	10695.6	10441.4	10068.1	9638.4	9402.3	9315.5	9299.4	9035.1
35°	12267.4	12247.2	12055.5	11752.9	11349.3	10752.1	10326.4	10078.2	10058.0	9686.8
37.5°	13643.4	13643.4	13455.8	13124.9	12707.2	11960.7	11313.0	10919.6	10855.0	10370.8
40°	14741.0	14674.4	14708.7	14569.5	14091.3	13298.4	12408.6	11837.6	11750.9	11169.8
42.5°	15364.5	15342.3	15548.1	15703.4	15507.7	14874.2	13615.2	12832.3	12711.3	12049.5
45°	15503.7	15479.5	15846.7	16415.7	16690.1	16429.8	14926.6	13879.5	13732.2	12969.5
47.5°	15182.9	15134.5	15673.2	16571.0	17450.7	17908.7	16347.1	15015.4	14801.6	13865.4
50°	14218.4	14172.0	14987.2	16179.6	17707.0	18913.5	17888.6	16220.0	15893.1	14825.8
52.5°	12122.1	12144.3	13421.5	15059.8	17370.0	19539.0	19216.2	17489.1	17095.6	15808.4
55°	9442.6	9491.1	11060.8	12864.6	16022.2	19444.2	20122.1	18796.5	18405.1	16732.5
57.5°	6761.2	6975.0	8445.9	10231.6	13433.6	17941.0	20319.9	20039.4	19660.1	17741.3
60°	4382.4	4420.7	5933.9	7733.7	10229.5	15269.6	19918.3	20981.6	20685.0	18770.3
62.5°	2808.6	2834.8	3756.9	5409.3	7362.4	11296.9	18566.5	21391.2	21300.4	19450.2
65°	2064.1	2043.9	2524.1	3575.3	4959.4	6967.0	15941.5	21193.5	21373.1	19876.0
67.5°	1723.1	1694.8	1930.9	2475.7	3654.0	3956.6	11795.2	19908.2	20566.0	19827.5
70°	1569.7	1545.5	1688.8	1838.1	2851.0	2649.2	5946.0	17307.5	18320.4	19276.7
72.5°	1329.6	1287.3	1483.0	1632.3	2217.4	2031.8	2457.5	13294.4	14529.2	17511.3
75°	1031.0	1002.8	1170.2	1436.6	1666.6	1585.9	1553.6	8072.7	9420.5	13542.5
77.5°	817.2	778.8	932.2	1119.8	1499.1	1196.5	1131.9	3476.4	4812.1	8645.7
80°	615.4	581.1	708.2	885.8	1152.1	901.9	732.4	1418.4	1813.9	4380.3
82.5°	437.8	407.6	494.3	649.7	774.8	809.1	449.9	795.0	893.8	1688.8
85°	280.5	262.3	330.9	407.6	492.3	520.6	274.4	415.6	456.0	696.1
87.5°	153.3	125.1	177.6	189.7	228.0	207.8	131.1	151.3	163.4	252.2
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°
4285.5	0°	4285.5	4285.5	4285.5	4285.5	4285.5	4285.5	4285.5	4285.5	4285.5	4285.5
4293.6	2.5°	4301.7	4307.7	4327.9	4333.9	4348.1	4366.2	4378.3	4390.4	4390.4	4402.5
4358.1	5°	4360.2	4374.3	4416.7	4438.9	4475.2	4511.5	4533.7	4559.9	4576.1	4584.1
4461.0	7.5°	4473.2	4495.3	4555.9	4594.2	4656.8	4707.2	4741.5	4777.8	4785.9	4808.1
4604.3	10°	4626.5	4652.7	4721.3	4794.0	4868.6	4931.2	4963.4	4989.7	4999.8	5003.8
4787.9	12.5°	4802.0	4840.4	4929.1	5017.9	5096.6	5151.1	5159.2	5153.1	5124.9	5100.6
5013.9	15°	5017.9	5052.2	5151.1	5247.9	5324.6	5334.7	5284.3	5252.0	5217.7	5211.6
5266.1	17.5°	5276.2	5294.3	5385.1	5480.0	5486.0	5451.7	5377.1	5346.8	5314.5	5292.3
5595.0	20°	5576.8	5570.8	5635.3	5675.7	5633.3	5528.4	5415.4	5365.0	5332.7	5306.4
5998.5	22.5°	5936.0	5889.5	5881.5	5871.4	5758.4	5538.5	5385.1	5320.6	5270.1	5233.8
6561.4	25°	6458.5	6281.0	6157.9	6089.3	5835.1	5484.0	5288.3	5145.0	5050.2	4987.7
7249.5	27.5°	7112.3	6813.6	6502.9	6335.5	5835.1	5373.0	5054.2	4822.2	4666.8	4602.3
7915.3	30°	7735.7	7423.0	6965.0	6632.0	5820.9	5191.4	4676.9	4354.1	4172.5	4108.0
8484.3	32.5°	8268.4	7927.4	7455.3	6956.9	5786.6	4896.9	4208.8	3851.7	3676.2	3599.5
9047.2	35°	8762.7	8399.5	7947.6	7314.0	5695.9	4465.1	3694.3	3422.0	3226.2	3103.2
9620.2	37.5°	9269.1	8837.3	8413.6	7636.8	5532.4	3960.7	3298.9	3066.8	2836.8	2671.4
10229.5	40°	9820.0	9303.4	8912.0	7828.5	5264.1	3480.5	2992.2	2780.3	2536.2	2360.7
10931.7	42.5°	10463.6	9862.3	9466.9	7927.4	4896.9	3139.5	2792.4	2584.6	2354.6	2211.4
11684.3	45°	11135.5	10477.7	9973.3	7925.4	4487.3	2980.1	2727.9	2522.1	2267.8	2118.5
12457.0	47.5°	11839.6	11121.3	10411.1	7796.2	4132.2	3002.3	2691.6	2386.9	2106.4	1961.2
13237.9	50°	12545.8	11825.5	10834.8	7554.1	3980.8	2953.9	2556.4	2197.2	1866.3	1735.2
13970.3	52.5°	13245.9	12574.1	11200.0	7209.1	3827.5	2774.3	2382.9	1951.1	1767.5	1676.7
14726.9	55°	13950.1	13314.5	11597.5	6706.7	3444.1	2564.4	2092.3	1858.3	1688.8	1606.1
15467.4	57.5°	14656.3	14170.0	11974.8	6204.3	2961.9	2306.2	1932.9	1745.3	1610.1	1539.5
16086.8	60°	15390.7	15148.6	12364.2	5742.3	2485.8	1975.3	1815.9	1654.5	1517.3	1438.6
16682.0	62.5°	16147.3	16226.0	12668.9	5147.1	2047.9	1773.5	1711.0	1545.5	1412.4	1337.7
17174.3	65°	16910.0	17265.1	12868.6	4321.8	1660.5	1581.8	1598.0	1426.5	1291.3	1226.7
17535.5	67.5°	17485.0	18013.7	12812.1	3270.6	1361.9	1400.3	1456.8	1301.4	1174.3	1123.8
17477.0	70°	17549.6	17924.9	12255.3	2239.6	1140.0	1222.7	1299.4	1178.3	1047.2	1010.8
16653.8	72.5°	16690.1	16714.3	10703.7	1462.8	964.4	1073.4	1133.9	1053.2	926.1	889.8
14569.5	75°	14436.4	13823.0	7858.8	964.4	807.1	922.1	978.6	922.1	799.0	807.1
10901.4	77.5°	10937.7	9789.7	4771.8	686.0	673.9	774.8	851.5	811.1	706.2	792.9
5482.0	80°	5635.3	5296.4	2128.6	512.5	532.7	619.4	700.1	647.7	558.9	532.7
1224.7	82.5°	1291.3	1501.1	839.3	367.2	385.4	445.9	534.7	486.3	401.5	339.0
510.5	85°	452.0	494.3	371.2	230.0	226.0	278.4	363.2	324.8	272.4	217.9
215.9	87.5°	143.3	187.6	139.2	92.8	96.8	125.1	167.5	153.3	127.1	82.7
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>
4285.5
4402.5
4588.2
4800.0
4993.7
5100.6
5211.6
5294.3
5308.5
5245.9
5011.9
4634.6
4146.3
3637.8
3143.5
2715.8
2395.0
2239.6
2142.8
1981.3
1743.3
1676.7
1598.0
1527.4
1432.5
1335.7
1224.7
1125.9
1012.9
887.8
778.8
698.1
486.3
334.9
230.0
86.8
0.0

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