

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: P944639

Luminaire Tested: **GALN-SB9C-935-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9C-935-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46901 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

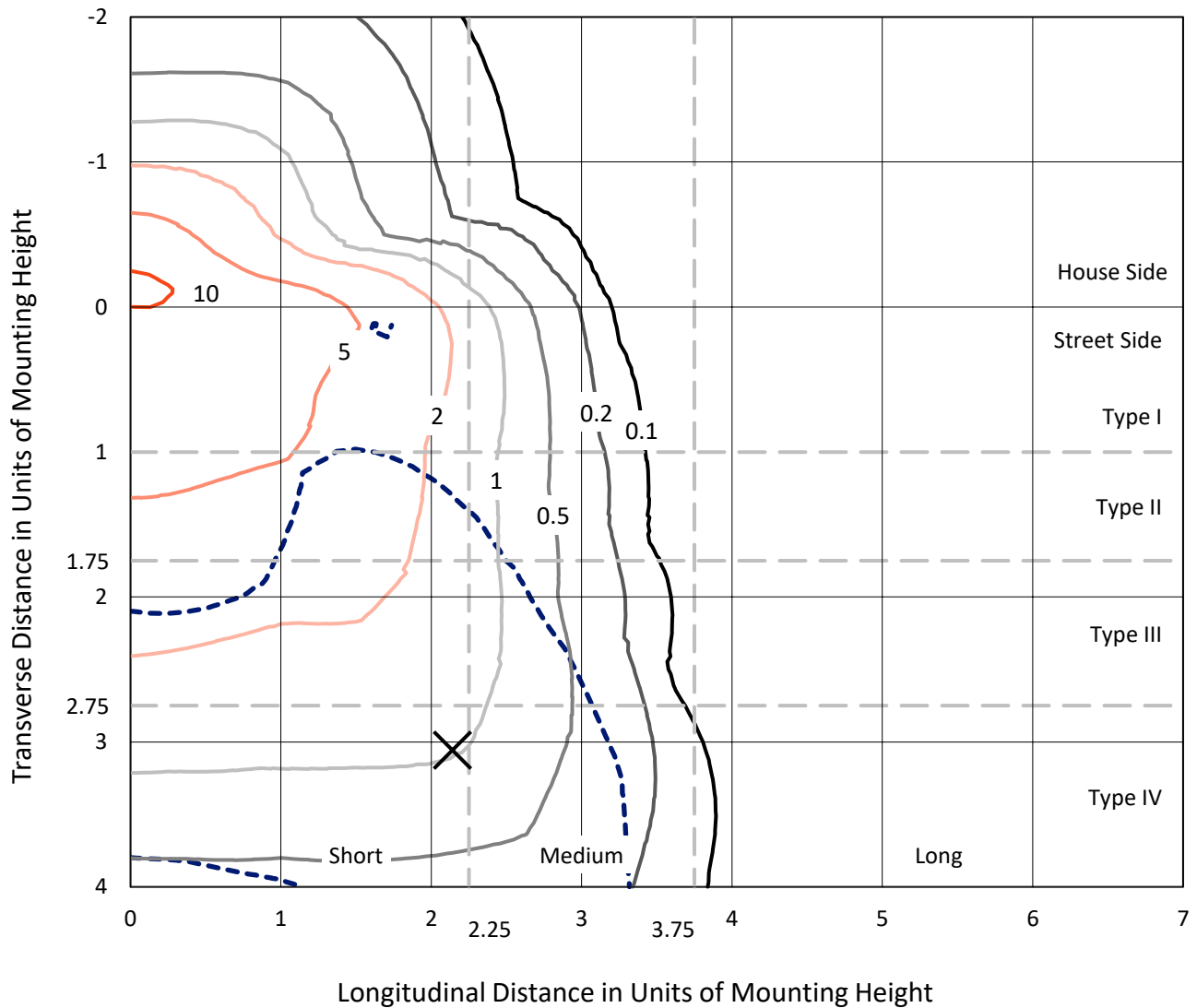
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

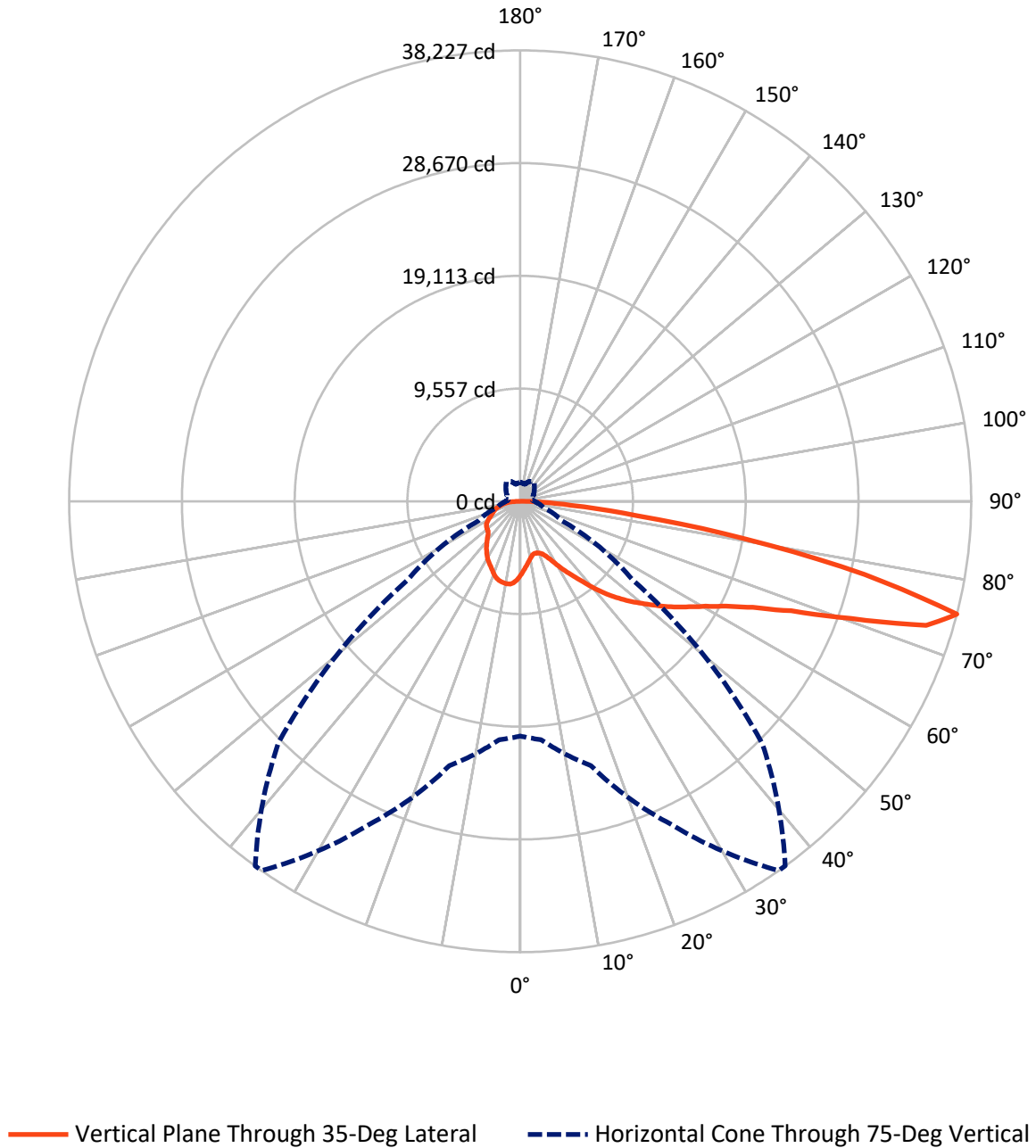
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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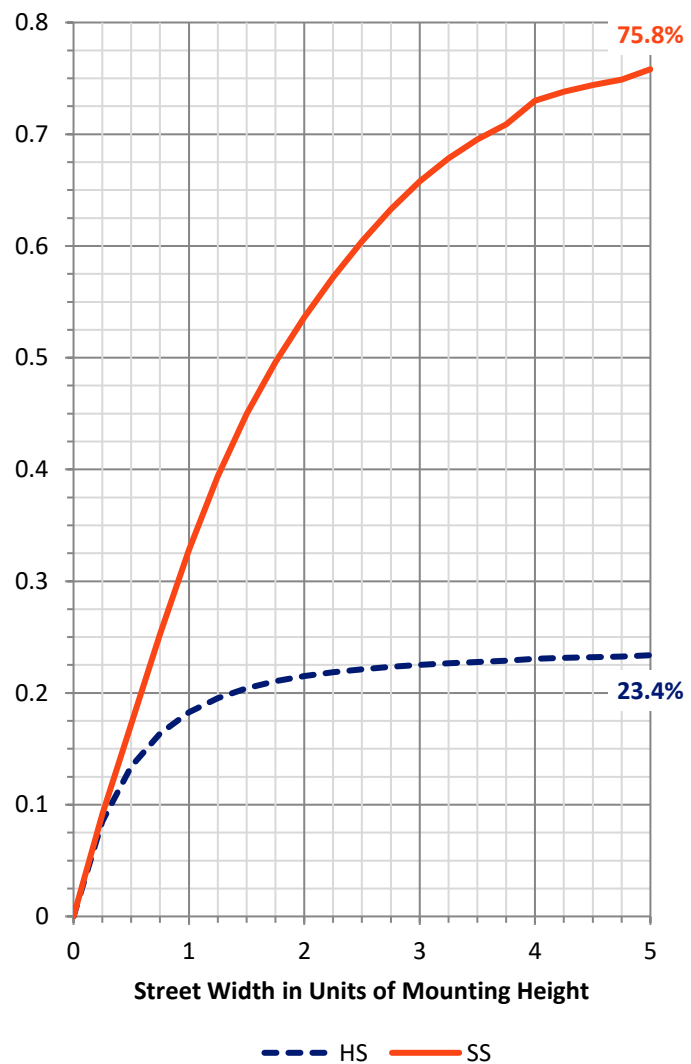
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11161.3	0.0	11161.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	35739.8	0.0	35739.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	46901.0	0.0	46901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.7	1.3
10°-20°	1706.8	3.6
20°-30°	2866.2	6.1
30°-40°	4454.5	9.5
40°-50°	6611.7	14.1
50°-60°	9127.8	19.5
60°-70°	11074.1	23.6
70°-80°	9151.9	19.5
80°-90°	1316.3	2.8
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°	46901.0	100.0
0°-180°	46901.0	100.0

Coefficient of Utilization



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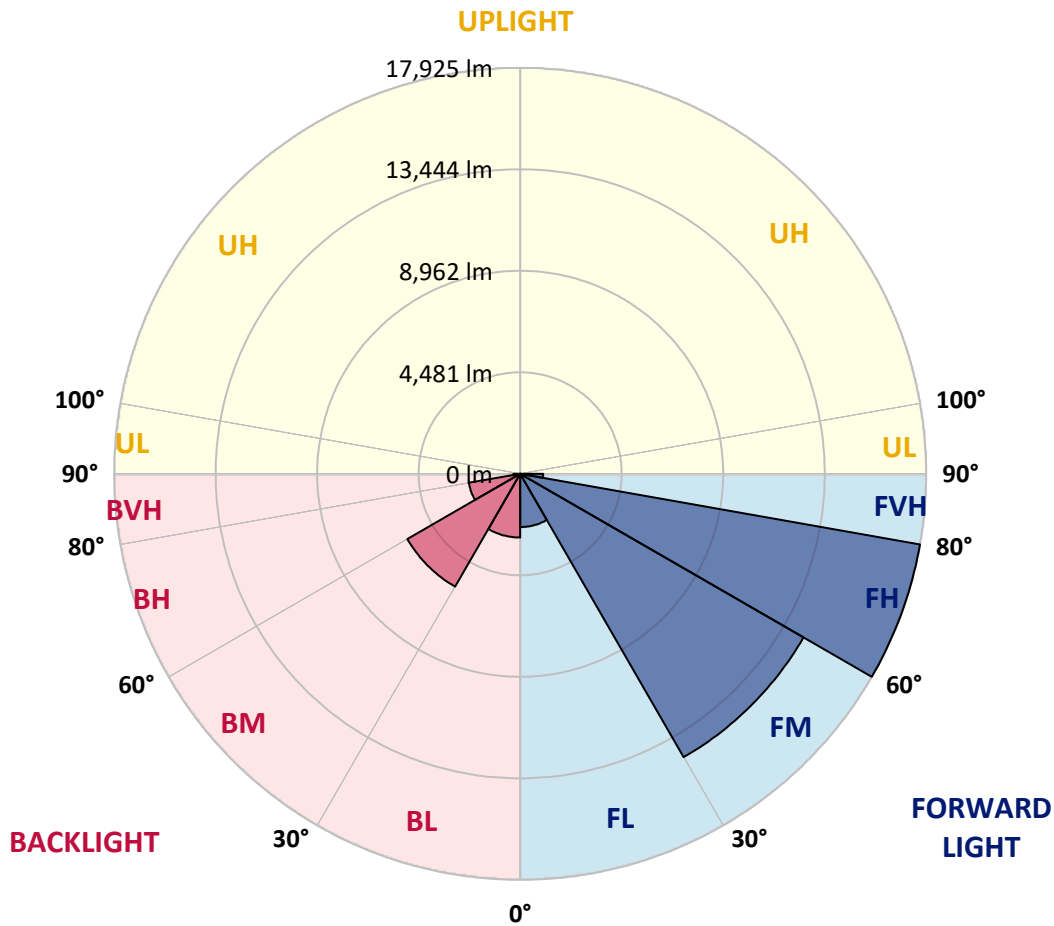
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2352.0	5.0			
FM (30°-60°)	14443.0	30.8			
FH (60°-80°)	17924.9	38.2			G5
FVH (80°-90°)	1019.9	2.2			G5
BL (0°-30°)	2812.8	6.0	B4/5000		
BM (30°-60°)	5751.0	12.3	B4/8500		
BH (60°-80°)	2301.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	296.4	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	6249.9	6249.9	6249.9	6249.9	6249.9	6249.9	6249.9	6249.9	6249.9	6249.9
2.5°	5763.1	5798.6	5813.8	5806.2	5844.2	5839.1	5892.4	5958.3	6049.6	6138.3
5°	5319.4	5357.4	5390.4	5420.8	5494.3	5517.1	5600.8	5727.6	5894.9	6064.8
7.5°	4906.1	4939.0	4989.8	5045.5	5169.8	5192.6	5332.0	5529.8	5763.1	6011.5
10°	4568.9	4601.8	4655.1	4718.5	4873.1	4901.0	5078.5	5342.2	5646.4	5960.8
12.5°	4424.4	4434.5	4464.9	4528.3	4662.7	4680.4	4875.7	5177.4	5532.3	5922.8
15°	4416.7	4437.0	4439.6	4472.5	4584.1	4591.7	4771.7	5070.9	5461.4	5915.2
17.5°	4492.8	4508.0	4485.2	4505.5	4599.3	4612.0	4754.0	5020.2	5438.5	5948.2
20°	4695.6	4708.3	4639.9	4612.0	4680.4	4690.6	4830.0	5053.1	5461.4	6016.6
22.5°	5126.7	5134.3	4966.9	4852.8	4857.9	4863.0	4984.7	5187.5	5550.1	6140.9
25°	5798.6	5793.5	5527.3	5306.7	5179.9	5152.0	5233.2	5405.6	5699.7	6305.7
27.5°	6584.6	6546.5	6280.3	5950.7	5674.3	5633.8	5616.0	5689.5	5912.7	6523.7
30°	7472.0	7436.5	7150.0	6718.9	6336.1	6270.2	6102.8	6064.8	6229.6	6820.4
32.5°	8445.6	8422.8	8080.5	7558.2	7046.0	6969.9	6688.5	6587.1	6716.4	7269.1
35°	9262.0	9241.7	8957.7	8420.2	7794.0	7700.2	7413.6	7299.6	7365.5	7844.7
37.5°	9999.8	9989.7	9746.3	9322.8	8676.3	8562.2	8240.2	8202.2	8189.5	8602.8
40°	10684.4	10659.0	10405.5	10182.4	9703.2	9599.2	9315.2	9282.3	9185.9	9535.8
42.5°	11442.5	11376.5	11008.9	10905.0	10775.6	10689.4	10519.6	10524.6	10311.7	10588.0
45°	12061.1	12023.1	11645.3	11584.5	11723.9	11688.4	11835.5	11873.5	11460.2	11690.9
47.5°	12725.4	12689.9	12370.4	12327.3	12705.1	12715.3	13235.0	13247.7	12580.9	12837.0
50°	13544.4	13493.6	13176.7	13230.0	13653.4	13691.4	14642.2	14556.0	13612.8	14000.7
52.5°	14084.4	14114.8	14046.4	14132.6	14710.7	14746.2	16026.6	15806.0	14634.6	15149.3
55°	14482.5	14543.3	14756.3	14954.1	15826.3	15861.8	17332.3	16995.1	15481.4	16214.2
57.5°	14994.6	14908.4	15306.5	15691.9	16886.1	16979.9	18602.6	18141.1	16231.9	17132.0
60°	15729.9	15669.1	15978.4	16548.9	18072.7	18222.3	19946.4	19173.0	16782.1	17859.7
62.5°	17220.8	17068.6	17116.8	17621.4	19568.6	19766.3	21462.6	20073.1	17055.9	18143.7
65°	19449.4	19188.3	18944.9	19294.7	21675.5	21870.8	23174.0	20780.5	16954.5	17593.5
67.5°	22256.1	21997.5	21698.4	22028.0	24778.9	24933.6	25286.0	21178.6	16155.9	15473.8
70°	24571.0	24474.7	24832.2	26188.6	29735.7	29740.8	27993.9	20849.0	13967.8	10970.9
72.5°	24264.2	24205.9	26089.7	30283.4	35983.1	35848.7	30557.2	18354.1	9409.0	4949.2
75°	19905.8	20283.6	23201.9	30209.8	38226.9	38209.2	28987.8	11668.1	3891.9	2051.2
77.5°	10674.2	11272.6	15063.1	22304.3	29842.2	30291.0	20379.9	4082.1	1670.9	1313.4
80°	3481.2	4003.5	6003.9	11356.3	19391.1	19307.4	8734.6	1602.4	1143.5	930.5
82.5°	1478.2	1539.0	2682.5	5362.5	9951.6	9797.0	2781.4	920.4	803.7	636.4
85°	578.1	646.5	1184.1	2479.7	4310.3	4216.4	1004.0	456.4	514.7	415.8
87.5°	190.2	230.7	423.4	849.4	1341.3	1293.1	245.9	157.2	223.1	190.2
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°
6249.9	0°	6249.9	6249.9	6249.9	6249.9	6249.9	6249.9	6249.9	6249.9	6249.9	6249.9
6267.6	2.5°	6303.1	6343.7	6391.9	6462.9	6523.7	6574.4	6627.7	6660.6	6673.3	6711.3
6277.8	5°	6348.8	6437.5	6556.7	6673.3	6787.4	6855.8	6916.7	6947.1	6975.0	6995.3
6305.7	7.5°	6424.8	6538.9	6726.5	6878.7	6975.0	7030.8	7071.4	7061.2	7071.4	7076.4
6336.1	10°	6490.7	6650.5	6873.6	7018.1	7091.6	7094.2	7084.0	7048.5	7030.8	7033.3
6381.7	12.5°	6569.3	6746.8	6987.7	7109.4	7129.7	7073.9	7030.8	6969.9	6947.1	6937.0
6450.2	15°	6675.8	6878.7	7111.9	7157.6	7106.9	7035.9	6962.3	6863.5	6812.7	6772.2
6566.8	17.5°	6805.1	7028.3	7208.3	7175.3	7066.3	6949.7	6830.5	6680.9	6576.9	6533.8
6726.5	20°	6985.2	7185.5	7281.8	7137.3	6972.5	6795.0	6592.2	6409.6	6313.3	6270.2
6929.4	22.5°	7203.2	7395.9	7352.8	7071.4	6838.1	6554.1	6300.6	6166.2	6118.0	6087.6
7190.5	25°	7464.4	7629.2	7403.5	6975.0	6617.5	6234.7	6039.4	5996.3	5973.5	5950.7
7510.0	27.5°	7804.1	7892.8	7441.5	6833.0	6272.7	5894.9	5823.9	5831.5	5823.9	5785.9
7953.7	30°	8252.9	8235.1	7477.0	6602.3	5877.2	5588.1	5593.2	5626.2	5631.2	5605.9
8572.3	32.5°	8843.6	8663.6	7494.8	6303.1	5499.4	5319.4	5324.4	5359.9	5385.3	5342.2
9381.2	35°	9558.6	9163.1	7466.9	5927.9	5207.8	5063.3	5025.3	5035.4	5043.0	5002.4
10362.4	37.5°	10392.8	9723.4	7342.7	5512.1	4966.9	4812.3	4731.1	4662.7	4622.1	4584.1
11472.9	40°	11308.1	10334.5	7114.5	5106.4	4698.2	4546.1	4424.4	4295.0	4158.1	4107.4
12649.3	42.5°	12266.5	10963.3	6838.1	4718.5	4388.9	4264.6	4135.3	3947.7	3742.3	3638.4
13871.4	45°	13260.4	11607.3	6566.8	4335.6	4071.9	4018.7	3869.1	3643.4	3420.3	3288.5
15096.0	47.5°	14234.0	12215.8	6168.7	3950.2	3775.3	3833.6	3717.0	3509.1	3260.6	3052.7
16310.5	50°	15164.5	12786.3	5517.1	3559.8	3534.4	3777.8	3666.3	3367.1	3083.1	2816.9
17502.2	52.5°	16087.4	13247.7	4683.0	3204.8	3405.1	3762.6	3600.3	3270.7	2923.4	2644.5
18622.9	55°	16870.9	13486.0	3879.2	2900.6	3217.5	3633.3	3521.7	3156.6	2697.7	2401.1
19391.1	57.5°	17317.1	13293.3	3209.9	2601.4	2958.9	3420.3	3387.4	2913.2	2429.0	2200.8
19540.7	60°	17124.4	12512.4	2662.2	2340.2	2712.9	3189.6	3154.1	2672.4	2223.6	2008.1
18739.5	62.5°	16062.1	11024.1	2228.7	2112.0	2489.8	2953.8	2920.8	2487.3	2066.4	1858.5
16612.2	65°	13922.1	8967.9	1891.4	1921.9	2264.2	2669.8	2718.0	2332.6	1942.2	1739.3
12852.2	67.5°	10618.4	6495.8	1627.8	1757.1	2043.6	2390.9	2530.4	2221.1	1838.2	1645.5
7436.5	70°	6052.1	3689.1	1404.6	1597.3	1848.3	2132.3	2385.9	2132.3	1726.6	1566.9
2786.5	72.5°	2294.6	1693.7	1214.5	1437.6	1660.7	1914.3	2226.1	1992.9	1597.3	1478.2
1440.1	75°	1224.6	1031.9	1021.8	1250.0	1445.2	1701.3	2025.8	1855.9	1501.0	1561.8
996.4	77.5°	834.2	730.2	854.4	1070.0	1209.4	1465.5	1812.8	1648.0	1300.7	1295.6
689.6	80°	578.1	517.2	694.7	862.1	935.6	1232.2	1582.1	1414.8	1059.8	988.8
426.0	82.5°	347.4	337.2	519.8	644.0	661.8	950.8	1310.8	1186.6	867.1	755.6
253.5	85°	190.2	200.3	332.1	377.8	385.4	664.3	1026.9	917.8	666.8	560.3
91.3	87.5°	53.2	68.5	121.7	149.6	185.1	344.8	611.0	545.1	334.7	233.3
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>
6249.9
6708.8
7000.4
7084.0
7038.4
6931.9
6784.9
6536.4
6265.1
6092.7
5950.7
5793.5
5618.5
5362.5
5030.3
4609.4
4130.2
3651.0
3278.3
3029.9
2794.1
2614.0
2375.7
2170.3
1977.6
1825.5
1706.4
1615.1
1546.6
1457.9
<i>1612.5</i>
1194.2
945.7
760.6
565.4
233.3
0.0

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