

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: P956484

Luminaire Tested: **GALN-SB9A-840-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9A-840-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39005 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

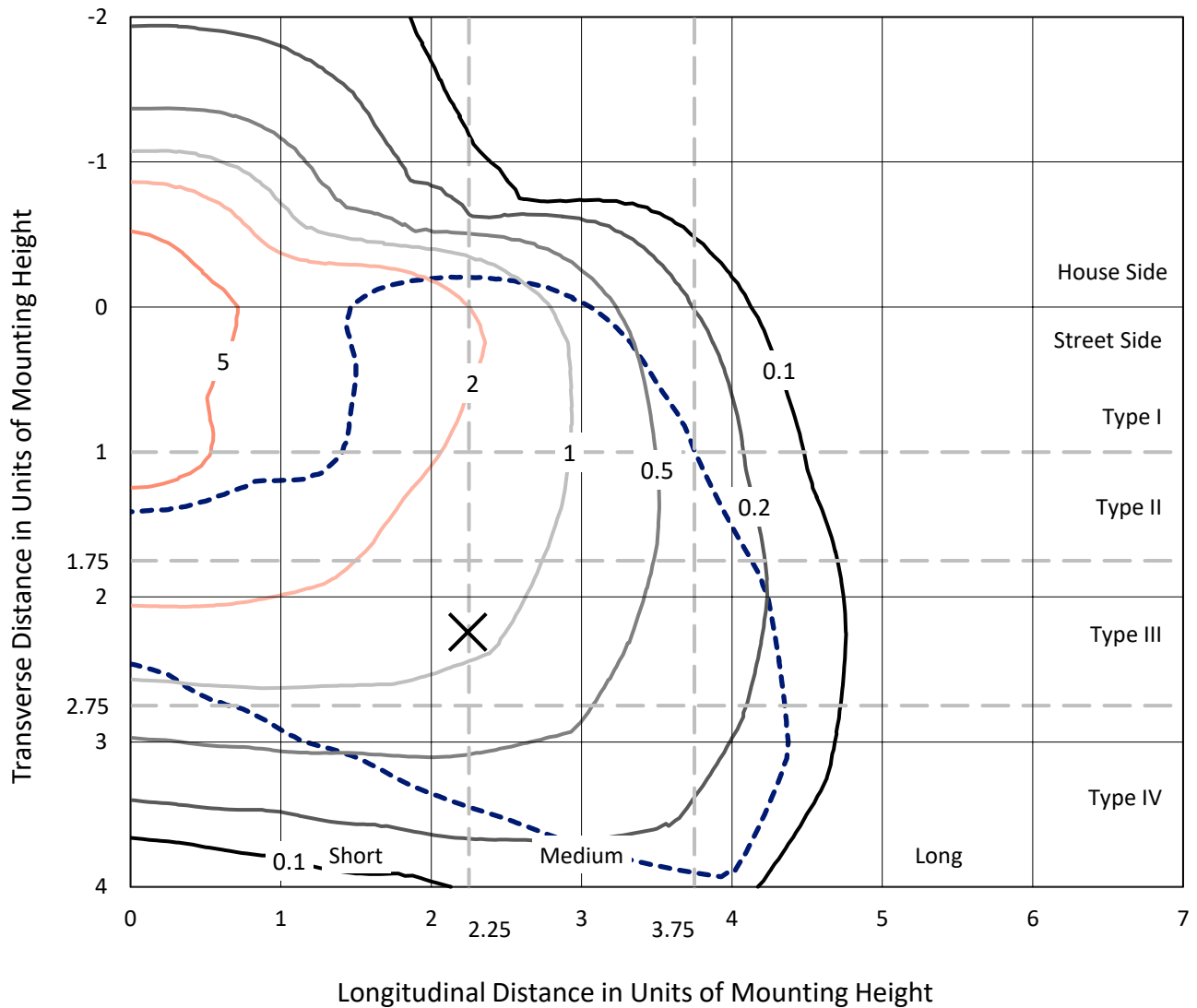
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

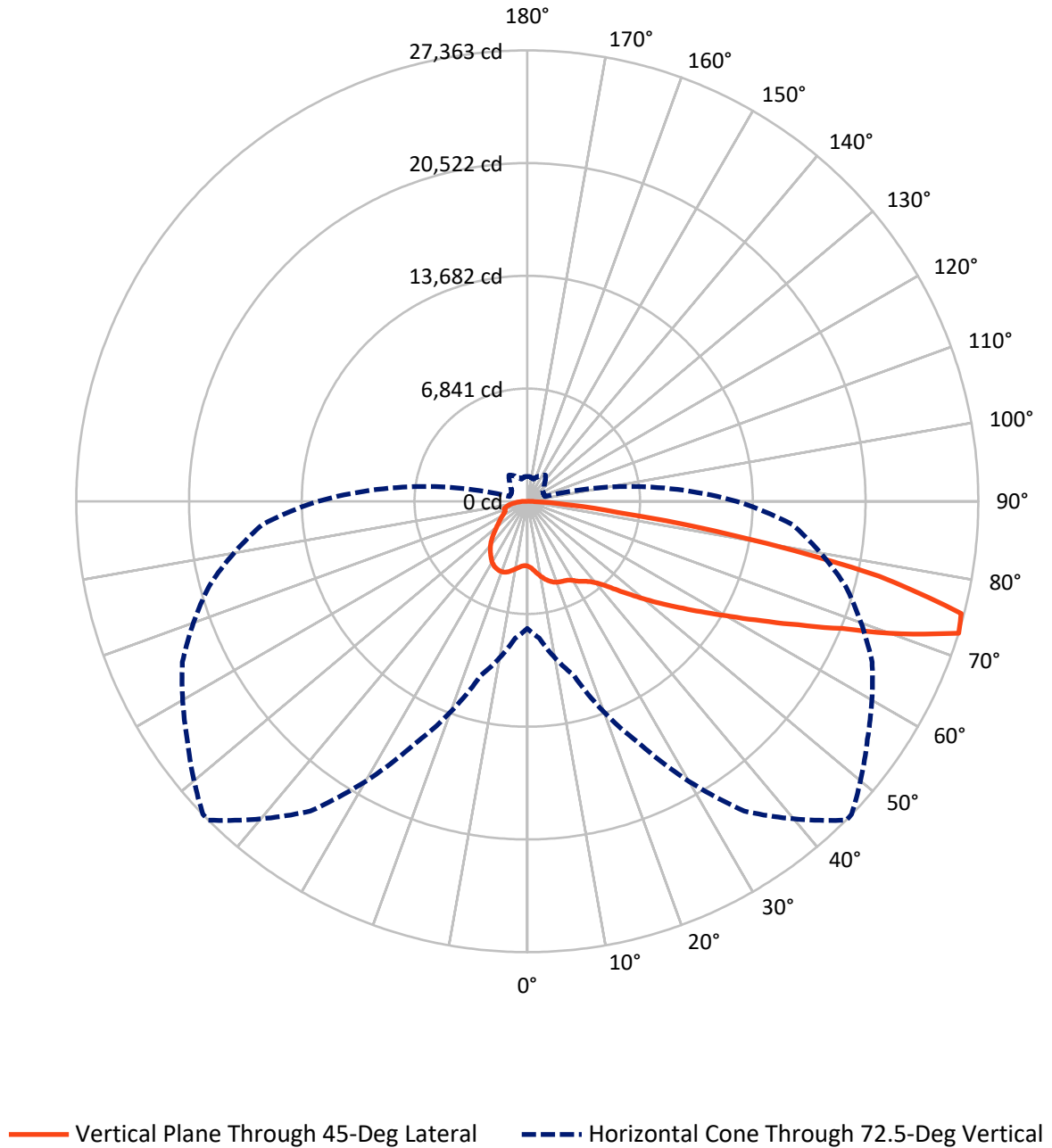
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	8817.7	0.0	8817.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	30187.3	0.0	30187.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	39005.0	0.0	39005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.5	1.0
10°-20°	1335.3	3.4
20°-30°	2322.8	6.0
30°-40°	3329.9	8.5
40°-50°	4688.6	12.0
50°-60°	7181.6	18.4
60°-70°	10403.6	26.7
70°-80°	8307.9	21.3
80°-90°	1034.7	2.7
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°	39005.0	100.0
0°-180°	39005.0	100.0

Coefficient of Utilization



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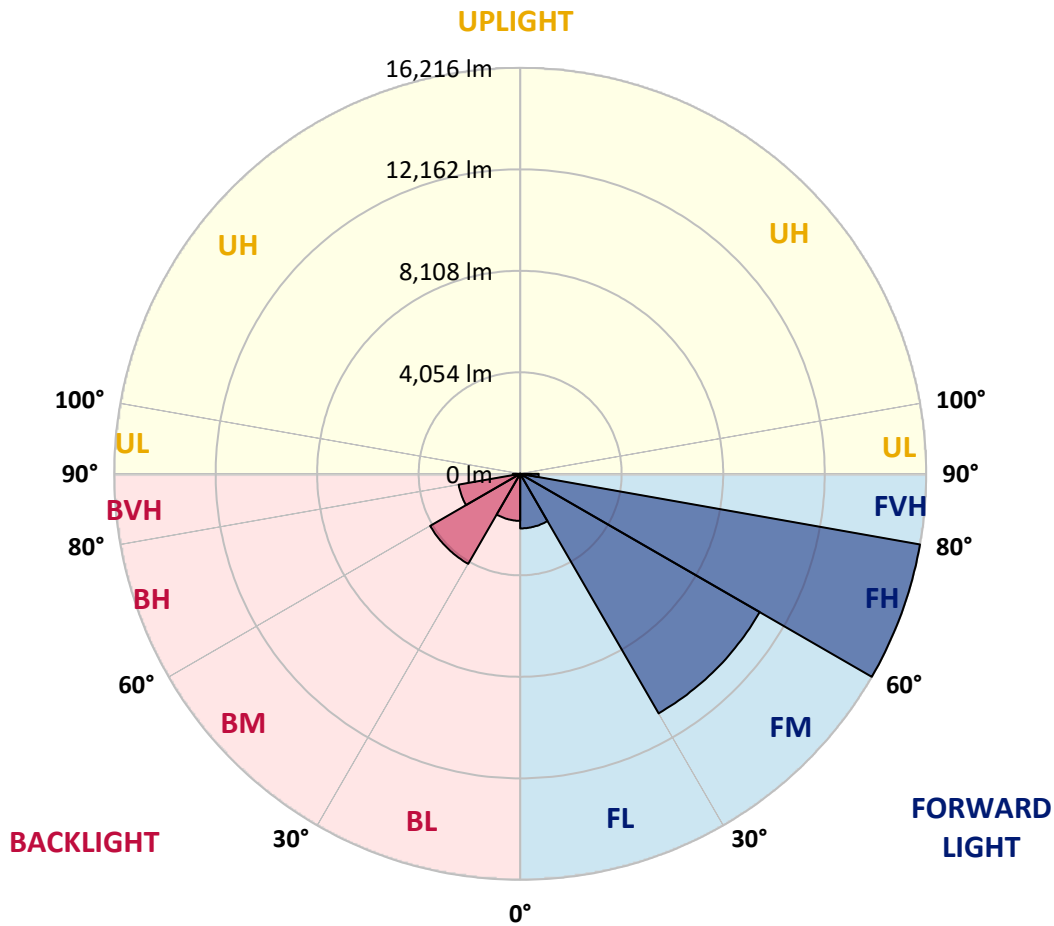
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2181.2	5.6			
FM (30°-60°)	11048.2	28.3			
FH (60°-80°)	16215.5	41.6			G5
FVH (80°-90°)	742.3	1.9			G4/750
BL (0°-30°)	1877.4	4.8	B3/2500		
BM (30°-60°)	4151.9	10.6	B3/5000		
BH (60°-80°)	2496.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	292.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8
2.5°	4089.0	4115.7	4091.0	4068.4	4058.1	4031.4	4029.4	4012.9	4002.7	3973.9
5°	4374.6	4409.5	4368.4	4323.2	4282.1	4216.3	4208.1	4160.9	4107.4	4045.8
7.5°	4697.2	4728.0	4680.7	4612.9	4541.0	4432.1	4430.0	4343.7	4259.5	4154.7
10°	4978.7	5019.8	4956.1	4863.6	4773.2	4649.9	4635.5	4536.9	4430.0	4294.4
12.5°	5227.3	5256.0	5194.4	5081.4	4976.6	4853.3	4834.8	4725.9	4606.7	4452.6
15°	5424.5	5461.5	5379.3	5258.1	5147.1	5025.9	5009.5	4910.9	4791.7	4629.4
17.5°	5554.0	5584.8	5500.6	5365.0	5258.1	5157.4	5145.1	5062.9	4958.1	4793.7
20°	5603.3	5636.2	5547.8	5410.2	5311.5	5233.4	5227.3	5167.7	5095.8	4945.8
22.5°	5652.6	5683.4	5568.4	5424.5	5338.2	5288.9	5286.9	5247.8	5219.1	5095.8
25°	5851.9	5860.1	5706.0	5498.5	5375.2	5332.1	5330.0	5328.0	5340.3	5243.7
27.5°	6024.5	6022.5	5891.0	5695.8	5504.7	5414.3	5412.2	5432.8	5471.8	5391.7
30°	6277.3	6254.7	6098.5	5895.1	5720.4	5580.7	5568.4	5549.9	5580.7	5517.0
32.5°	6813.5	6741.6	6488.9	6127.3	5899.2	5792.3	5775.9	5660.8	5673.2	5634.1
35°	7582.0	7487.5	7150.5	6567.0	6121.1	5969.0	5960.8	5814.9	5790.3	5755.4
37.5°	8496.4	8379.3	7986.8	7204.0	6503.3	6174.5	6162.2	6030.7	5930.0	5893.0
40°	9414.9	9266.9	8942.3	7980.6	7066.3	6517.7	6478.6	6279.3	6164.2	6102.6
42.5°	10306.6	10183.3	9905.9	8851.9	7760.8	7019.0	6932.7	6591.6	6505.3	6447.8
45°	11095.6	10984.7	10781.3	9782.7	8574.5	7701.2	7617.0	7060.1	7033.4	7033.4
47.5°	11736.7	11712.1	11496.3	10732.0	9534.0	8477.9	8332.0	7711.5	7783.4	7894.3
50°	12447.7	12379.9	12149.7	11666.9	10662.1	9367.6	9248.4	8510.8	8779.9	9084.0
52.5°	13101.1	13138.1	12881.2	12640.8	11936.0	10360.0	10150.5	9453.9	10035.4	10538.8
55°	13773.0	13775.0	13703.1	13670.2	13271.6	11457.3	11227.2	10588.1	11512.8	12137.4
57.5°	14403.8	14407.9	14514.8	14804.5	14820.9	12723.0	12462.1	11981.2	13154.5	13791.5
60°	14966.8	14995.6	15287.3	15965.4	16183.2	14173.7	13927.1	13627.1	14851.7	15492.8
62.5°	15155.8	15260.6	15909.9	16873.6	17529.1	15953.1	15710.6	15531.9	16635.3	17231.1
65°	14835.3	15075.7	16331.1	17623.6	18914.0	18067.4	17827.0	17631.8	18488.6	19049.6
67.5°	14048.3	14358.6	16306.5	18410.6	20594.8	20611.2	20387.2	19929.0	20475.6	20691.3
70°	11975.1	12439.5	14870.2	18704.4	22524.2	24089.9	23874.1	22694.7	22458.4	21414.6
72.5°	7715.6	8340.2	10949.8	16285.9	22953.6	27363.1	27350.8	25191.2	23085.1	20009.2
75°	2815.0	3197.2	5087.6	10222.4	19267.4	27196.7	27276.8	24763.8	21073.5	15455.8
77.5°	1025.3	1121.9	1660.2	3928.7	11849.7	21821.4	21987.9	19797.5	14999.7	7756.7
80°	538.3	591.8	850.7	1524.6	5077.3	12959.3	13220.3	11765.5	7049.8	2336.3
82.5°	297.9	322.6	476.7	828.1	2286.9	5541.7	5697.8	4647.8	2480.1	990.4
85°	160.3	170.5	224.0	452.0	1117.8	1921.2	1964.3	1389.0	988.3	581.5
87.5°	47.3	57.5	74.0	143.8	437.7	431.5	441.8	275.3	390.4	293.8
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°
3934.8	0°	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8
3965.7	2.5°	3953.3	3947.2	3924.6	3914.3	3902.0	3899.9	3910.2	3912.2	3914.3	3916.4
4010.9	5°	3990.3	3969.8	3949.2	3936.9	3941.0	3943.1	3963.6	3978.0	3988.3	3996.5
4095.1	7.5°	4062.2	4045.8	4010.9	4008.8	4015.0	4033.5	4060.2	4093.1	4111.6	4125.9
4204.0	10°	4169.1	4138.3	4097.2	4103.3	4115.7	4142.4	4197.9	4224.6	4255.4	4282.1
4337.6	12.5°	4278.0	4251.3	4204.0	4208.1	4228.7	4275.9	4329.4	4362.2	4382.8	4403.3
4481.4	15°	4419.8	4372.5	4321.1	4321.1	4358.1	4409.5	4434.1	4460.9	4473.2	4495.8
4635.5	17.5°	4565.7	4504.0	4436.2	4432.1	4477.3	4502.0	4516.3	4520.4	4524.6	4549.2
4785.5	20°	4711.5	4643.7	4547.2	4538.9	4549.2	4545.1	4543.1	4538.9	4545.1	4575.9
4939.6	22.5°	4855.4	4777.3	4643.7	4606.7	4578.0	4538.9	4536.9	4534.8	4538.9	4569.8
5106.1	25°	5023.9	4929.3	4750.6	4639.6	4543.1	4489.6	4495.8	4497.8	4502.0	4526.6
5278.7	27.5°	5206.7	5101.9	4849.2	4629.4	4454.7	4417.7	4407.4	4413.6	4428.0	4467.0
5451.3	30°	5389.6	5266.3	4939.6	4588.3	4343.7	4292.4	4259.5	4273.9	4319.1	4358.1
5601.2	32.5°	5556.0	5432.8	5011.5	4497.8	4202.0	4121.8	4078.7	4097.2	4142.4	4156.8
5767.7	35°	5751.2	5611.5	5042.4	4354.0	4047.9	3924.6	3867.0	3840.3	3862.9	3848.5
5962.9	37.5°	5969.0	5823.2	5038.2	4165.0	3867.0	3725.3	3645.1	3544.4	3497.2	3447.9
6250.5	40°	6291.6	6082.1	4988.9	3936.9	3643.1	3513.6	3369.8	3199.2	3092.4	2995.8
6714.9	42.5°	6731.4	6441.6	4898.5	3686.2	3390.3	3269.1	3073.9	2874.6	2706.1	2545.8
7419.7	45°	7386.8	6912.2	4785.5	3419.1	3117.1	2997.9	2786.2	2562.3	2371.2	2165.7
8420.4	47.5°	8332.0	7545.0	4678.7	3115.0	2829.4	2720.5	2529.4	2321.9	2095.8	1896.5
9866.9	50°	9630.6	8453.2	4580.0	2819.1	2545.8	2463.6	2311.6	2100.0	1871.9	1711.6
11562.1	52.5°	11282.6	9688.1	4538.9	2533.5	2280.8	2250.0	2128.7	1931.5	1715.7	1580.1
13538.7	55°	13179.2	11165.5	4538.9	2260.2	2048.6	2058.9	1974.6	1791.7	1604.8	1483.5
15577.1	57.5°	15114.7	12661.4	4456.8	2007.5	1851.3	1894.5	1841.1	1680.8	1512.3	1387.0
17720.2	60°	16898.3	13914.8	4123.9	1777.4	1676.7	1744.5	1709.6	1571.9	1366.4	1261.6
19511.9	62.5°	18268.8	14621.6	3482.8	1594.5	1532.8	1610.9	1592.4	1428.1	1339.7	1296.5
20983.1	65°	18955.1	14506.5	2663.0	1432.2	1411.6	1532.8	1493.8	1487.6	1417.8	1368.5
21461.9	67.5°	18533.8	13516.1	1931.5	1313.0	1341.8	1460.9	1610.9	1635.6	1506.1	1409.6
20113.9	70°	16686.6	11724.4	1438.3	1200.0	1253.4	1463.0	1836.9	1711.6	1477.4	1364.4
16131.8	72.5°	12694.2	8743.0	1115.7	1080.8	1138.3	1473.3	1937.6	1676.7	1395.2	1508.2
10049.8	75°	7259.4	4799.9	895.9	934.9	994.5	1376.7	1886.3	1586.3	1331.5	1384.9
3982.1	77.5°	2767.7	1845.2	739.7	791.1	799.3	1202.0	1804.1	1580.1	1267.8	1237.0
1193.8	80°	959.6	721.2	612.3	628.8	618.5	1068.5	1730.1	1374.6	1037.6	928.7
493.1	82.5°	392.5	359.6	484.9	464.4	439.7	830.1	1397.2	1123.9	848.6	750.0
238.4	85°	170.5	228.1	320.5	281.5	254.8	575.3	1119.8	951.3	717.1	618.5
78.1	87.5°	34.9	86.3	135.6	127.4	131.5	384.2	795.2	676.0	507.5	380.1
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>
3934.8
3924.6
4000.6
4130.0
4275.9
4411.5
4504.0
4557.4
4588.3
4590.3
4559.5
4506.1
4401.3
4208.1
3893.8
3478.7
3002.0
2531.5
2141.0
1873.9
1701.3
1569.8
1471.2
1366.4
1245.2
1282.2
1352.0
1393.1
1345.9
1495.9
1384.9
1128.1
897.9
741.8
616.4
297.9
0.0

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