

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: P956417

Luminaire Tested: **GALN-SB9A-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956417
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-SB9A-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36005 lumens
Efficiency: N/A
Efficacy: 140.9 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

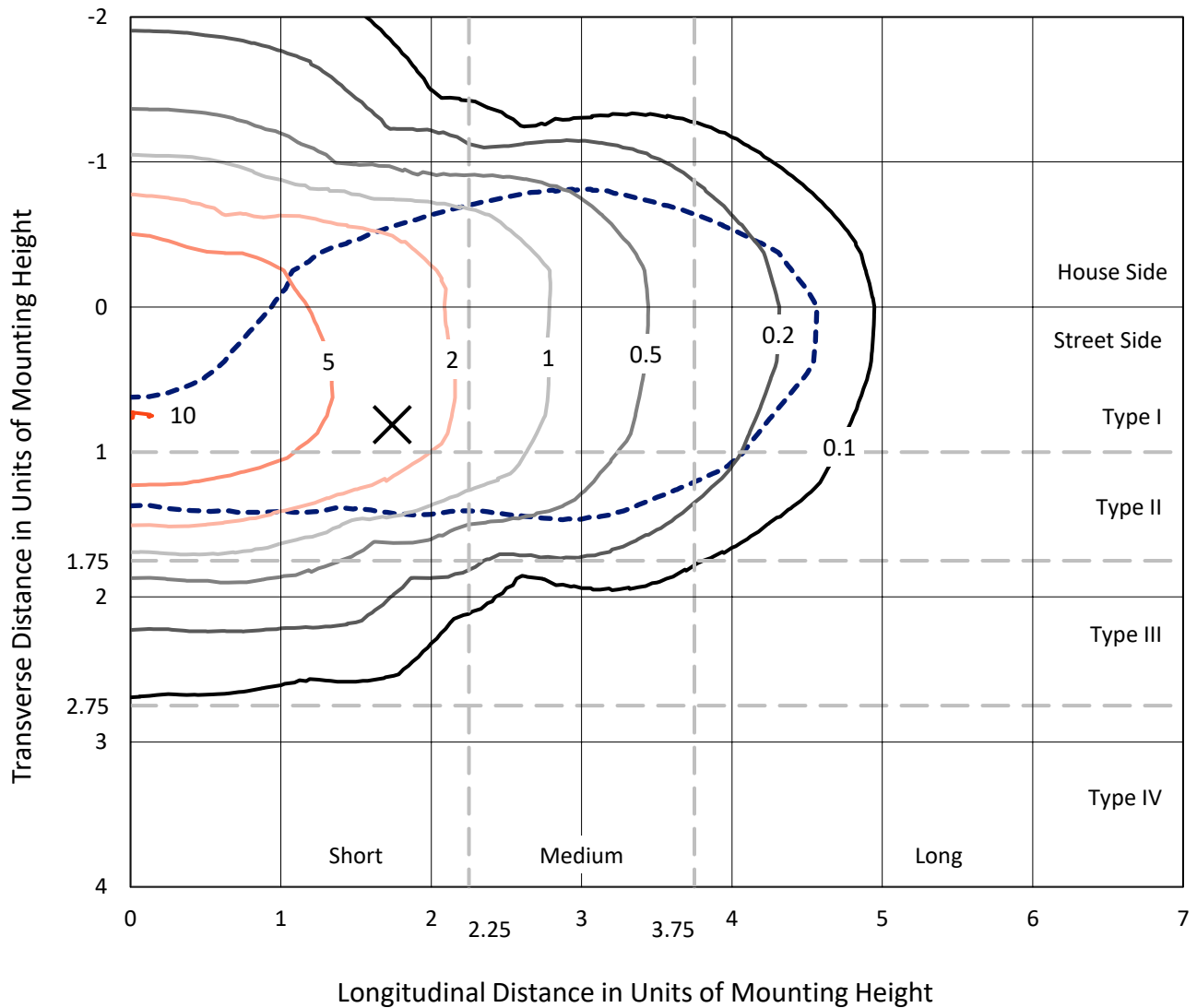
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

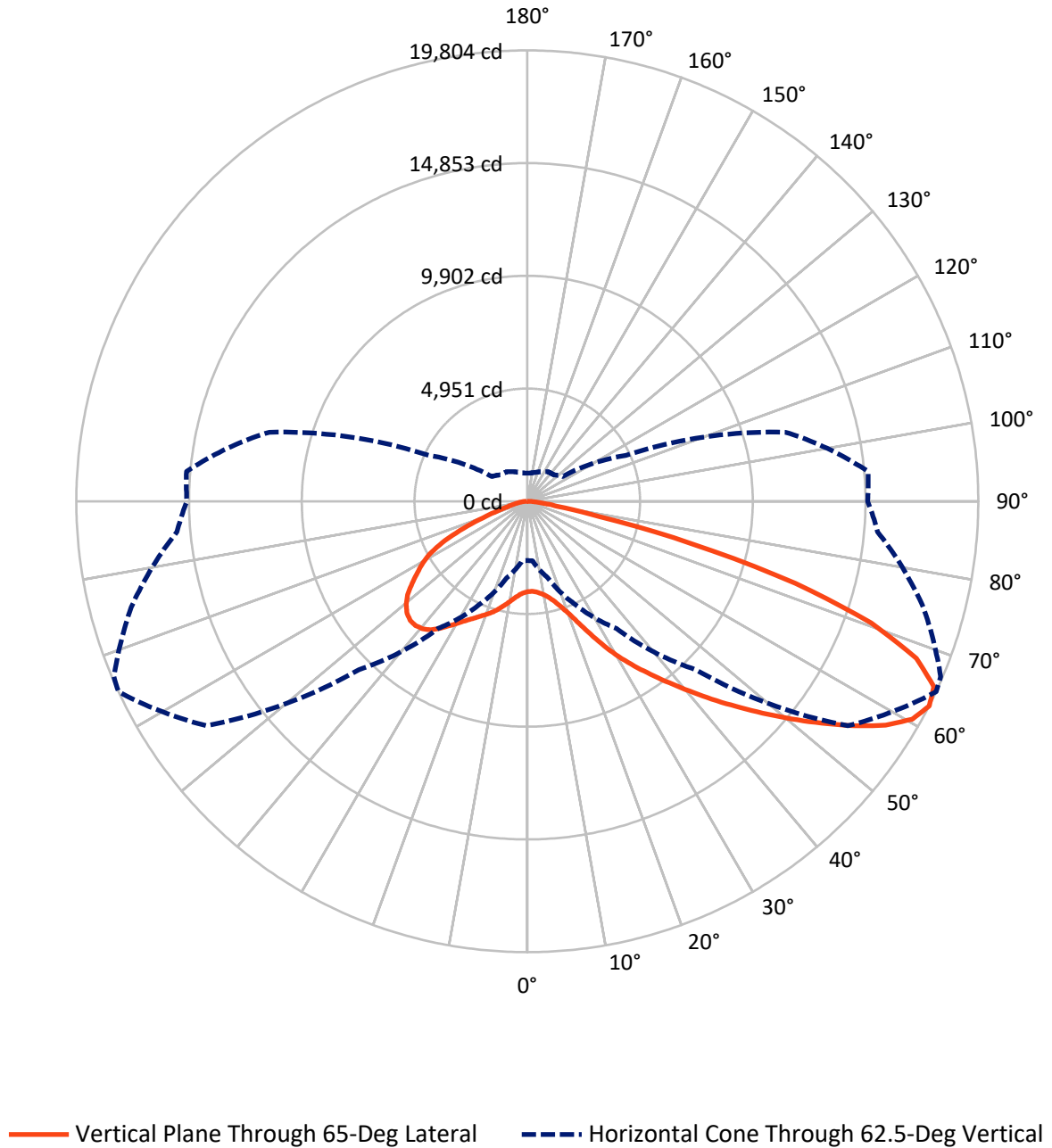
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11361.6	0.0	11361.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	24643.4	0.0	24643.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	36005.0	0.0	36005.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.6	1.1
10°-20°	1341.4	3.7
20°-30°	2719.8	7.6
30°-40°	4706.6	13.1
40°-50°	7122.6	19.8
50°-60°	8350.7	23.2
60°-70°	7001.1	19.4
70°-80°	3865.2	10.7
80°-90°	502.1	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°	36005.0	100.0
0°-180°	36005.0	100.0

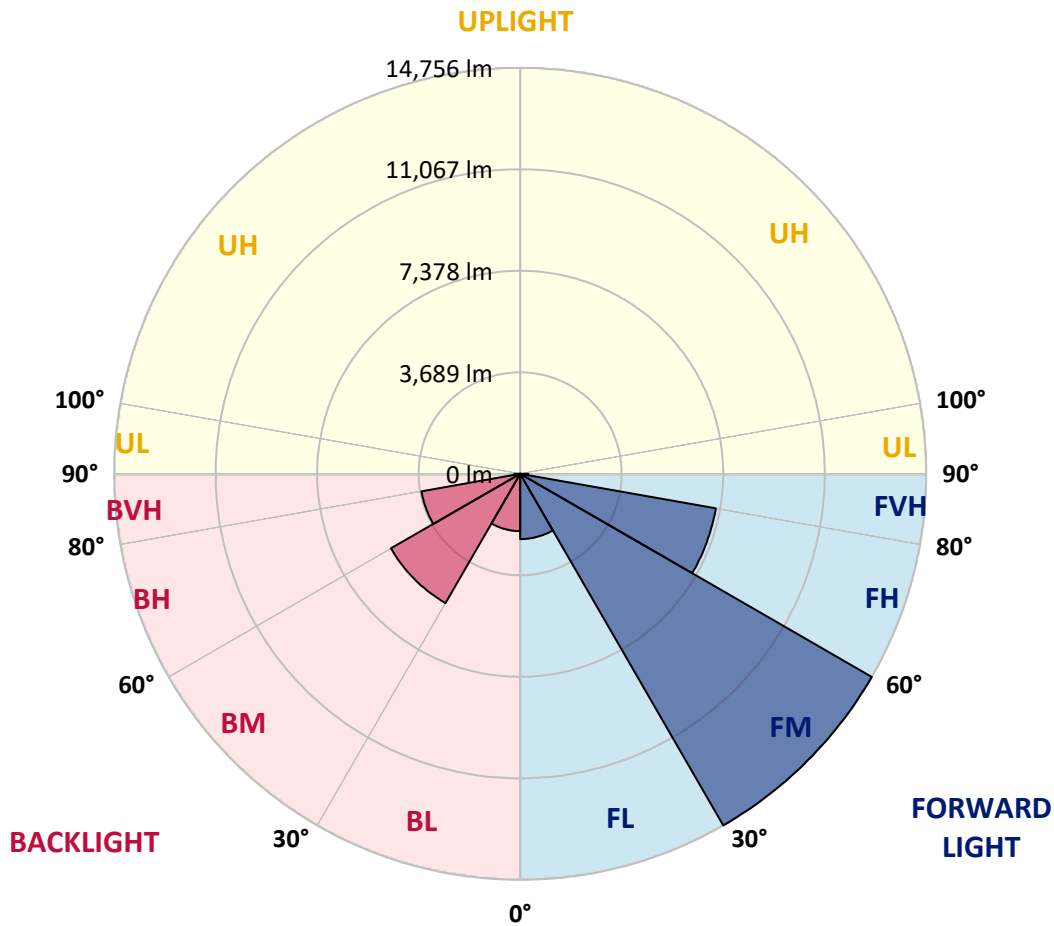


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2373.2	6.6			
FM (30°-60°)	14756.0	41.0			
FH (60°-80°)	7221.5	20.1			G3/7500
FVH (80°-90°)	292.6	0.8			G3/500
BL (0°-30°)	2083.6	5.8	B3/2500		
BM (30°-60°)	5423.9	15.1	B4/8500		
BH (60°-80°)	3644.7	10.1	B4/5000		G4/5000
BVH (80°-90°)	209.4	0.6			G2/225
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°	3967.6	3967.6	3967.6	3967.6	3967.6	3967.6	3967.6	3967.6	3967.6	3967.6
2.5°	3941.4	3930.2	3939.6	3939.6	3943.3	3941.4	3954.5	3958.3	3963.9	3975.1
5°	3902.2	3900.3	3917.2	3932.1	3947.0	3960.1	3976.9	4001.2	4005.0	4018.0
7.5°	3889.1	3877.9	3904.1	3922.8	3958.3	3990.0	4034.8	4075.9	4092.7	4098.4
10°	3990.0	3971.3	3995.6	4006.8	4036.7	4068.5	4120.8	4186.1	4204.8	4227.2
12.5°	4161.9	4141.3	4176.8	4193.6	4221.6	4249.7	4285.2	4348.7	4358.0	4399.1
15°	4397.2	4372.9	4395.4	4415.9	4462.6	4488.8	4524.3	4585.9	4585.9	4617.7
17.5°	4716.7	4684.9	4701.7	4709.2	4739.1	4778.3	4838.1	4892.2	4920.3	4909.1
20°	5193.0	5153.8	5153.8	5116.4	5105.2	5137.0	5215.4	5290.1	5320.0	5262.1
22.5°	5908.4	5852.4	5820.6	5693.6	5643.2	5646.9	5725.4	5816.9	5841.2	5738.4
25°	6818.1	6730.3	6687.4	6500.6	6386.6	6287.6	6349.3	6467.0	6500.6	6373.6
27.5°	7727.8	7733.4	7692.4	7468.2	7279.5	7098.3	7066.6	7189.9	7225.4	7081.5
30°	9003.7	8871.0	8792.6	8523.6	8254.6	8000.6	7869.8	7920.2	7929.6	7757.7
32.5°	10103.9	10070.3	9902.2	9666.8	9321.2	8923.4	8704.8	8624.5	8609.5	8364.8
35°	11357.3	11338.7	11161.2	10881.0	10507.4	9954.5	9560.3	9330.6	9311.9	8968.2
37.5°	12631.3	12631.3	12457.6	12151.2	11764.6	11073.4	10473.8	10109.5	10049.7	9601.4
40°	13647.5	13585.8	13617.6	13488.7	13046.0	12311.9	11488.1	10959.5	10879.1	10341.2
42.5°	14224.7	14204.1	14394.7	14538.5	14357.3	13770.8	12605.1	11880.4	11768.3	11155.6
45°	14353.6	14331.2	14671.1	15197.9	15452.0	15211.0	13819.3	12849.9	12713.5	12007.4
47.5°	14056.6	14011.7	14510.5	15341.7	16156.2	16580.2	15134.4	13901.5	13703.5	12836.8
50°	13163.7	13120.7	13875.4	14979.4	16393.4	17510.5	16561.5	15016.7	14714.1	13725.9
52.5°	11222.8	11243.4	12425.8	13942.6	16081.5	18089.5	17790.7	16191.7	15827.4	14635.6
55°	8742.2	8787.0	10240.3	11910.3	14833.6	18001.7	18629.4	17402.1	17039.7	15491.2
57.5°	6259.6	6457.6	7819.4	9472.5	12437.0	16610.1	18812.5	18552.8	18201.6	16425.2
60°	4057.3	4092.7	5493.7	7160.0	9470.7	14136.9	18440.7	19425.2	19150.6	17377.8
62.5°	2600.2	2624.5	3478.2	5008.1	6816.3	10458.8	17189.2	19804.4	19720.3	18007.4
65°	1910.9	1892.3	2336.8	3310.1	4591.5	6450.1	14758.9	19621.3	19787.5	18401.5
67.5°	1595.3	1569.1	1787.7	2292.0	3382.9	3663.1	10920.2	18431.4	19040.3	18356.7
70°	1453.3	1430.9	1563.5	1701.7	2639.5	2452.7	5504.9	16023.6	16961.3	17846.7
72.5°	1231.0	1191.8	1373.0	1511.2	2052.9	1881.1	2275.2	12308.1	13451.3	16212.2
75°	954.5	928.4	1083.4	1330.0	1543.0	1468.2	1438.3	7473.8	8721.6	12537.9
77.5°	756.5	721.0	863.0	1036.7	1387.9	1107.7	1047.9	3218.5	4455.1	8004.3
80°	569.7	538.0	655.7	820.0	1066.6	835.0	678.1	1313.2	1679.3	4055.4
82.5°	405.4	377.3	457.7	601.5	717.3	749.1	416.6	736.0	827.5	1563.5
85°	259.6	242.8	306.3	377.3	455.8	481.9	254.0	384.8	422.2	644.5
87.5°	142.0	115.8	164.4	175.6	211.1	192.4	121.4	140.1	151.3	233.5
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°
3967.6	0°	3967.6	3967.6	3967.6	3967.6	3967.6	3967.6	3967.6	3967.6	3967.6	3967.6
3975.1	2.5°	3982.5	3988.1	4006.8	4012.4	4025.5	4042.3	4053.5	4064.7	4064.7	4075.9
4034.8	5°	4036.7	4049.8	4089.0	4109.6	4143.2	4176.8	4197.4	4221.6	4236.6	4244.1
4130.1	7.5°	4141.3	4161.9	4217.9	4253.4	4311.3	4358.0	4389.8	4423.4	4430.9	4451.4
4262.7	10°	4283.3	4307.6	4371.1	4438.3	4507.4	4565.3	4595.2	4619.5	4628.9	4632.6
4432.7	12.5°	4445.8	4481.3	4563.5	4645.7	4718.5	4769.0	4776.4	4770.8	4744.7	4722.3
4641.9	15°	4645.7	4677.4	4769.0	4858.6	4929.6	4938.9	4892.2	4862.4	4830.6	4825.0
4875.4	17.5°	4884.8	4901.6	4985.6	5073.4	5079.0	5047.3	4978.2	4950.2	4920.3	4899.7
5179.9	20°	5163.1	5157.5	5217.3	5254.6	5215.4	5118.3	5013.7	4967.0	4937.1	4912.8
5553.5	22.5°	5495.6	5452.6	5445.2	5435.8	5331.2	5127.6	4985.6	4925.9	4879.2	4845.5
6074.7	25°	5979.4	5815.0	5701.1	5637.6	5402.2	5077.2	4896.0	4763.4	4675.6	4617.7
6711.7	27.5°	6584.6	6308.2	6020.5	5865.5	5402.2	4974.4	4679.3	4464.5	4320.6	4260.9
7328.1	30°	7161.8	6872.3	6448.3	6140.1	5389.1	4806.3	4330.0	4031.1	3863.0	3803.2
7854.9	32.5°	7655.0	7339.3	6902.2	6440.8	5357.4	4533.6	3896.6	3566.0	3403.5	3332.5
8376.0	35°	8112.6	7776.4	7358.0	6771.4	5273.3	4133.8	3420.3	3168.1	2986.9	2873.0
8906.5	37.5°	8581.5	8181.8	7789.5	7070.3	5122.0	3666.8	3054.2	2839.3	2626.4	2473.2
9470.7	40°	9091.5	8613.3	8250.9	7247.8	4873.6	3222.3	2770.2	2574.1	2348.1	2185.5
10120.7	42.5°	9687.4	9130.7	8764.6	7339.3	4533.6	2906.6	2585.3	2392.9	2179.9	2047.3
10817.5	45°	10309.4	9700.4	9233.4	7337.4	4154.4	2759.0	2525.5	2335.0	2099.6	1961.4
11532.9	47.5°	10961.3	10296.3	9638.8	7217.9	3825.6	2779.6	2491.9	2209.8	1950.2	1815.7
12255.8	50°	11615.1	10948.2	10031.1	6993.7	3685.5	2734.7	2366.7	2034.2	1727.9	1606.5
12933.9	52.5°	12263.3	11641.3	10369.2	6674.3	3543.6	2568.5	2206.1	1806.3	1636.4	1552.3
13634.4	55°	12915.2	12326.8	10737.2	6209.2	3188.6	2374.2	1937.1	1720.4	1563.5	1486.9
14320.0	57.5°	13569.0	13118.8	11086.5	5744.0	2742.2	2135.1	1789.5	1615.8	1490.7	1425.3
14893.4	60°	14249.0	14024.8	11447.0	5316.3	2301.4	1828.8	1681.2	1531.7	1404.7	1331.9
15444.5	62.5°	14949.5	15022.3	11729.1	4765.2	1896.0	1642.0	1584.0	1430.9	1307.6	1238.5
15900.3	65°	15655.6	15984.3	11914.0	4001.2	1537.3	1464.5	1479.4	1320.7	1195.5	1135.7
16234.6	67.5°	16187.9	16677.3	11861.7	3028.0	1260.9	1296.4	1348.7	1204.8	1087.2	1040.5
16180.5	70°	16247.7	16595.2	11346.1	2073.5	1055.4	1132.0	1203.0	1090.9	969.5	935.9
15418.3	72.5°	15452.0	15474.4	9909.6	1354.3	892.9	993.8	1049.8	975.1	857.4	823.8
13488.7	75°	13365.4	12797.5	7275.8	892.9	747.2	853.7	906.0	853.7	739.7	747.2
10092.7	77.5°	10126.3	9063.5	4417.8	635.1	623.9	717.3	788.3	750.9	653.8	734.1
5075.3	80°	5217.3	4903.5	1970.7	474.5	493.1	573.5	648.2	599.6	517.4	493.1
1133.9	82.5°	1195.5	1389.8	777.1	340.0	356.8	412.8	495.0	450.2	371.7	313.8
472.6	85°	418.4	457.7	343.7	213.0	209.2	257.8	336.2	300.7	252.2	201.7
199.9	87.5°	132.6	173.7	128.9	85.9	89.7	115.8	155.0	142.0	117.7	76.6
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>
3967.6
4075.9
4247.8
4443.9
4623.3
4722.3
4825.0
4901.6
4914.7
4856.8
4640.1
4290.8
3838.7
3368.0
2910.3
2514.3
2217.3
2073.5
1983.8
1834.4
1613.9
1552.3
1479.4
1414.1
1326.3
1236.6
1133.9
1042.3
937.7
821.9
721.0
646.3
450.2
310.1
213.0
80.3
0.0

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