

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: P941165

Luminaire Tested: **GALN-SB4C-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25861 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

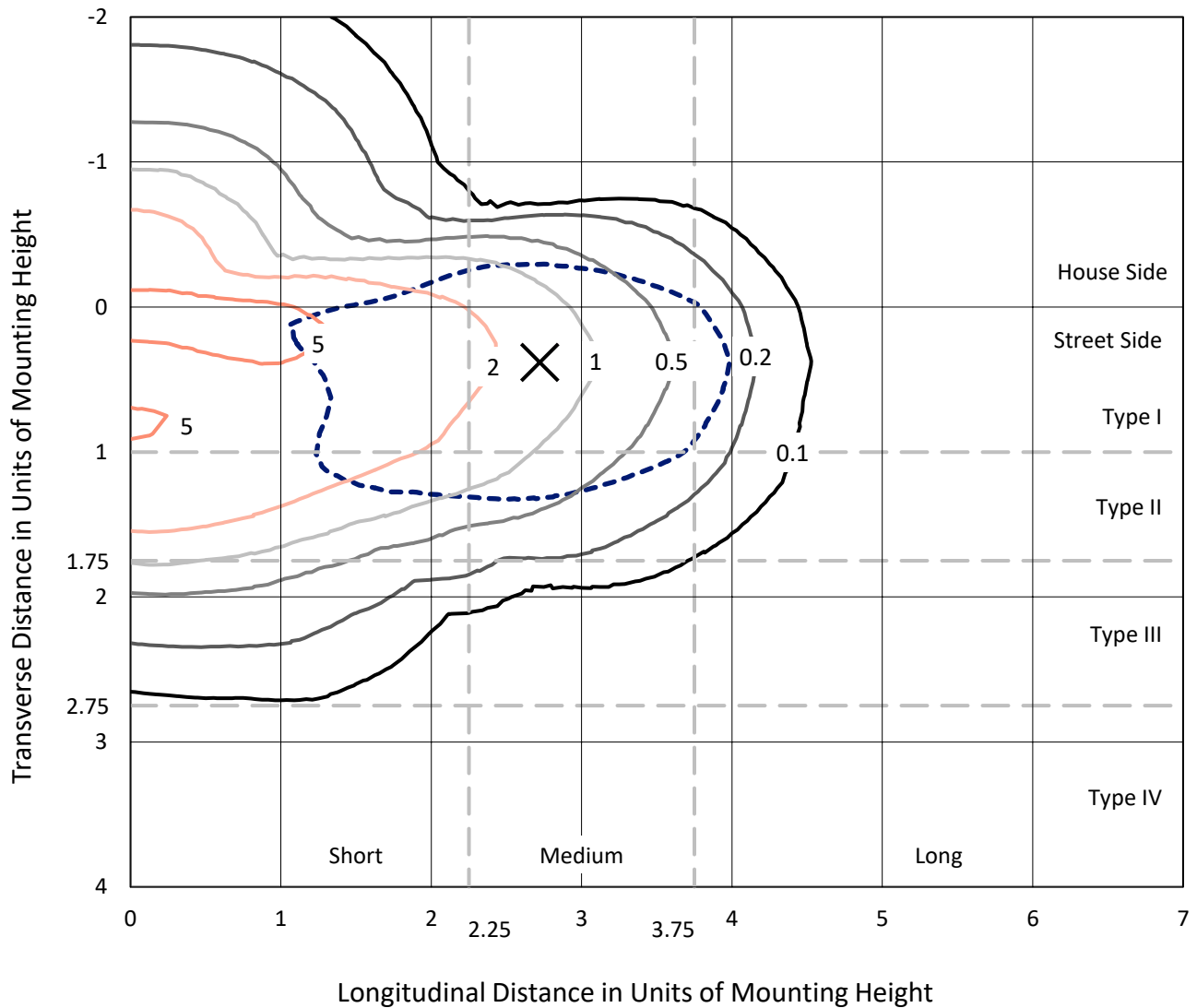
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

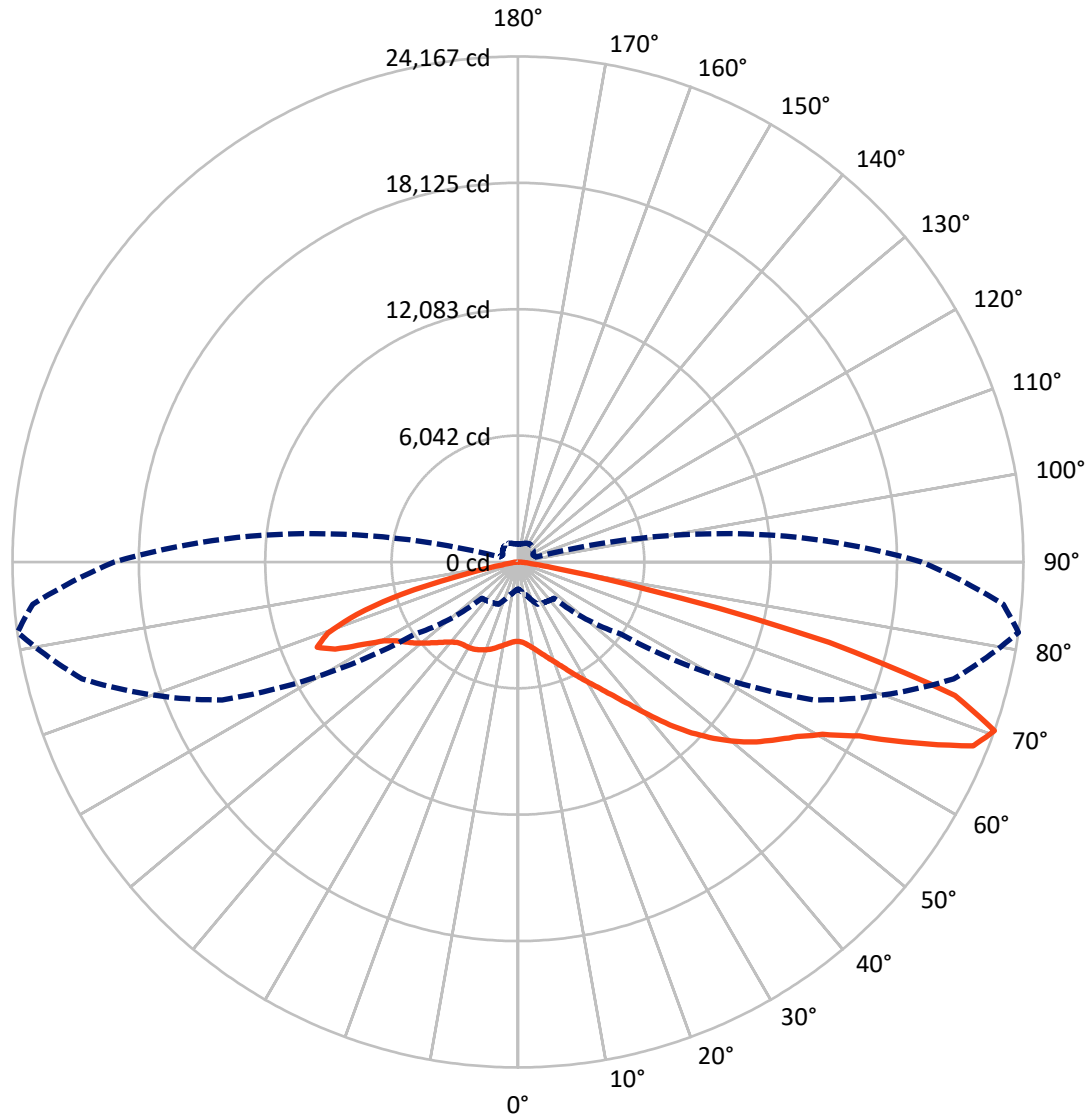
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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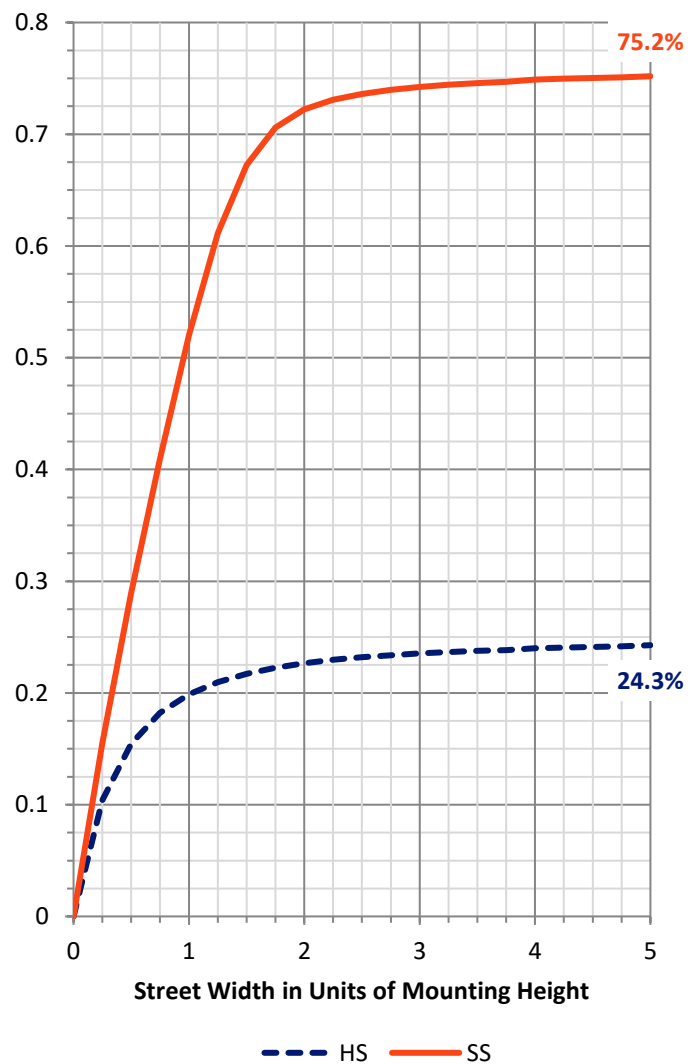
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6375.4	0.0	6375.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	19485.6	0.0	19485.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	25861.0	0.0	25861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.0	1.4
10°-20°	1028.5	4.0
20°-30°	1720.6	6.7
30°-40°	2688.0	10.4
40°-50°	4281.0	16.6
50°-60°	5957.6	23.0
60°-70°	6231.9	24.1
70°-80°	3257.1	12.6
80°-90°	338.2	1.3
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°	25861.0	100.0
0°-180°	25861.0	100.0

Coefficient of Utilization



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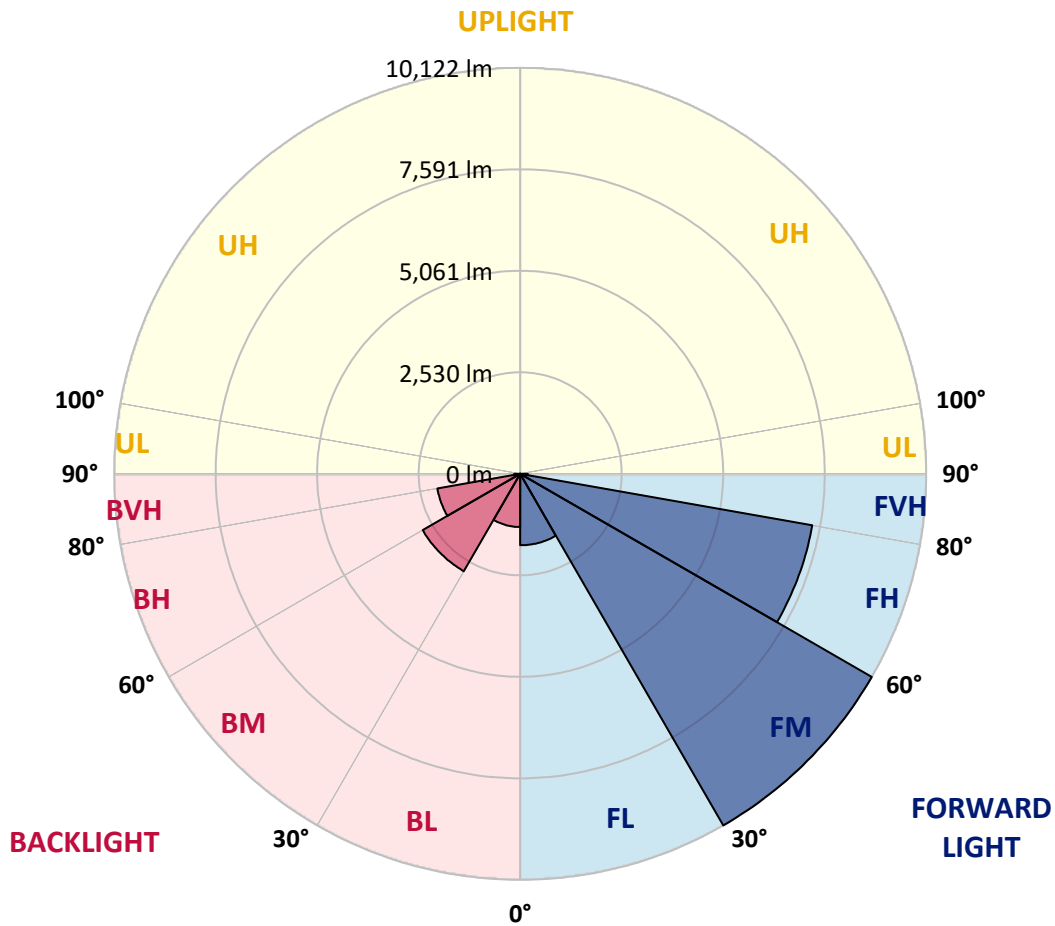
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1780.8	6.9			
FM (30°-60°)	10121.7	39.1			
FH (60°-80°)	7393.7	28.6			G3/7500
FVH (80°-90°)	189.3	0.7			G2/225
BL (0°-30°)	1326.3	5.1	B3/2500		
BM (30°-60°)	2804.9	10.8	B3/5000		
BH (60°-80°)	2095.3	8.1	B3/2500		G3/2500
BVH (80°-90°)	148.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3791.5	3791.5	3791.5	3791.5	3791.5	3791.5	3791.5	3791.5	3791.5	3791.5
2.5°	3882.1	3904.1	3897.2	3890.3	3890.3	3880.7	3879.4	3865.6	3854.7	3836.8
5°	3931.5	3954.8	3952.1	3957.6	3975.4	3979.5	3983.7	3975.4	3953.5	3931.5
7.5°	3887.6	3913.7	3921.9	3954.8	4009.7	4059.1	4096.2	4111.3	4090.7	4059.1
10°	3739.4	3768.2	3797.0	3875.3	3972.7	4089.3	4188.1	4247.1	4243.0	4212.8
12.5°	3438.9	3469.1	3530.8	3683.1	3861.5	4067.4	4251.3	4374.8	4417.3	4395.3
15°	3198.7	3224.8	3271.5	3427.9	3659.8	3972.7	4274.6	4514.7	4623.1	4610.8
17.5°	3191.9	3202.8	3231.7	3305.8	3484.2	3824.5	4249.9	4652.0	4859.2	4857.8
20°	3312.6	3316.7	3333.2	3348.3	3449.9	3712.0	4186.8	4765.8	5124.0	5124.0
22.5°	3480.0	3477.3	3493.8	3480.0	3529.4	3702.3	4147.0	4866.0	5419.0	5441.0
25°	3731.2	3717.4	3713.3	3681.8	3691.4	3791.5	4190.9	4979.9	5769.0	5814.3
27.5°	4066.0	4044.0	4028.9	3956.2	3931.5	3975.4	4325.4	5117.1	6158.7	6236.9
30°	4502.4	4462.6	4440.6	4314.4	4225.2	4232.0	4528.4	5299.7	6566.2	6692.5
32.5°	5097.9	5036.2	4977.2	4770.0	4606.7	4553.1	4790.5	5552.2	7008.1	7209.8
35°	5764.9	5715.5	5652.3	5332.6	5081.5	4958.0	5144.6	5904.8	7525.5	7845.2
37.5°	6407.1	6364.5	6394.7	5963.8	5640.0	5460.2	5608.4	6378.3	8163.6	8635.6
40°	7071.2	7038.3	7042.4	6630.7	6253.4	6051.7	6171.0	6972.4	8895.0	9575.6
42.5°	7793.0	7768.3	7686.0	7321.0	6897.0	6709.0	6818.7	7658.6	9679.9	10646.0
45°	8601.3	8586.2	8509.4	8090.8	7605.0	7393.7	7541.9	8416.1	10468.9	11653.2
47.5°	9299.8	9312.1	9302.5	8949.9	8446.2	8136.1	8313.1	9206.5	11203.1	12600.1
50°	9636.0	9700.5	9795.2	9685.4	9372.5	9056.9	9091.2	9969.4	11903.0	13487.9
52.5°	9460.3	9582.5	9840.5	10016.1	10136.9	10071.0	9979.1	10726.9	12561.6	14289.3
55°	8805.8	8977.3	9405.4	9829.5	10445.6	10924.5	11045.3	11566.8	13203.9	14994.7
57.5°	7613.3	7891.8	8276.1	9133.7	10171.2	11337.6	12288.6	12731.8	13884.5	15748.0
60°	5568.6	5941.9	6419.4	7695.6	9210.6	11116.7	13346.6	14521.2	14851.9	16723.7
62.5°	3563.8	3794.3	4233.4	5435.5	7176.9	9984.5	13670.4	16758.0	16491.8	18323.7
65°	2439.9	2588.1	2990.1	3665.3	4639.6	7432.1	12803.2	18434.9	19096.3	20859.7
67.5°	1773.0	1885.5	2228.5	2820.0	3023.1	4398.1	9935.1	18358.1	21628.1	23472.5
70°	1292.7	1372.3	1660.4	2228.5	2326.0	2446.7	6018.7	15605.3	21573.3	24166.8
72.5°	957.8	1012.7	1206.2	1729.0	1882.7	1652.2	2979.2	11341.7	18537.8	21858.7
75°	693.0	734.2	876.9	1322.9	1506.7	1258.4	1486.2	6628.0	12930.8	15376.1
77.5°	529.7	561.3	654.6	968.8	1206.2	944.1	922.2	3049.2	6131.2	6161.4
80°	425.4	446.0	496.8	682.0	924.9	706.7	601.0	1230.9	1937.6	1639.8
82.5°	312.9	347.2	419.9	478.9	661.4	487.2	366.4	621.6	736.9	634.0
85°	178.4	201.7	253.9	343.1	422.7	297.8	210.0	275.8	343.1	281.3
87.5°	63.1	82.3	89.2	134.5	183.9	123.5	81.0	79.6	112.5	83.7
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°
3791.5	0°	3791.5	3791.5	3791.5	3791.5	3791.5	3791.5	3791.5	3791.5	3791.5	3791.5
3832.7	2.5°	3819.0	3812.1	3784.7	3747.6	3709.2	3672.2	3659.8	3633.7	3615.9	3606.3
3921.9	5°	3895.8	3873.9	3809.4	3727.0	3640.6	3547.3	3481.4	3421.0	3377.1	3336.0
4044.0	7.5°	4005.6	3967.2	3856.0	3712.0	3558.3	3403.2	3287.9	3200.1	3141.1	3102.7
4186.8	10°	4133.2	4074.2	3904.1	3688.6	3451.2	3228.9	3093.1	3017.6	2980.5	2960.0
4350.1	12.5°	4280.1	4196.4	3953.5	3635.1	3287.9	3034.1	2940.7	2918.8	2920.2	2921.5
4555.9	15°	4461.2	4344.6	3993.3	3518.5	3075.2	2884.5	2868.0	2903.7	2940.7	2958.6
4789.2	17.5°	4665.7	4501.0	4000.1	3326.4	2866.6	2788.4	2840.6	2917.4	2973.7	2998.4
5049.9	20°	4885.2	4660.2	3950.7	3054.6	2695.1	2710.2	2803.5	2902.3	2964.1	2995.6
5347.7	22.5°	5136.4	4830.3	3832.7	2769.2	2555.1	2625.1	2734.9	2831.0	2895.5	2927.0
5697.6	25°	5423.2	5021.1	3647.5	2529.1	2434.4	2529.1	2638.9	2718.4	2770.6	2799.4
6088.7	27.5°	5741.5	5220.1	3400.5	2338.3	2328.7	2430.3	2520.8	2582.6	2610.0	2632.0
6504.5	30°	6061.3	5401.2	3101.3	2194.2	2236.8	2332.8	2397.3	2424.8	2433.0	2437.1
6968.3	32.5°	6407.1	5557.6	2787.1	2074.9	2149.0	2238.2	2276.6	2288.9	2250.5	2224.4
7530.9	35°	6825.6	5725.1	2479.7	1980.2	2062.5	2139.3	2151.7	2140.7	2095.4	2041.9
8236.3	37.5°	7342.9	5933.6	2234.0	1912.9	1981.5	2032.3	2017.2	2014.5	2018.6	1955.5
9084.3	40°	7976.9	6205.3	2054.3	1860.8	1915.7	1926.6	1884.1	1907.4	1928.0	1832.0
10014.7	42.5°	8680.9	6533.3	1940.4	1825.1	1860.8	1834.7	1768.8	1794.9	1792.2	1665.9
10949.2	45°	9398.6	6890.1	1900.6	1799.0	1810.0	1757.9	1685.1	1692.0	1634.4	1520.5
11845.3	47.5°	10112.2	7273.0	1925.3	1777.1	1746.9	1687.9	1631.6	1601.4	1516.3	1431.3
12704.4	50°	10812.0	7675.0	2015.8	1733.2	1660.4	1626.1	1585.0	1531.4	1440.9	1368.1
13516.7	52.5°	11461.1	8079.8	2117.4	1660.4	1552.0	1572.6	1546.5	1484.8	1395.6	1321.5
14285.2	55°	12075.9	8484.7	2157.2	1560.3	1450.5	1525.9	1510.9	1397.0	1289.9	1229.5
15089.3	57.5°	12745.5	8971.8	2113.3	1432.6	1368.1	1472.4	1414.8	1288.5	1226.8	1181.5
16136.4	60°	13673.2	9736.2	2018.6	1274.8	1289.9	1392.8	1294.0	1241.9	1174.7	1123.9
17706.2	62.5°	15214.2	11161.9	1866.3	1118.4	1198.0	1274.8	1236.4	1184.3	1115.6	1066.2
20390.4	65°	17492.2	13143.5	1579.5	996.3	1095.1	1159.6	1174.7	1122.5	1051.1	999.0
22742.4	67.5°	19413.3	14386.7	1195.2	894.7	989.4	1066.2	1108.8	1058.0	982.5	931.8
23292.7	70°	19307.7	13483.8	912.6	794.5	896.1	974.3	1029.2	989.4	908.4	860.4
21157.5	72.5°	17149.1	11280.0	738.3	693.0	801.4	878.2	944.1	913.9	831.6	784.9
15499.6	75°	12598.7	8007.1	590.1	590.1	683.4	778.1	850.8	831.6	756.1	723.2
6507.2	77.5°	5310.6	3359.3	462.5	489.9	568.1	668.3	758.9	765.7	699.9	741.0
1720.8	80°	1412.1	926.3	352.7	385.6	446.0	551.6	660.1	657.3	586.0	547.5
639.5	82.5°	537.9	365.0	251.1	271.7	322.5	422.7	522.8	539.3	467.9	404.8
251.1	85°	207.2	156.4	155.1	163.3	188.0	279.9	395.2	408.9	352.7	299.2
70.0	87.5°	53.5	46.7	57.6	54.9	86.5	149.6	226.4	234.7	215.4	124.9
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>
3791.5
3617.3
3352.4
3110.9
2965.4
2924.3
2957.2
3003.9
3003.9
2935.3
2807.6
2640.2
2446.7
2232.7
2044.7
1959.6
1834.7
1664.5
1524.6
1431.3
1362.7
1322.9
1224.1
1177.4
1121.1
1066.2
1001.7
933.1
864.5
784.9
713.6
672.4
509.1
404.8
308.8
178.4
0.0

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