

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: P956776

Luminaire Tested: **GALN-SB9B-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45786 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

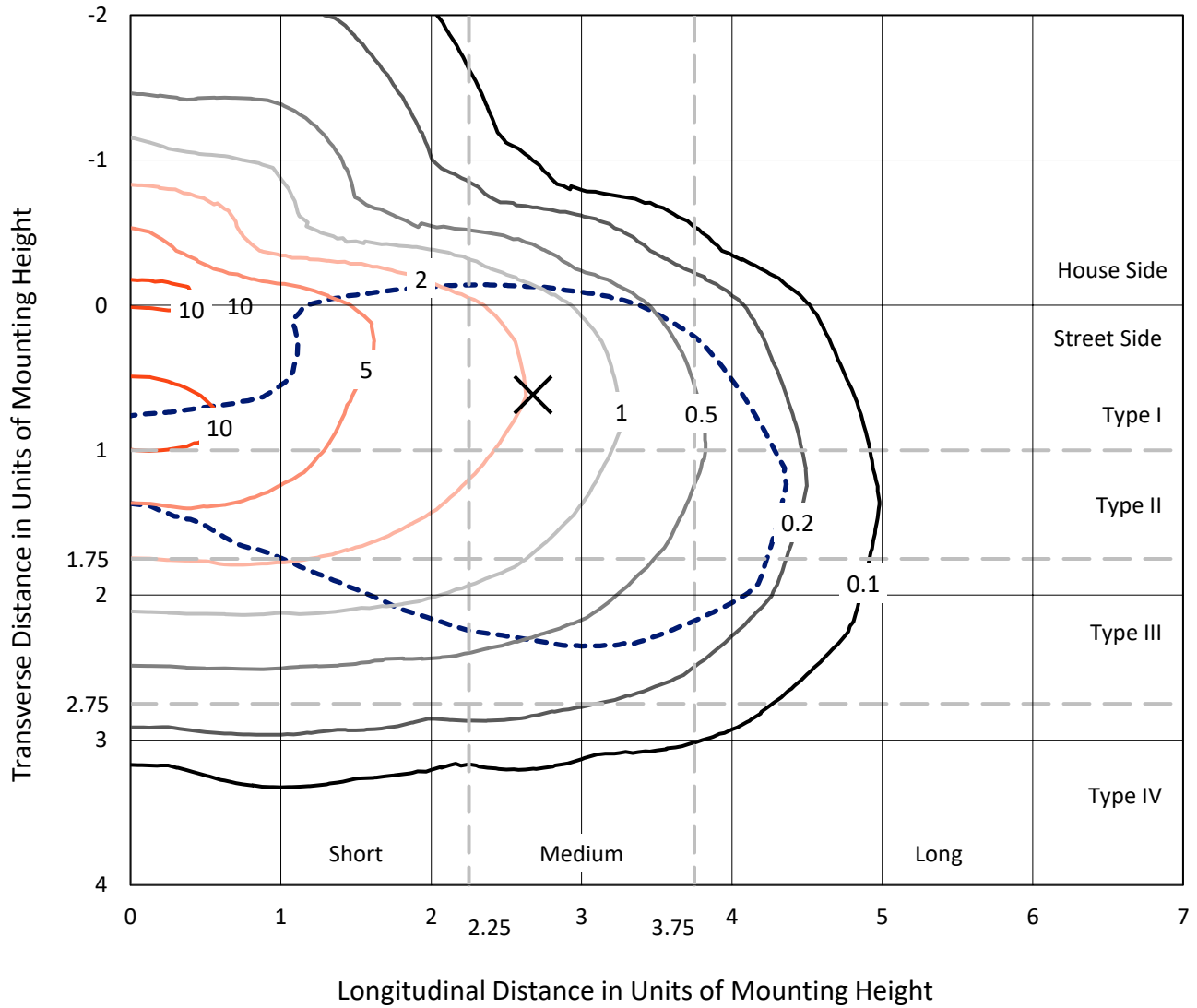
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

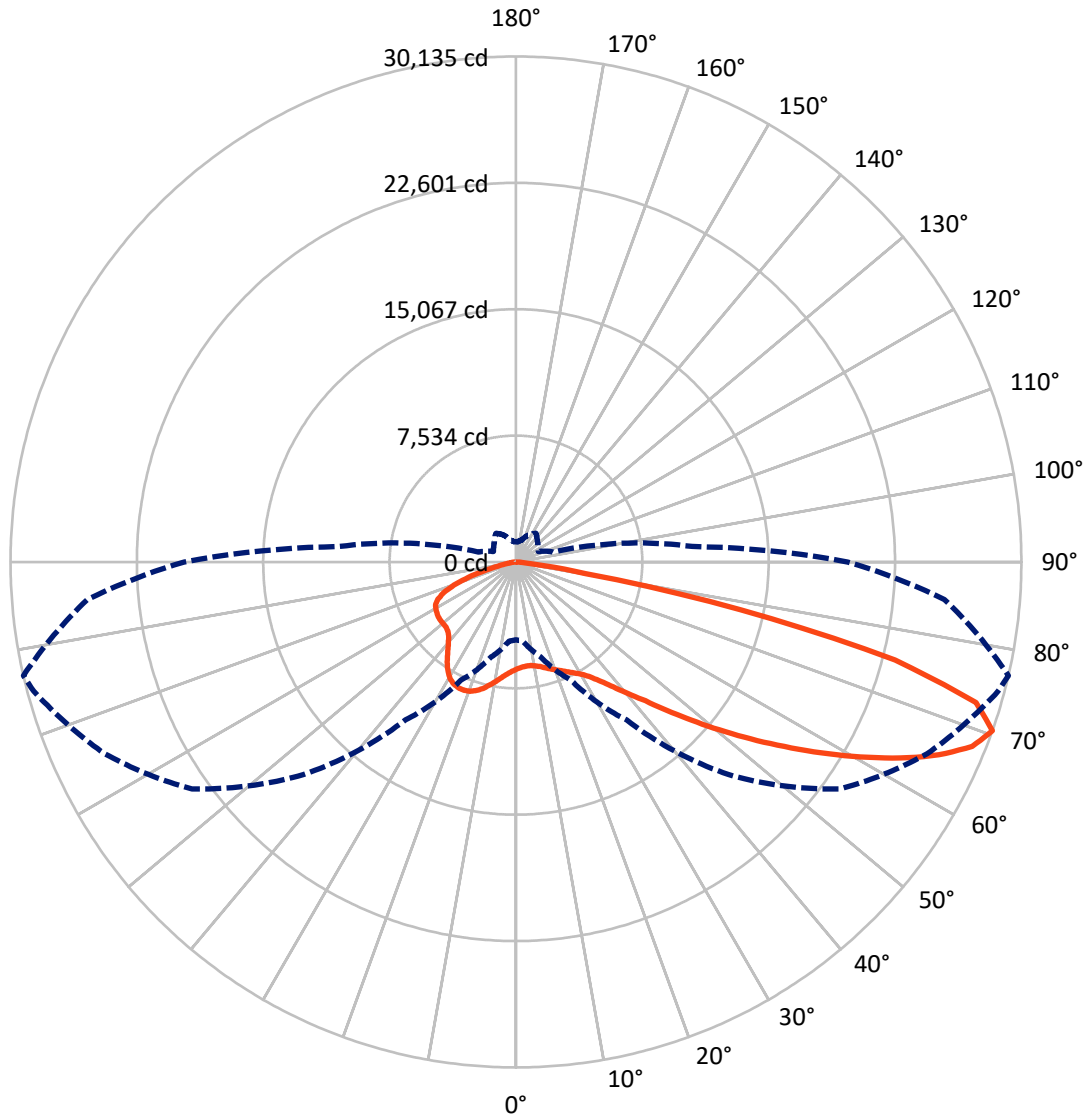
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10026.4	0.0	10026.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	35759.6	0.0	35759.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	45786.0	0.0	45786.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.2	1.3
10°-20°	1758.2	3.8
20°-30°	3006.8	6.6
30°-40°	4835.2	10.6
40°-50°	7549.1	16.5
50°-60°	10083.8	22.0
60°-70°	10747.7	23.5
70°-80°	6616.2	14.5
80°-90°	579.8	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°	45786.0	100.0
0°-180°	45786.0	100.0



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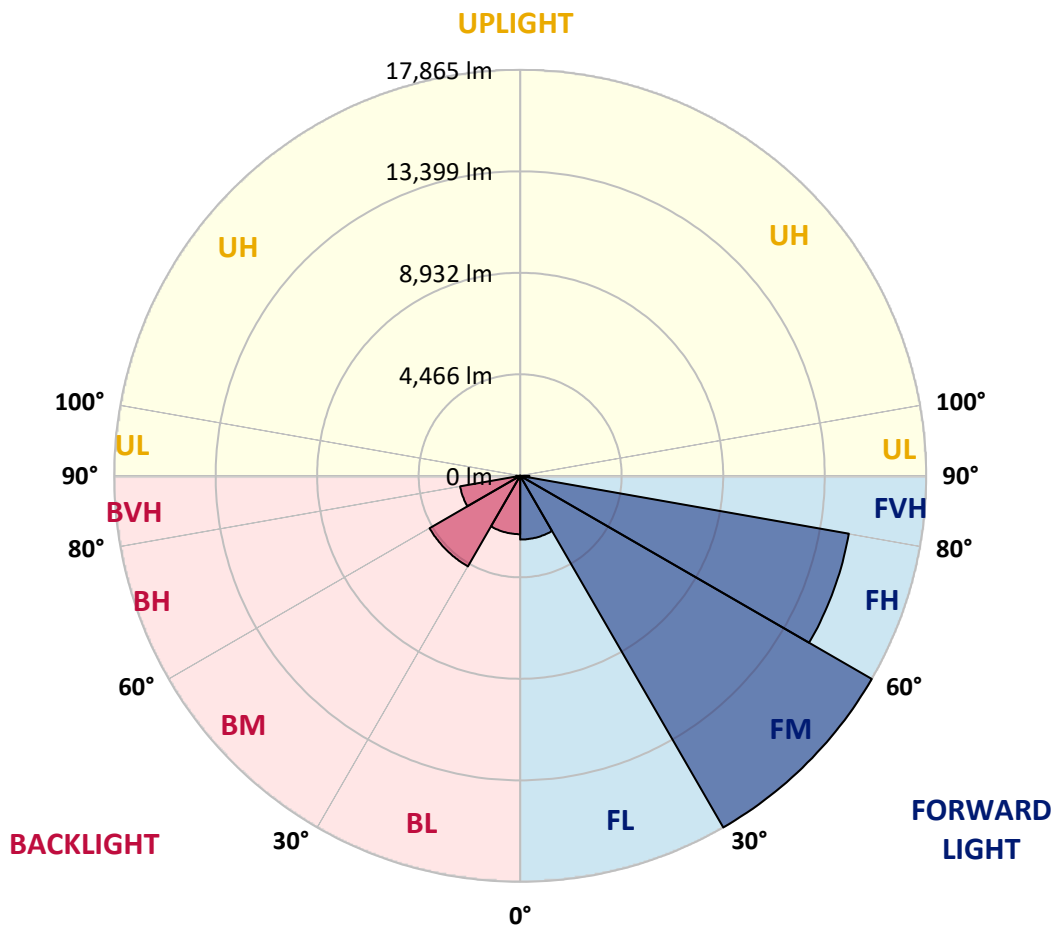
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2805.1	6.1			
FM (30°-60°)	17864.7	39.0			
FH (60°-80°)	14684.3	32.1			G5
FVH (80°-90°)	405.4	0.9			G3/500
BL (0°-30°)	2569.1	5.6	B4/5000		
BM (30°-60°)	4603.3	10.1	B3/5000		
BH (60°-80°)	2679.6	5.9	B4/5000		G4/5000
BVH (80°-90°)	174.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6387.6	6387.6	6387.6	6387.6	6387.6	6387.6	6387.6	6387.6	6387.6	6387.6
2.5°	5888.1	5885.8	5916.2	5925.6	5981.9	6021.8	6096.8	6176.5	6279.7	6291.4
5°	5548.1	5548.1	5583.3	5620.8	5693.5	5773.2	5888.1	6026.4	6204.7	6232.8
7.5°	5259.7	5278.4	5308.9	5381.6	5466.0	5580.9	5756.8	5953.8	6188.2	6232.8
10°	5027.5	5048.6	5086.1	5144.8	5271.4	5430.8	5660.6	5913.9	6228.1	6298.5
12.5°	4954.8	4975.9	4997.0	5041.6	5158.8	5346.4	5620.8	5932.7	6324.3	6394.6
15°	5123.7	5149.4	5133.0	5121.3	5182.3	5353.5	5639.5	6000.7	6443.8	6544.7
17.5°	5512.9	5522.3	5484.8	5374.6	5365.2	5456.6	5728.6	6094.4	6593.9	6704.1
20°	6141.3	6124.9	6047.6	5829.5	5705.2	5686.4	5881.1	6235.1	6748.7	6865.9
22.5°	6994.9	6976.1	6821.4	6476.7	6200.0	6017.1	6101.5	6418.0	6922.2	7053.5
25°	8059.5	8033.7	7806.2	7337.3	6908.1	6455.6	6401.6	6659.6	7135.6	7257.5
27.5°	9302.3	9281.2	9035.0	8415.9	7796.9	7055.9	6774.5	6943.3	7358.4	7496.7
30°	10638.9	10699.9	10263.7	9597.8	8814.6	7839.1	7276.3	7292.7	7646.8	7771.1
32.5°	12210.0	12315.5	11790.3	10946.1	9876.8	8690.3	7909.4	7780.4	8066.5	8169.7
35°	13767.0	13886.6	13450.5	12517.2	11286.1	9693.9	8570.7	8340.9	8624.6	8737.2
37.5°	15113.0	15272.5	15047.4	14236.0	12793.9	10903.9	9433.6	8999.8	9311.7	9452.4
40°	16175.3	16419.1	16402.7	15896.2	14571.3	12371.8	10528.7	9813.5	10165.2	10317.7
42.5°	17038.2	17249.2	17432.1	17406.3	16426.2	14039.0	11816.1	10871.1	11138.4	11314.2
45°	17633.8	17858.9	18252.9	18677.3	18210.7	15823.5	13291.0	12125.6	12369.5	12634.4
47.5°	18166.1	18421.7	18932.9	19605.9	19725.5	17615.0	14906.7	13586.5	13809.2	14083.6
50°	18213.0	18433.4	19226.0	20180.4	20801.8	19336.2	16641.9	15225.6	15434.3	15727.4
52.5°	17080.4	17427.5	18811.0	20164.0	21296.6	20776.0	18365.4	16930.3	17164.8	17516.6
55°	13258.2	13767.0	17593.9	19535.5	21120.7	21706.9	20004.5	18743.0	19043.1	19411.3
57.5°	11419.8	11642.5	13966.3	18391.2	20318.7	21948.5	21388.0	20574.3	21057.4	21460.7
60°	10263.7	10449.0	11823.1	16611.4	19263.5	21566.2	22457.3	22281.4	23116.2	23596.9
62.5°	9025.6	9201.5	10451.3	13870.2	17912.9	20930.8	23132.6	23857.2	25226.7	25751.9
65°	7796.9	7946.9	9145.2	11654.3	16196.4	20295.3	23482.0	25219.6	27180.0	27724.0
67.5°	6427.4	6551.7	7684.3	9832.3	14109.4	19425.3	23655.6	26291.3	28880.0	29346.7
70°	4638.3	4734.4	5904.5	7775.8	11490.1	17929.3	23585.2	27051.0	29761.7	30134.6
72.5°	2192.5	2279.3	3653.4	5048.6	8115.8	15016.9	22161.8	26448.4	28866.0	28680.7
75°	1170.1	1245.2	2098.7	2769.4	4286.5	10294.2	18135.6	22783.3	24239.4	23339.0
77.5°	792.6	851.2	1299.1	1662.5	1958.0	4886.8	11656.6	15774.3	15176.3	13689.6
80°	628.4	689.4	1064.6	1125.6	947.3	1765.7	4816.5	7302.1	5245.6	4195.1
82.5°	483.1	551.1	895.8	816.0	515.9	724.6	1402.3	2309.7	1343.6	1022.4
85°	295.5	368.2	703.5	520.6	290.8	330.6	476.0	642.5	410.4	342.4
87.5°	150.1	211.0	356.4	189.9	131.3	77.4	126.6	126.6	107.9	93.8
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°
6387.6	0°	6387.6	6387.6	6387.6	6387.6	6387.6	6387.6	6387.6	6387.6	6387.6	6387.6
6354.7	2.5°	6411.0	6457.9	6537.6	6612.7	6671.3	6727.6	6783.9	6814.3	6823.7	6861.2
6389.9	5°	6486.1	6572.8	6727.6	6873.0	6964.4	7020.7	7060.6	7084.0	7088.7	7100.4
6486.1	7.5°	6624.4	6762.8	6978.5	7123.9	7191.9	7187.2	7170.8	7112.1	7088.7	7067.6
6626.7	10°	6819.0	7001.9	7266.9	7367.7	7325.5	7213.0	7067.6	6896.4	6816.7	6739.3
6819.0	12.5°	7060.6	7292.7	7553.0	7548.3	7339.6	7051.2	6713.5	6450.9	6284.4	6164.8
7055.9	15°	7353.7	7621.0	7820.3	7660.9	7203.6	6685.4	6190.6	5848.2	5698.2	5566.8
7295.0	17.5°	7656.2	7942.2	8033.7	7625.7	6861.2	6143.7	5583.3	5313.6	5165.9	5095.5
7553.0	20°	7951.6	8235.4	8160.3	7424.0	6340.7	5529.3	5029.9	4882.1	4851.6	4868.1
7803.9	22.5°	8263.5	8516.8	8186.1	7034.8	5677.1	4900.9	4626.5	4631.2	4699.2	4748.5
8066.5	25°	8582.4	8753.6	8118.1	6472.0	4964.2	4438.9	4370.9	4446.0	4579.6	4675.8
8362.0	27.5°	8889.6	8964.6	7970.4	5775.5	4352.2	4108.3	4120.0	4274.8	4476.5	4610.1
8720.8	30°	9236.6	9152.2	7686.7	4992.3	3927.7	3824.6	3923.1	4103.6	4305.3	4424.9
9173.3	32.5°	9628.2	9314.0	7236.4	4267.8	3627.6	3597.1	3758.9	3876.2	3965.3	4000.4
9773.6	35°	10116.0	9541.5	6659.6	3758.9	3357.9	3430.6	3585.4	3526.8	3491.6	3472.8
10580.3	37.5°	10749.1	9848.7	5984.2	3428.3	3139.8	3311.0	3374.3	3191.4	3053.1	2985.1
11558.1	40°	11511.2	10298.9	5334.7	3172.7	3001.5	3207.9	3097.6	2877.2	2701.3	2605.2
12657.9	42.5°	12357.7	10770.2	4788.3	2980.4	2924.1	3123.4	2893.6	2631.0	2347.3	2316.8
13968.7	45°	13246.5	11255.6	4415.5	2832.7	2886.6	3050.7	2776.4	2352.0	2150.3	2274.6
15284.2	47.5°	14135.2	11701.2	4190.4	2722.5	2867.8	2968.7	2673.2	2197.2	2054.2	2234.7
16693.5	50°	15124.7	12099.8	4089.5	2642.7	2846.7	2935.8	2518.4	2157.3	1953.3	2072.9
18152.0	52.5°	16107.3	12409.3	4014.5	2563.0	2816.3	2910.0	2443.4	2110.4	1831.4	1838.4
19620.0	55°	17087.4	12611.0	3932.4	2457.5	2748.2	2853.8	2436.4	2058.8	1739.9	1707.1
21172.3	57.5°	18133.3	12725.9	3831.6	2340.2	2631.0	2710.7	2429.3	2019.0	1711.8	1657.9
22759.8	60°	19197.9	12894.7	3700.3	2197.2	2473.9	2539.5	2412.9	2004.9	1695.4	1603.9
24255.9	62.5°	20152.3	12953.3	3543.2	2061.2	2272.2	2370.7	2377.7	1993.2	1650.8	1493.7
25498.7	65°	20778.3	12700.1	3268.8	1906.4	2054.2	2197.2	2309.7	1953.3	1571.1	1414.0
26113.0	67.5°	20752.6	11977.9	2839.7	1707.1	1843.1	2004.9	2211.3	1885.3	1475.0	1315.5
25648.7	70°	19786.4	10552.1	2295.7	1475.0	1611.0	1798.6	2084.6	1784.5	1360.1	1207.6
22806.7	72.5°	16970.2	8258.8	1667.2	1202.9	1341.3	1585.2	1920.5	1662.5	1242.8	1111.5
16855.3	75°	12123.2	5226.8	1130.3	923.9	1043.5	1343.6	1716.5	1519.5	1134.9	1116.2
8441.7	77.5°	6192.9	2497.3	748.0	675.3	726.9	1059.9	1442.1	1357.7	1151.4	921.6
2401.2	80°	2014.3	921.6	471.3	459.6	483.1	705.8	1116.2	1113.8	872.3	626.1
581.5	82.5°	642.5	396.3	307.2	295.5	283.7	443.2	778.5	881.7	588.6	396.3
208.7	85°	255.6	236.8	180.6	166.5	119.6	208.7	408.0	586.2	438.5	286.1
53.9	87.5°	93.8	93.8	49.2	35.2	25.8	70.3	110.2	175.9	250.9	147.7
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>
6387.6
6882.3
7119.2
7072.3
6715.9
6136.7
5552.8
5116.6
4861.0
4760.2
4701.6
4642.9
4453.0
4019.2
3491.6
3001.5
2612.2
2347.3
2340.2
2319.1
2162.0
1887.7
1730.6
1664.9
1611.0
1493.7
1414.0
1322.5
1221.7
1104.5
1052.9
820.7
553.4
393.9
293.1
145.4
0.0

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