

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: P956503

Luminaire Tested: **GALN-SB9A-850-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956503  
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-SB9A-850-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

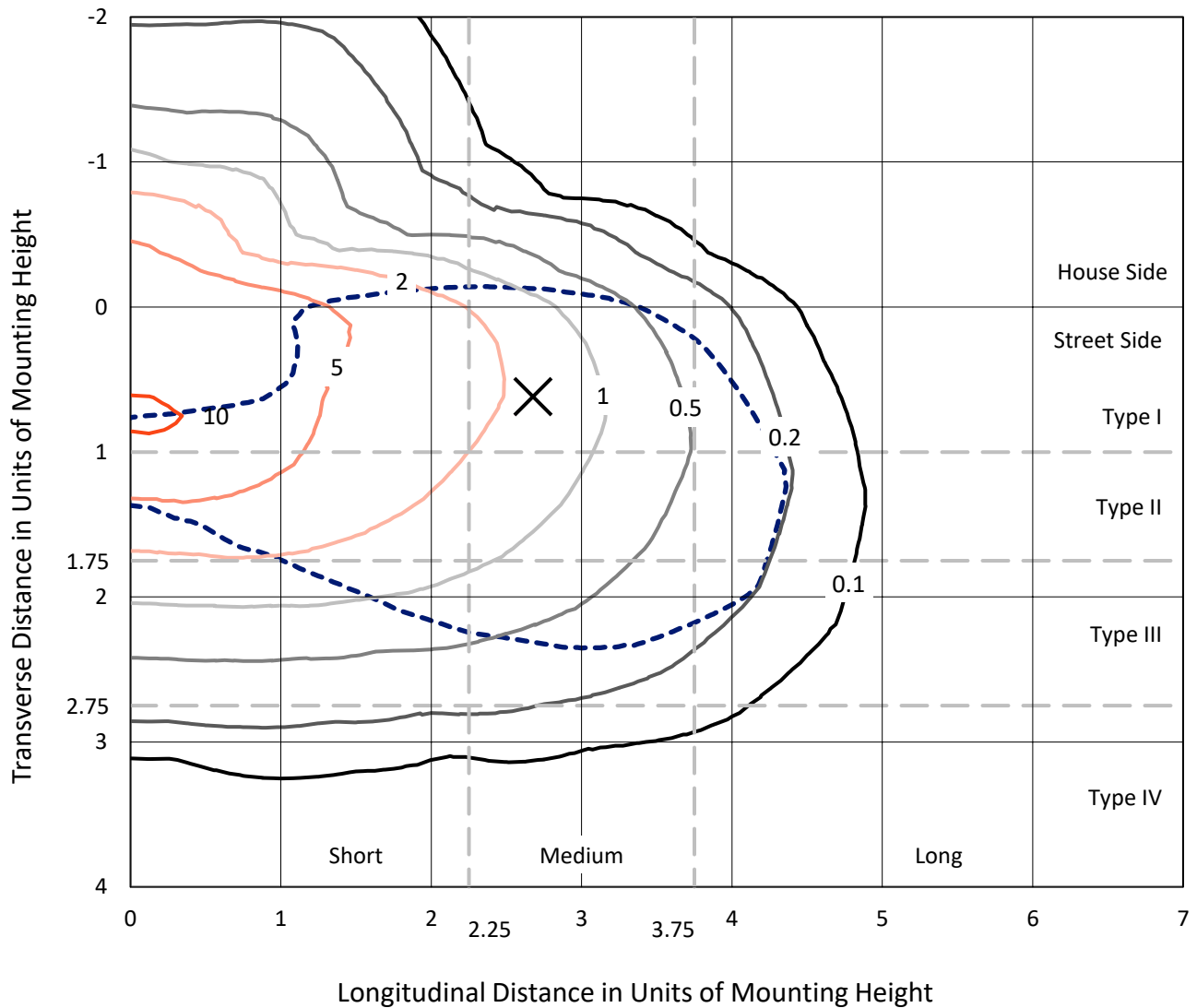
Lumens per Lamp: N/A  
Luminaire Lumens: 40121 lumens  
Efficiency: N/A  
Efficacy: 157.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

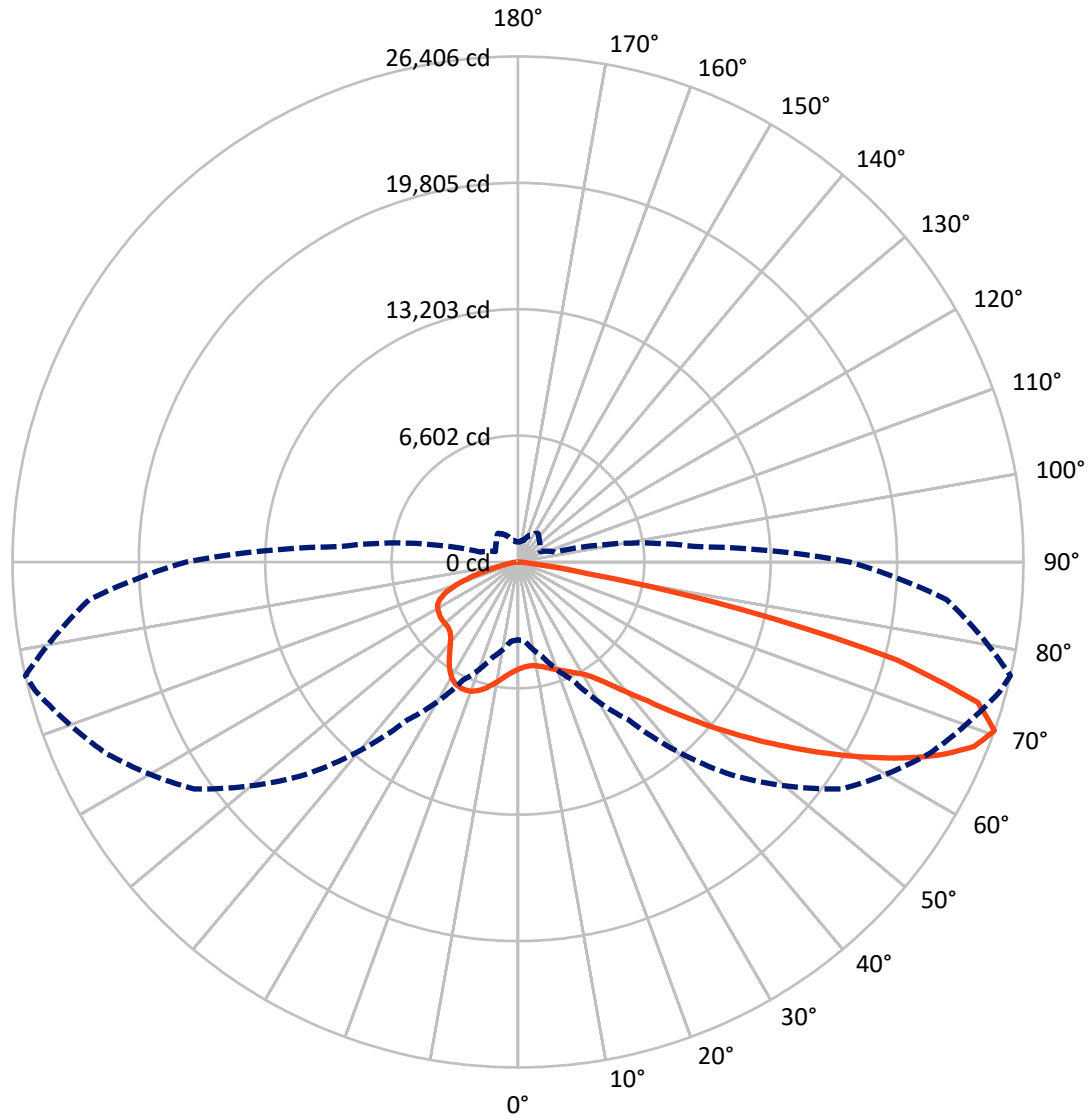
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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
<b>House Side</b>	Lumens	8785.9	0.0	8785.9
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	31335.1	0.0	31335.1
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	40121.0	0.0	40121.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	533.8	1.3
10°-20°	1540.7	3.8
20°-30°	2634.8	6.6
30°-40°	4237.0	10.6
40°-50°	6615.0	16.5
50°-60°	8836.1	22.0
60°-70°	9417.9	23.5
70°-80°	5797.6	14.5
80°-90°	508.0	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°	40121.0	100.0
0°-180°	40121.0	100.0



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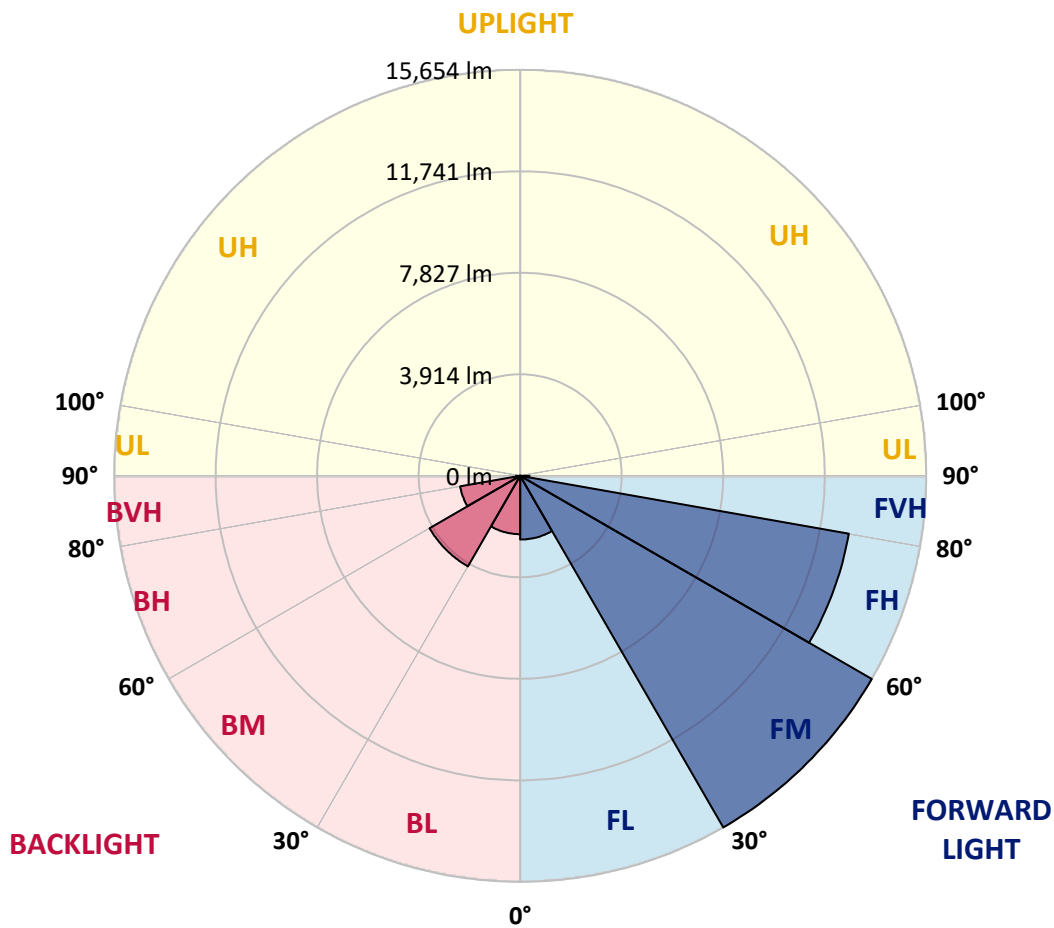
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2458.1	6.1			
FM (30°-60°)	15654.3	39.0			
FH (60°-80°)	12867.5	32.1			G5
FVH (80°-90°)	355.2	0.9			G3/500
BL (0°-30°)	2251.2	5.6	B3/2500		
BM (30°-60°)	4033.8	10.1	B3/5000		
BH (60°-80°)	2348.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	152.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2
2.5°	5159.6	5157.5	5184.2	5192.5	5241.8	5276.7	5342.5	5412.3	5502.7	5513.0
5°	4861.6	4861.6	4892.5	4925.3	4989.0	5058.9	5159.6	5280.8	5437.0	5461.6
7.5°	4608.9	4625.3	4652.0	4715.7	4789.7	4890.4	5044.5	5217.1	5422.6	5461.6
10°	4405.5	4424.0	4456.8	4508.2	4619.2	4758.9	4960.3	5182.2	5457.5	5519.2
12.5°	4341.8	4360.3	4378.8	4417.8	4520.5	4684.9	4925.3	5198.6	5541.8	5603.4
15°	4489.7	4512.3	4497.9	4487.7	4541.1	4691.1	4941.8	5258.2	5646.6	5734.9
17.5°	4830.8	4839.0	4806.2	4709.6	4701.4	4781.5	5019.8	5340.4	5778.1	5874.6
20°	5381.5	5367.1	5299.3	5108.2	4999.3	4982.9	5153.4	5463.7	5913.7	6016.4
22.5°	6129.4	6113.0	5977.4	5675.3	5432.9	5272.6	5346.6	5624.0	6065.7	6180.8
25°	7062.3	7039.7	6840.4	6429.4	6053.4	5656.8	5609.6	5835.6	6252.7	6359.6
27.5°	8151.3	8132.9	7917.1	7374.6	6832.2	6182.9	5936.3	6084.2	6447.9	6569.2
30°	9322.6	9376.0	8993.8	8410.3	7724.0	6869.2	6376.0	6390.4	6700.7	6809.6
32.5°	10699.3	10791.8	10331.5	9591.8	8654.8	7615.0	6930.8	6817.8	7068.5	7158.9
35°	12063.7	12168.5	11786.3	10968.5	9889.7	8494.5	7510.3	7308.9	7557.5	7656.1
37.5°	13243.1	13382.8	13185.6	12474.6	11210.9	9554.8	8266.4	7886.3	8159.6	8282.9
40°	14173.9	14387.6	14373.2	13929.4	12768.5	10841.1	9226.0	8599.3	8907.5	9041.1
42.5°	14930.1	15115.0	15275.3	15252.7	14393.8	12302.0	10354.1	9526.0	9760.2	9914.4
45°	15452.0	15649.3	15994.5	16366.4	15957.5	13865.7	11646.5	10625.3	10839.0	11071.2
47.5°	15918.5	16142.4	16590.4	17180.1	17284.9	15435.6	13062.3	11905.4	12100.7	12341.1
50°	15959.5	16152.7	16847.2	17683.5	18228.0	16943.8	14582.8	13341.7	13524.6	13781.5
52.5°	14967.1	15271.2	16483.5	17669.1	18661.6	18205.4	16093.1	14835.6	15041.1	15349.3
55°	11617.8	12063.7	15417.1	17118.4	18507.5	19021.2	17529.4	16423.9	16686.9	17009.5
57.5°	10006.8	10202.0	12238.3	16115.7	17804.7	19232.8	18741.7	18028.7	18452.0	18805.4
60°	8993.8	9156.1	10360.2	14556.1	16880.1	18897.9	19678.7	19524.6	20256.1	20677.3
62.5°	7908.9	8063.0	9158.2	12154.1	15696.5	18341.0	20270.5	20905.4	22105.4	22565.7
65°	6832.2	6963.7	8013.7	10212.3	14192.4	17784.2	20576.7	22099.3	23817.1	24293.8
67.5°	5632.2	5741.1	6733.5	8615.7	12363.7	17021.9	20728.7	23038.3	25306.8	25715.7
70°	4064.4	4148.6	5174.0	6813.7	10068.5	15710.9	20667.1	23704.0	26079.4	26406.1
72.5°	1921.2	1997.3	3201.4	4424.0	7111.6	13158.9	19419.8	23176.0	25294.5	25132.1
75°	1025.3	1091.1	1839.0	2426.7	3756.2	9020.5	15891.7	19964.3	21240.4	20451.3
77.5°	694.5	745.9	1138.4	1456.8	1715.7	4282.2	10214.4	13822.6	13298.6	11995.9
80°	550.7	604.1	932.9	986.3	830.1	1547.3	4220.5	6398.6	4596.6	3676.0
82.5°	423.3	482.9	784.9	715.1	452.1	634.9	1228.8	2024.0	1177.4	895.9
85°	258.9	322.6	616.4	456.2	254.8	289.7	417.1	563.0	359.6	300.0
87.5°	131.5	184.9	312.3	166.4	115.1	67.8	111.0	111.0	94.5	82.2
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°
5597.2	0°	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2
5568.5	2.5°	5617.8	5658.9	5728.8	5794.5	5845.9	5895.2	5944.5	5971.2	5979.4	6012.3
5599.3	5°	5683.5	5759.6	5895.2	6022.6	6102.7	6152.0	6187.0	6207.5	6211.6	6221.9
5683.5	7.5°	5804.8	5926.0	6115.1	6242.4	6302.0	6297.9	6283.5	6232.2	6211.6	6193.1
5806.8	10°	5975.3	6135.6	6367.8	6456.1	6419.2	6320.5	6193.1	6043.1	5973.3	5905.5
5975.3	12.5°	6187.0	6390.4	6618.5	6614.4	6431.5	6178.8	5882.9	5652.7	5506.8	5402.0
6182.9	15°	6443.8	6678.1	6852.7	6713.0	6312.3	5858.2	5424.6	5124.6	4993.1	4878.1
6392.4	17.5°	6708.9	6959.6	7039.7	6682.2	6012.3	5383.5	4892.5	4656.2	4526.7	4465.1
6618.5	20°	6967.8	7216.4	7150.7	6505.5	5556.1	4845.2	4407.5	4278.1	4251.4	4265.7
6838.3	22.5°	7241.1	7463.0	7173.3	6164.4	4974.6	4294.5	4054.1	4058.2	4117.8	4160.9
7068.5	25°	7520.5	7670.5	7113.7	5671.2	4350.0	3889.7	3830.1	3895.9	4013.0	4097.2
7327.4	27.5°	7789.7	7855.5	6984.2	5060.9	3813.7	3600.0	3610.3	3745.9	3922.6	4039.7
7641.8	30°	8093.8	8019.8	6735.6	4374.6	3441.8	3351.4	3437.7	3595.9	3772.6	3877.4
8038.3	32.5°	8437.0	8161.6	6341.1	3739.7	3178.8	3152.0	3293.8	3396.6	3474.6	3505.5
8564.4	35°	8864.4	8360.9	5835.6	3293.8	2942.5	3006.2	3141.8	3090.4	3059.6	3043.1
9271.2	37.5°	9419.2	8630.1	5243.8	3004.1	2751.4	2901.4	2956.8	2796.6	2675.3	2615.7
10128.1	40°	10087.0	9024.6	4674.6	2780.1	2630.1	2811.0	2714.4	2521.2	2367.1	2282.9
11091.8	42.5°	10828.7	9437.6	4195.9	2611.6	2562.3	2737.0	2535.6	2305.5	2056.8	2030.1
12240.4	45°	11607.5	9863.0	3869.2	2482.2	2529.4	2673.3	2432.9	2061.0	1884.2	1993.1
13393.1	47.5°	12386.3	10253.4	3671.9	2385.6	2513.0	2601.4	2342.5	1925.3	1800.0	1958.2
14628.0	50°	13253.4	10602.7	3583.6	2315.7	2494.5	2572.6	2206.8	1890.4	1711.6	1816.4
15906.1	52.5°	14114.3	10873.9	3517.8	2245.9	2467.8	2550.0	2141.1	1849.3	1604.8	1611.0
17192.4	55°	14973.2	11050.7	3445.9	2153.4	2408.2	2500.7	2134.9	1804.1	1524.7	1495.9
18552.7	57.5°	15889.7	11151.3	3357.5	2050.7	2305.5	2375.3	2128.8	1769.2	1500.0	1452.7
19943.8	60°	16822.6	11299.3	3242.5	1925.3	2167.8	2225.3	2114.4	1756.8	1485.6	1405.5
21254.7	62.5°	17658.9	11350.7	3104.8	1806.2	1991.1	2077.4	2083.6	1746.6	1446.6	1308.9
22343.8	65°	18207.5	11128.7	2864.4	1670.5	1800.0	1925.3	2024.0	1711.6	1376.7	1239.0
22882.1	67.5°	18184.9	10495.9	2488.3	1495.9	1615.1	1756.8	1937.7	1652.1	1292.5	1152.7
22475.3	70°	17338.3	9246.6	2011.6	1292.5	1411.6	1576.0	1826.7	1563.7	1191.8	1058.2
19984.9	72.5°	14870.5	7237.0	1461.0	1054.1	1175.3	1389.0	1682.9	1456.8	1089.0	974.0
14769.8	75°	10623.3	4580.1	990.4	809.6	914.4	1177.4	1504.1	1331.5	994.5	978.1
7397.2	77.5°	5426.7	2188.4	655.5	591.8	637.0	928.8	1263.7	1189.7	1008.9	807.5
2104.1	80°	1765.1	807.5	413.0	402.7	423.3	618.5	978.1	976.0	764.4	548.6
509.6	82.5°	563.0	347.3	269.2	258.9	248.6	388.4	682.2	772.6	515.8	347.3
182.9	85°	224.0	207.5	158.2	145.9	104.8	182.9	357.5	513.7	384.2	250.7
47.3	87.5°	82.2	82.2	43.2	30.8	22.6	61.6	96.6	154.1	219.9	129.5
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>
5597.2
6030.8
6238.3
6197.2
5884.9
5377.4
4865.7
4483.5
4259.6
4171.2
4119.9
4068.5
3902.0
3521.9
3059.6
2630.1
2289.0
2056.8
2050.7
2032.2
1894.5
1654.1
1516.4
1458.9
1411.6
1308.9
1239.0
1158.9
1070.5
967.8
922.6
719.2
484.9
345.2
256.8
127.4
0.0

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