

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: P954655

Luminaire Tested: **GALN-SB7D-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954655  
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-SB7D-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

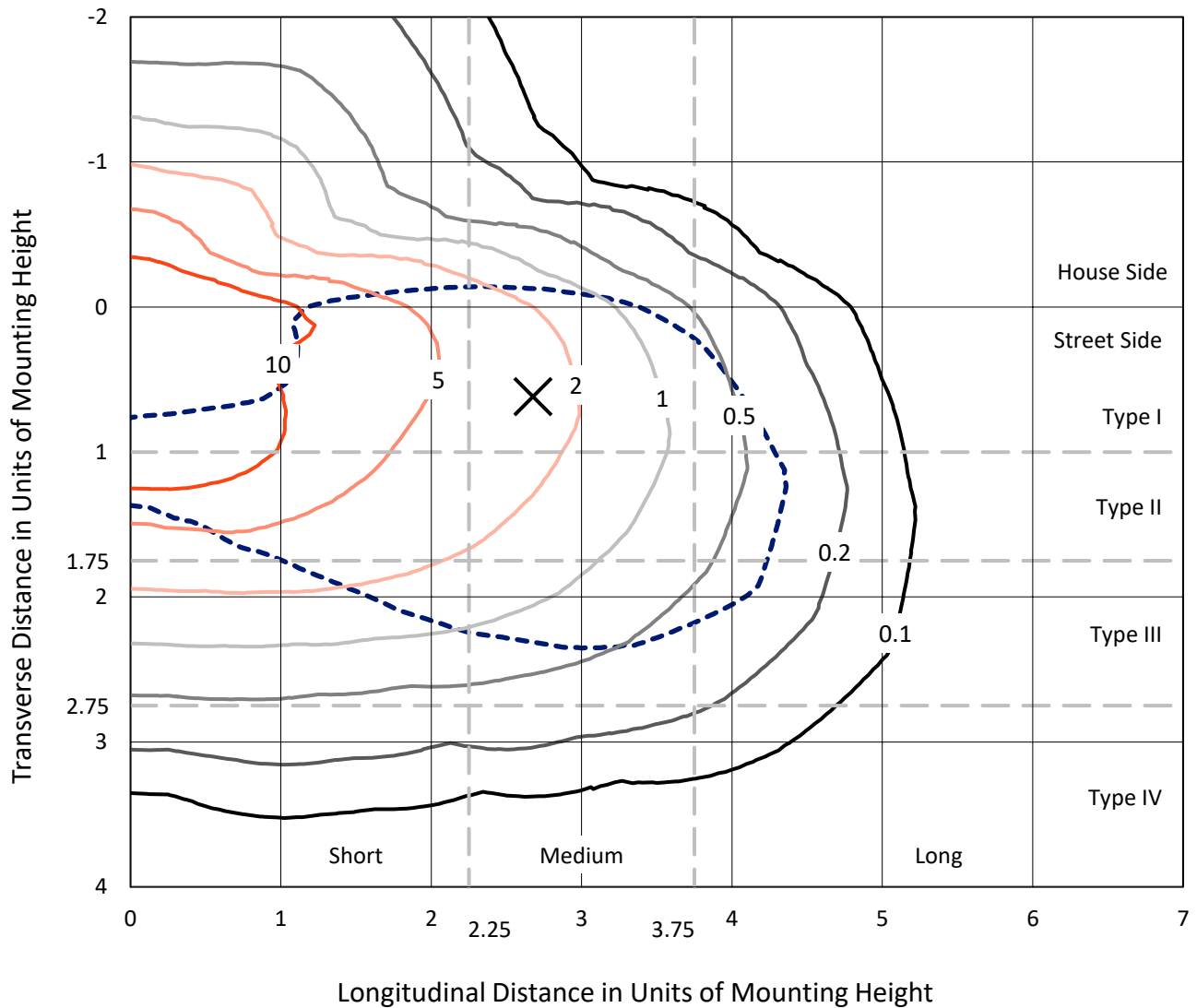
Lumens per Lamp: N/A  
Luminaire Lumens: 66756 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

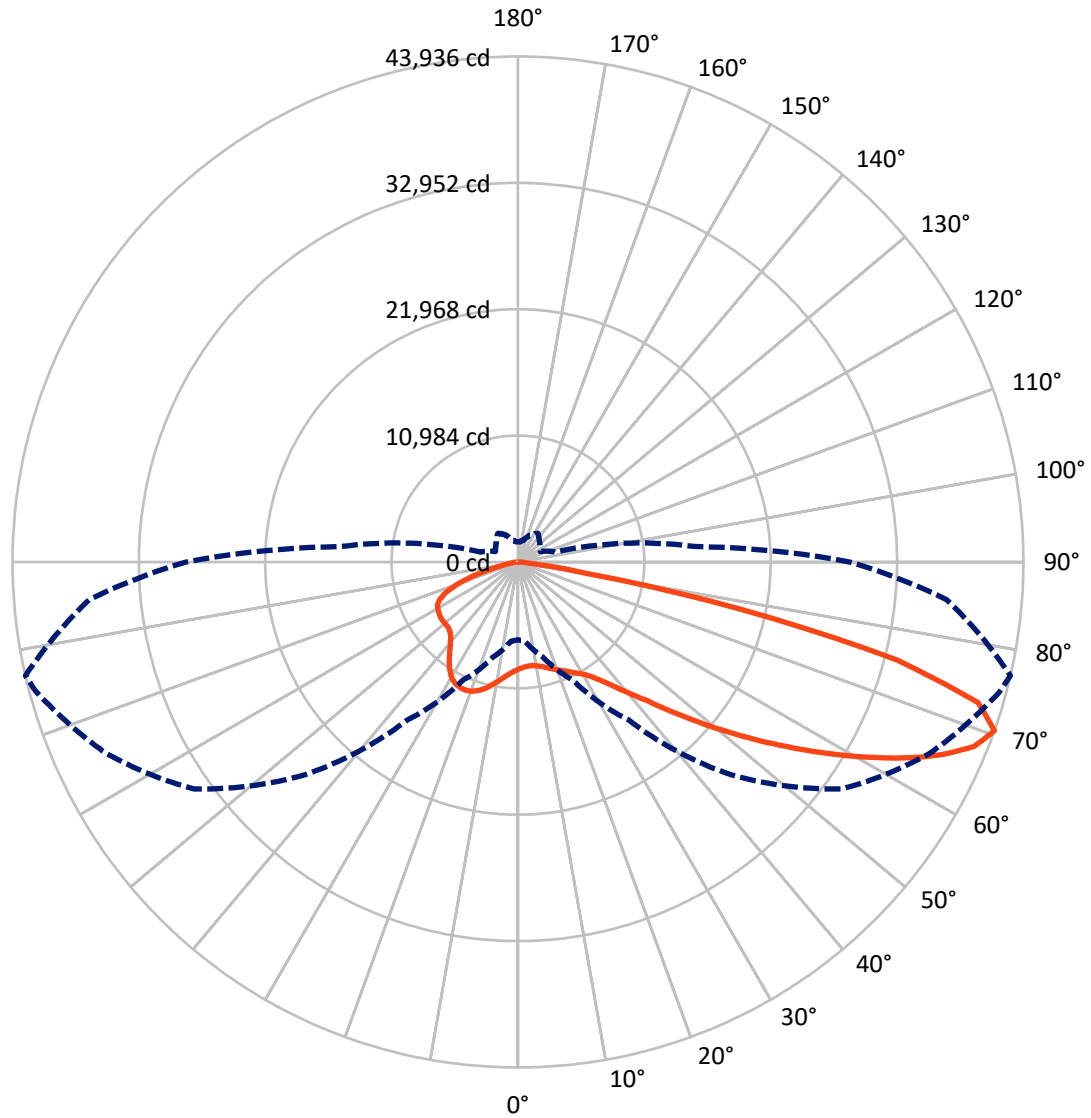
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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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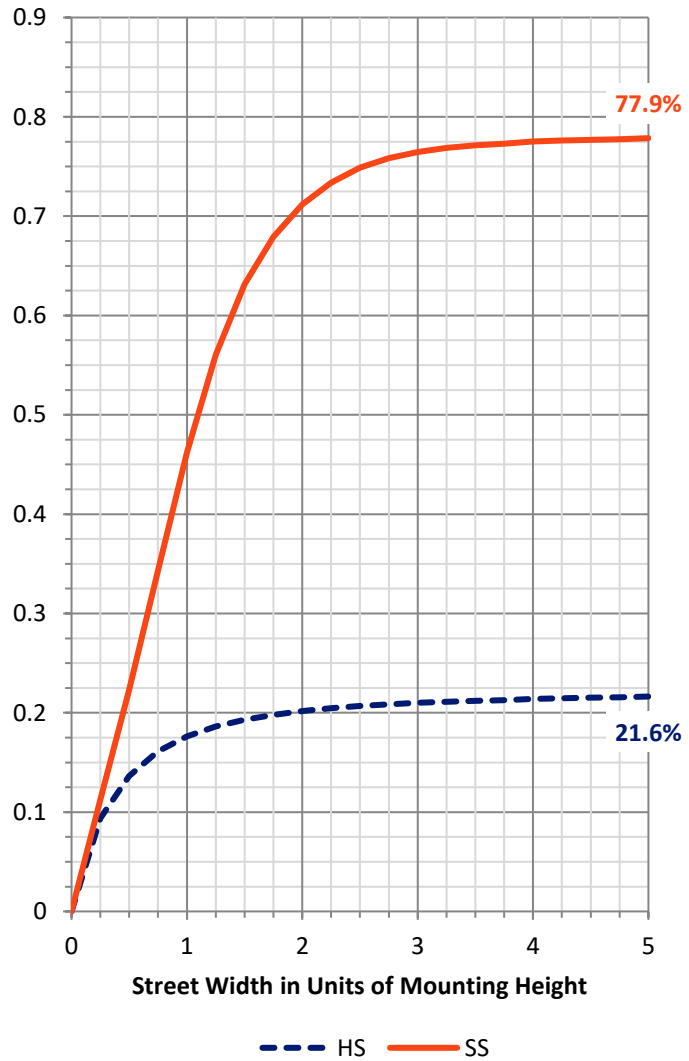
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14618.5	0.0	14618.5
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	52137.5	0.0	52137.5
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	66756.0	0.0	66756.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	888.2	1.3
10°-20°	2563.5	3.8
20°-30°	4383.9	6.6
30°-40°	7049.8	10.6
40°-50°	11006.6	16.5
50°-60°	14702.1	22.0
60°-70°	15670.2	23.5
70°-80°	9646.5	14.5
80°-90°	845.3	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°	66756.0	100.0
0°-180°	66756.0	100.0

**Coefficient of Utilization**



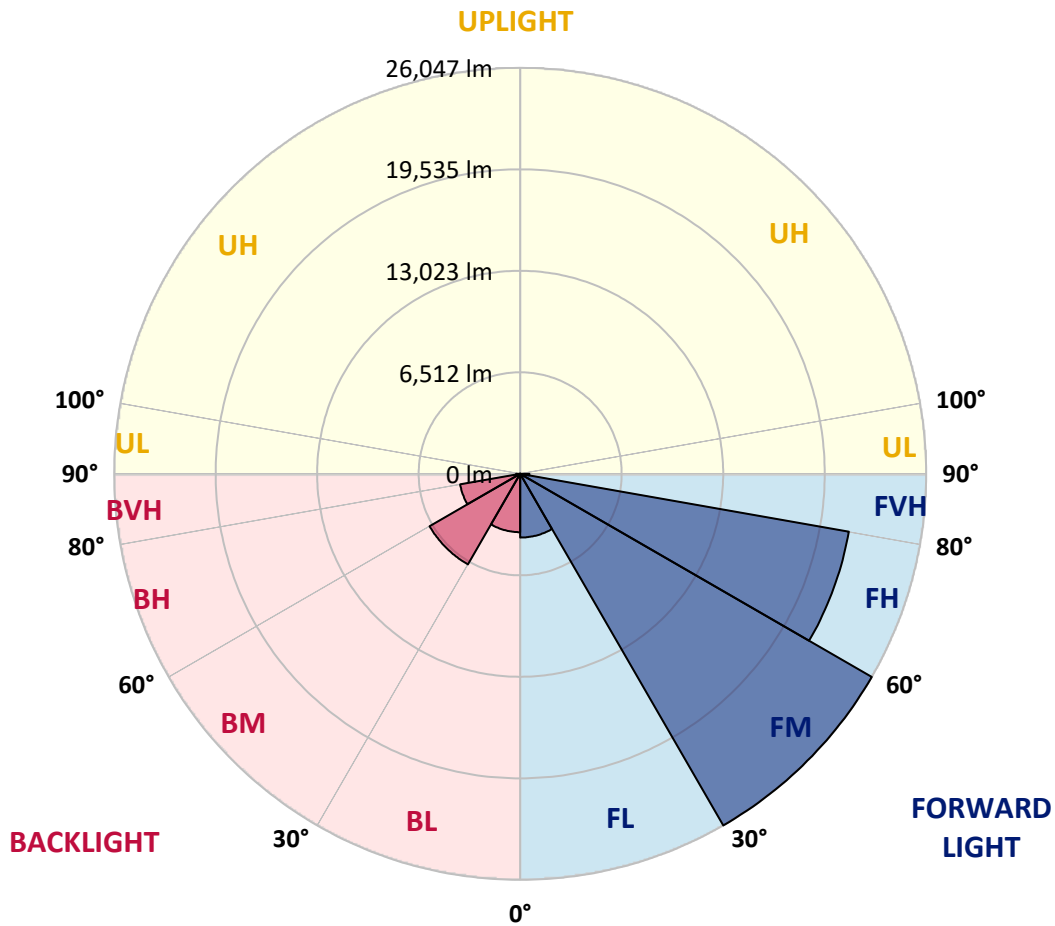
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4089.9	6.1			
FM (30°-60°)	26046.7	39.0			
FH (60°-80°)	21409.8	32.1			G5
FVH (80°-90°)	591.1	0.9			G4/750
BL (0°-30°)	3745.7	5.6	B4/5000		
BM (30°-60°)	6711.7	10.1	B4/8500		
BH (60°-80°)	3906.9	5.9	B4/5000		G4/5000
BVH (80°-90°)	254.2	0.4			G3/500
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°	9313.1	9313.1	9313.1	9313.1	9313.1	9313.1	9313.1	9313.1	9313.1	9313.1
2.5°	8584.8	8581.4	8625.9	8639.5	8721.6	8779.7	8889.1	9005.4	9155.8	9172.9
5°	8089.1	8089.1	8140.4	8195.1	8301.1	8417.3	8584.8	8786.6	9046.4	9087.4
7.5°	7668.6	7695.9	7740.4	7846.4	7969.4	8137.0	8393.4	8680.6	9022.5	9087.4
10°	7330.1	7360.9	7415.6	7501.1	7685.7	7918.2	8253.2	8622.5	9080.6	9183.2
12.5°	7224.1	7254.9	7285.7	7350.6	7521.6	7795.1	8195.1	8649.8	9220.8	9323.3
15°	7470.3	7507.9	7484.0	7466.9	7555.8	7805.3	8222.4	8749.0	9395.1	9542.1
17.5°	8037.8	8051.5	7996.8	7836.1	7822.4	7955.8	8352.4	8885.7	9613.9	9774.6
20°	8954.1	8930.2	8817.3	8499.4	8318.2	8290.8	8574.6	9090.8	9839.6	10010.5
22.5°	10198.6	10171.2	9945.6	9443.0	9039.6	8772.9	8896.0	9357.5	10092.6	10284.0
25°	11750.7	11713.1	11381.5	10697.7	10072.1	9412.2	9333.6	9709.7	10403.7	10581.5
27.5°	13562.8	13532.0	13173.0	12270.4	11367.8	10287.5	9877.2	10123.3	10728.5	10930.2
30°	15511.5	15600.4	14964.5	13993.5	12851.6	11429.4	10608.8	10632.8	11149.0	11330.2
32.5°	17802.2	17956.0	17190.2	15959.4	14400.4	12670.4	11531.9	11343.9	11761.0	11911.4
35°	20072.3	20246.7	19610.8	18250.1	16455.1	14133.7	12496.1	12161.0	12574.7	12738.8
37.5°	22034.8	22267.3	21939.1	20756.1	18653.5	15897.9	13754.2	13121.7	13576.4	13781.6
40°	23583.5	23939.1	23915.2	23176.7	21245.0	18038.1	15350.8	14308.1	14820.9	15043.1
42.5°	24841.7	25149.4	25416.1	25378.5	23949.4	20468.9	17227.8	15850.0	16239.8	16496.2
45°	25710.1	26038.3	26612.7	27231.5	26551.1	23070.7	19378.3	17679.1	18034.7	18421.0
47.5°	26486.2	26858.8	27604.2	28585.4	28759.7	25682.7	21733.9	19809.1	20133.9	20533.9
50°	26554.6	26875.9	28031.5	29423.0	30329.0	28192.2	24263.9	22198.9	22503.2	22930.5
52.5°	24903.2	25409.2	27426.4	29399.1	31050.4	30291.4	26776.8	24684.4	25026.3	25539.1
55°	19330.4	20072.3	25652.0	28482.8	30794.0	31648.7	29166.6	27327.2	27764.8	28301.6
57.5°	16650.0	16974.8	20362.9	26814.4	29624.7	32000.9	31183.7	29997.4	30701.7	31289.7
60°	14964.5	15234.6	17238.1	24219.5	28086.2	31443.6	32742.8	32486.3	33703.5	34404.3
62.5°	13159.3	13415.7	15238.0	20222.8	26116.9	30517.1	33727.4	34783.8	36780.5	37546.3
65°	11367.8	11586.6	13333.7	16991.9	23614.3	29590.5	34236.8	36770.2	39628.4	40421.6
67.5°	9371.2	9552.4	11203.7	14335.4	20571.5	28322.1	34489.8	38332.7	42107.1	42787.5
70°	6762.6	6902.7	8608.8	11337.1	16752.6	26140.9	34387.2	39440.4	43392.6	43936.2
72.5°	3196.7	3323.2	5326.6	7360.9	11832.8	21894.6	32312.0	38561.7	42086.6	41816.5
75°	1706.0	1815.4	3059.9	4037.7	6249.7	15009.0	26441.7	33218.0	35341.1	34028.3
77.5°	1155.6	1241.1	1894.1	2424.0	2854.8	7125.0	16995.3	22998.9	22127.1	19959.5
80°	916.3	1005.2	1552.2	1641.1	1381.2	2574.4	7022.4	10646.4	7648.1	6116.4
82.5°	704.3	803.4	1306.0	1189.8	752.2	1056.4	2044.5	3367.6	1959.0	1490.6
85°	430.8	536.8	1025.7	759.0	423.9	482.1	694.0	936.8	598.3	499.2
87.5°	218.8	307.7	519.7	276.9	191.5	112.8	184.6	184.6	157.3	136.8
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°
9313.1	0°	9313.1	9313.1	9313.1	9313.1	9313.1	9313.1	9313.1	9313.1	9313.1	9313.1
9265.2	2.5°	9347.3	9415.6	9531.9	9641.3	9726.8	9808.8	9890.9	9935.3	9949.0	10003.7
9316.5	5°	9456.7	9583.2	9808.8	10020.8	10154.1	10236.2	10294.3	10328.5	10335.3	10352.4
9456.7	7.5°	9658.4	9860.1	10174.6	10386.6	10485.8	10478.9	10455.0	10369.5	10335.3	10304.6
9661.8	10°	9942.1	10208.8	10595.2	10742.2	10680.6	10516.5	10304.6	10055.0	9938.7	9825.9
9942.1	12.5°	10294.3	10632.8	11012.3	11005.4	10701.1	10280.6	9788.3	9405.4	9162.6	8988.3
10287.5	15°	10721.7	11111.4	11402.0	11169.5	10502.8	9747.3	9025.9	8526.7	8307.9	8116.5
10636.2	17.5°	11162.7	11579.8	11713.1	11118.2	10003.7	8957.5	8140.4	7747.2	7531.8	7429.3
11012.3	20°	11593.5	12007.2	11897.8	10824.2	9244.7	8061.8	7333.5	7118.1	7073.7	7097.6
11378.1	22.5°	12048.2	12417.4	11935.4	10256.7	8277.1	7145.5	6745.5	6752.3	6851.5	6923.3
11761.0	25°	12513.2	12762.7	11836.2	9436.2	7237.8	6472.0	6372.8	6482.2	6677.1	6817.3
12191.8	27.5°	12961.0	13070.4	11620.8	8420.7	6345.5	5989.9	6007.0	6232.6	6526.7	6721.5
12714.9	30°	13467.0	13343.9	11207.1	7278.8	5726.6	5576.2	5719.8	5983.1	6277.1	6451.5
13374.7	32.5°	14038.0	13579.9	10550.7	6222.4	5289.0	5244.6	5480.5	5651.4	5781.4	5832.6
14250.0	35°	14749.1	13911.5	9709.7	5480.5	4895.9	5001.8	5227.5	5142.0	5090.7	5063.4
15426.1	37.5°	15672.2	14359.4	8725.0	4998.4	4577.9	4827.5	4919.8	4653.1	4451.4	4352.3
16851.7	40°	16783.4	15015.8	7778.0	4625.8	4376.2	4677.0	4516.4	4195.0	3938.6	3798.4
18455.2	42.5°	18017.6	15703.0	6981.4	4345.4	4263.4	4554.0	4218.9	3836.0	3422.3	3377.9
20366.4	45°	19313.3	16410.7	6437.8	4130.0	4208.7	4448.0	4048.0	3429.2	3135.1	3316.3
22284.4	47.5°	20609.1	17060.3	6109.6	3969.3	4181.3	4328.3	3897.5	3203.5	2995.0	3258.2
24339.1	50°	22051.9	17641.5	5962.6	3853.1	4150.5	4280.5	3671.9	3145.4	2847.9	3022.3
26465.7	52.5°	23484.4	18092.8	5853.1	3736.9	4106.1	4242.8	3562.5	3077.0	2670.2	2680.4
28605.9	55°	24913.5	18386.8	5733.5	3583.0	4006.9	4160.8	3552.2	3001.8	2536.8	2489.0
30869.2	57.5°	26438.3	18554.3	5586.5	3412.1	3836.0	3952.2	3542.0	2943.7	2495.8	2417.2
33183.8	60°	27990.5	18800.5	5395.0	3203.5	3606.9	3702.7	3518.0	2923.2	2471.9	2338.5
35365.1	62.5°	29382.0	18886.0	5166.0	3005.2	3312.9	3456.5	3466.8	2906.1	2406.9	2177.8
37177.1	65°	30294.8	18516.7	4765.9	2779.6	2995.0	3203.5	3367.6	2847.9	2290.7	2061.6
38072.8	67.5°	30257.2	17463.7	4140.3	2489.0	2687.3	2923.2	3224.0	2748.8	2150.5	1918.0
37395.9	70°	28848.6	15385.0	3347.1	2150.5	2348.8	2622.3	3039.4	2601.8	1983.0	1760.7
33252.2	72.5°	24742.5	12041.3	2430.8	1753.9	1955.6	2311.2	2800.1	2424.0	1812.0	1620.6
24575.0	75°	17675.7	7620.7	1647.9	1347.0	1521.4	1959.0	2502.6	2215.4	1654.7	1627.4
12308.0	77.5°	9029.3	3641.1	1090.6	984.6	1059.9	1545.3	2102.6	1979.5	1678.7	1343.6
3500.9	80°	2936.8	1343.6	687.2	670.1	704.3	1029.1	1627.4	1624.0	1271.8	912.8
847.9	82.5°	936.8	577.8	447.9	430.8	413.7	646.2	1135.1	1285.5	858.1	577.8
304.3	85°	372.7	345.3	263.3	242.7	174.4	304.3	594.9	854.7	639.3	417.1
78.6	87.5°	136.8	136.8	71.8	51.3	37.6	102.6	160.7	256.4	365.8	215.4
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>
9313.1
10034.5
10379.8
10311.4
9791.7
8947.2
8095.9
7460.0
7087.4
6940.4
6854.9
6769.4
6492.5
5860.0
5090.7
4376.2
3808.6
3422.3
3412.1
3381.3
3152.2
2752.2
2523.1
2427.4
2348.8
2177.8
2061.6
1928.3
1781.2
1610.3
1535.1
1196.6
806.9
574.4
427.4
212.0
0.0

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