

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: P943335

Luminaire Tested: **GALN-SB7D-735-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943335  
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-SB7D-735-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 71706 lumens  
Efficiency: N/A  
Efficacy: 139.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B5 - U0 - G5

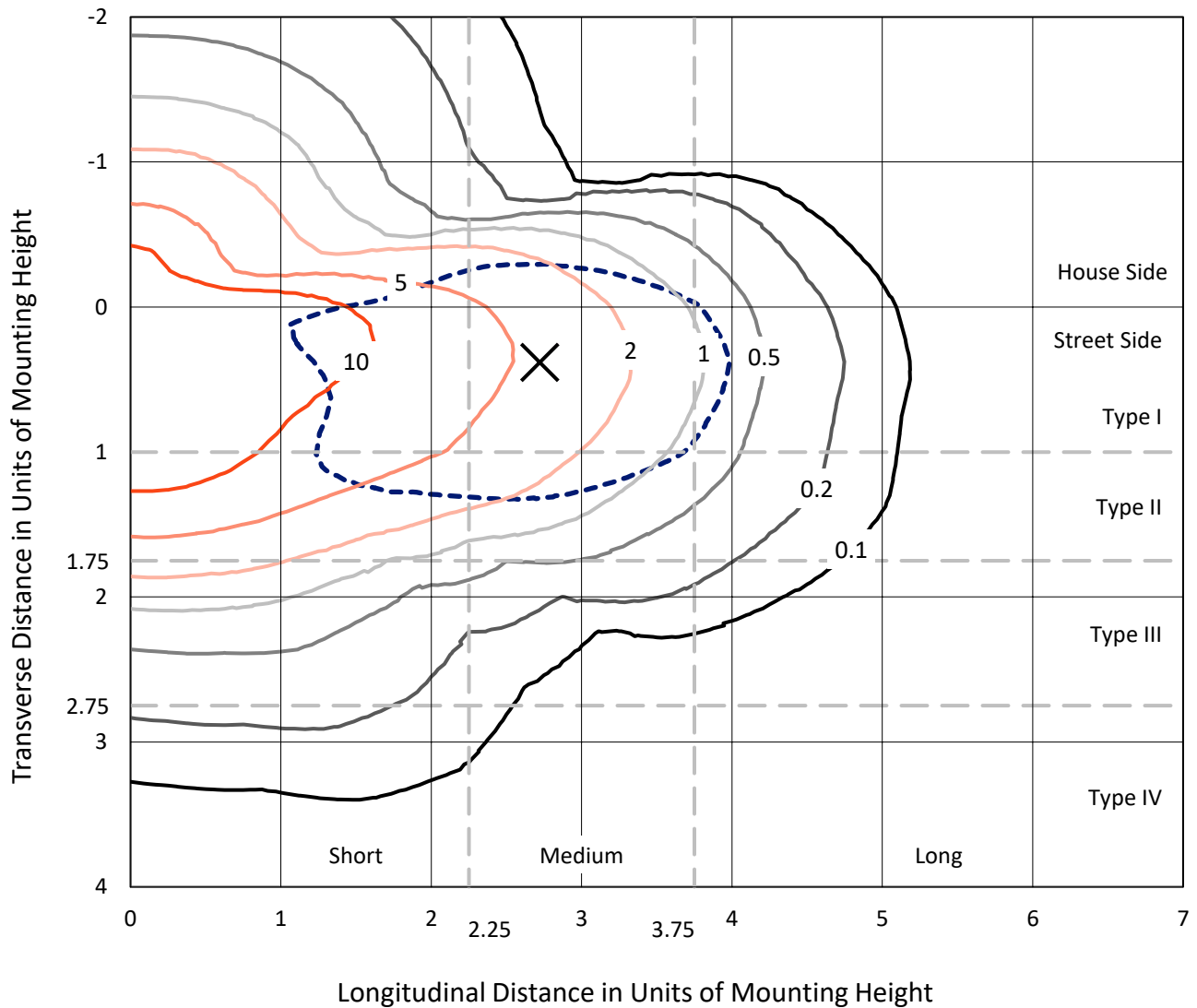
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

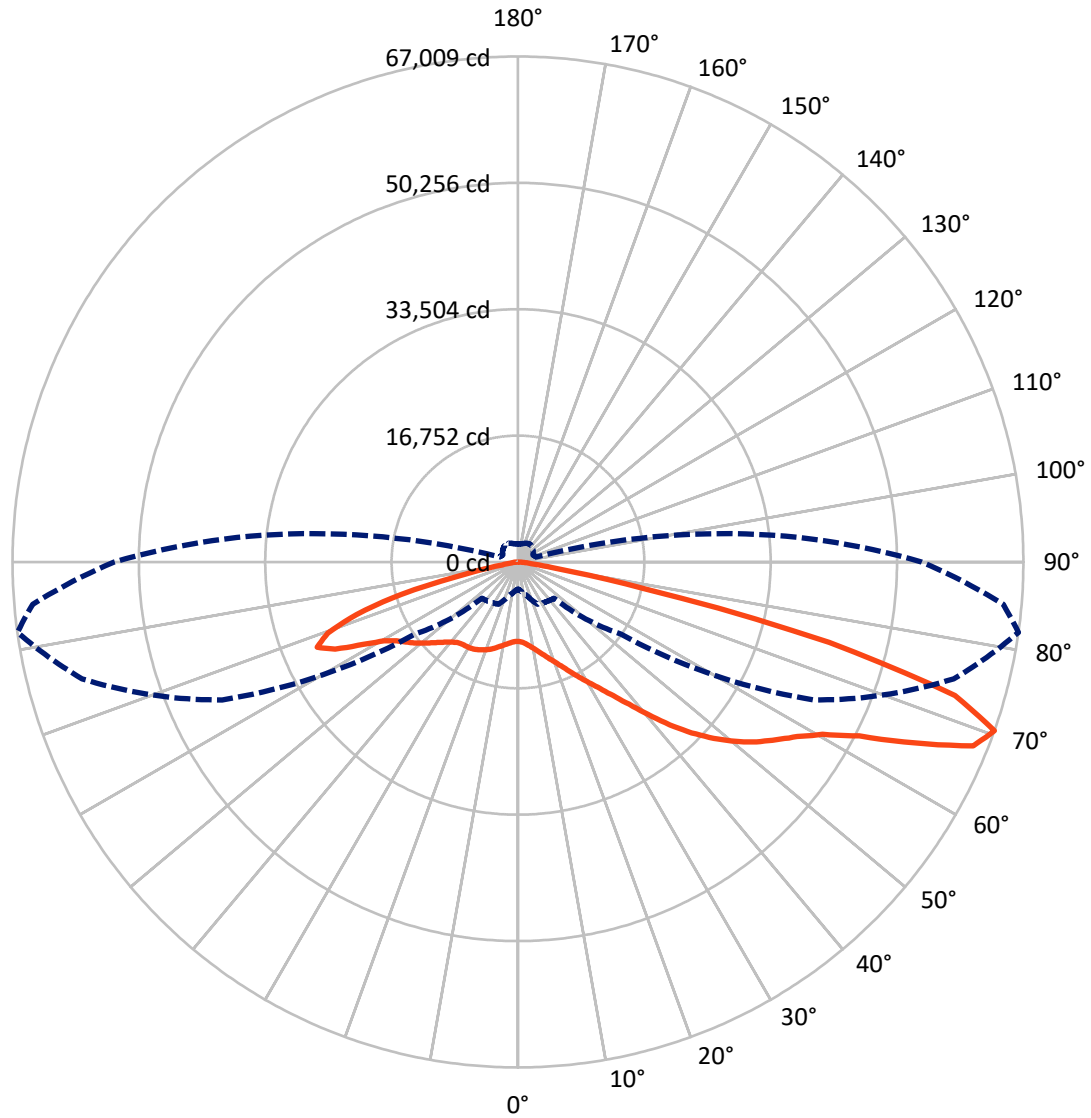
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 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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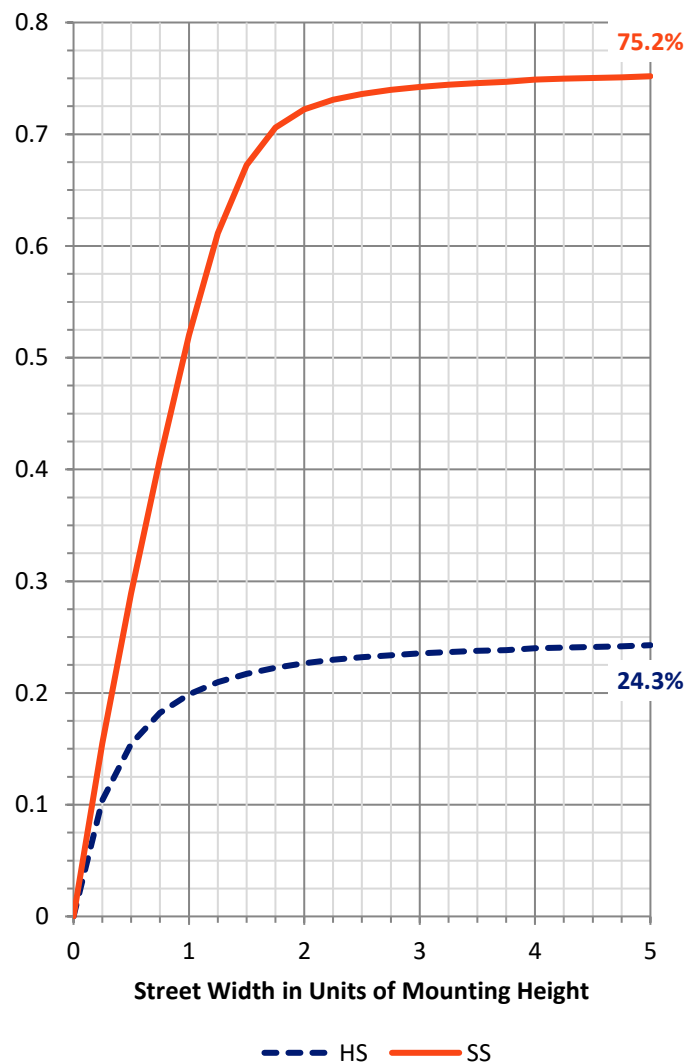
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17677.3	0.0	17677.3
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	54028.7	0.0	54028.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	71706.0	0.0	71706.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	992.6	1.4
10°-20°	2851.8	4.0
20°-30°	4770.8	6.7
30°-40°	7453.3	10.4
40°-50°	11870.2	16.6
50°-60°	16518.8	23.0
60°-70°	17279.4	24.1
70°-80°	9031.2	12.6
80°-90°	937.8	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°	71706.0	100.0
0°-180°	71706.0	100.0

**Coefficient of Utilization**



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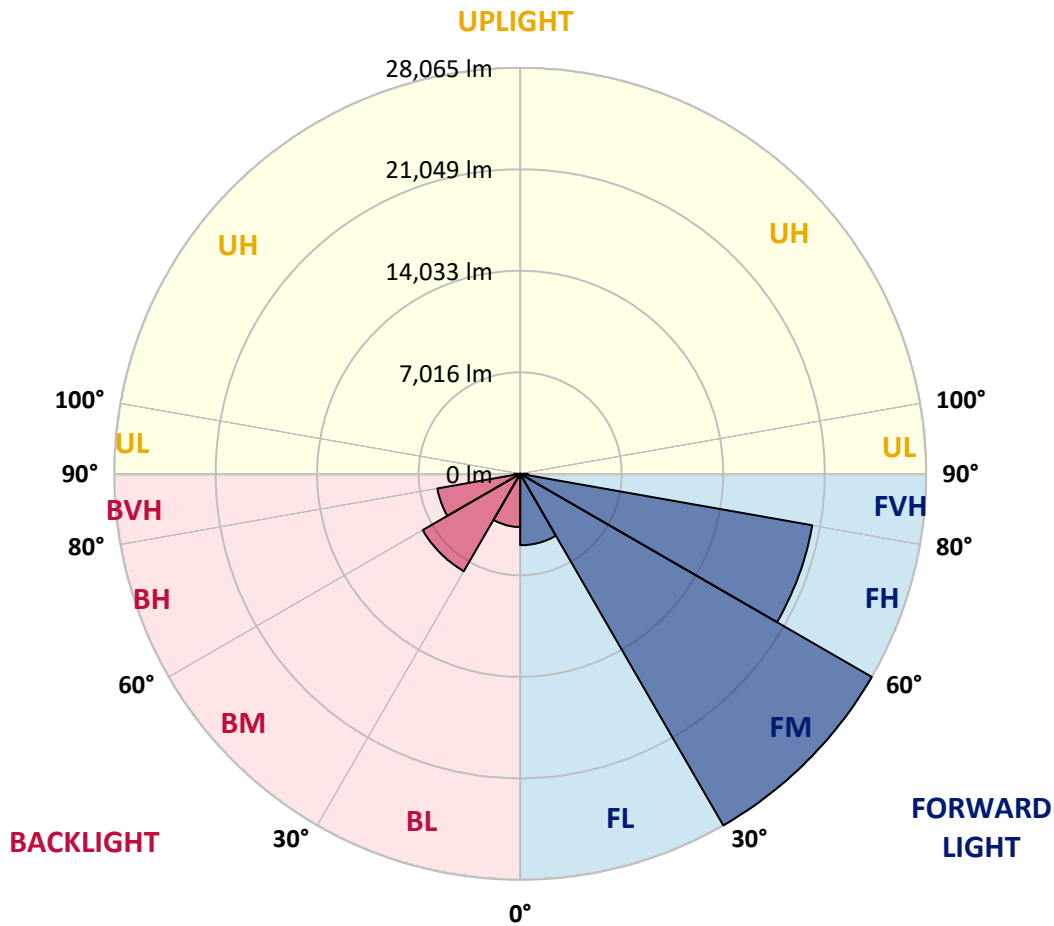
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4937.8	6.9			
FM (30°-60°)	28065.0	39.1			
FH (60°-80°)	20501.0	28.6			G5
FVH (80°-90°)	525.0	0.7			G4/750
BL (0°-30°)	3677.5	5.1	B4/5000		
BM (30°-60°)	7777.3	10.8	B4/8500		
BH (60°-80°)	5809.7	8.1	B5		G5
BVH (80°-90°)	412.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	10513.0	10513.0	10513.0	10513.0	10513.0	10513.0	10513.0	10513.0	10513.0	10513.0
2.5°	10764.1	10825.0	10806.0	10787.0	10787.0	10760.3	10756.5	10718.5	10688.0	10638.6
5°	10901.1	10965.8	10958.2	10973.4	11022.9	11034.3	11045.7	11022.9	10962.0	10901.1
7.5°	10779.3	10851.6	10874.5	10965.8	11118.0	11255.0	11357.7	11399.5	11342.5	11255.0
10°	10368.4	10448.3	10528.2	10745.1	11015.2	11338.7	11612.6	11776.2	11764.8	11681.1
12.5°	9535.1	9618.8	9790.1	10212.4	10707.0	11277.8	11787.6	12130.1	12248.0	12187.2
15°	8869.3	8941.6	9070.9	9504.7	10147.7	11015.2	11852.3	12518.2	12818.8	12784.5
17.5°	8850.2	8880.7	8960.6	9166.1	9660.7	10604.3	11783.8	12898.7	13473.2	13469.4
20°	9185.1	9196.5	9242.2	9284.0	9565.6	10292.3	11608.8	13214.5	14207.6	14207.6
22.5°	9649.3	9641.7	9687.3	9649.3	9786.3	10265.7	11498.5	13492.2	15025.6	15086.5
25°	10345.6	10307.5	10296.1	10208.6	10235.2	10513.0	11620.2	13808.1	15995.9	16121.4
27.5°	11274.0	11213.1	11171.2	10969.6	10901.1	11022.9	11993.1	14188.5	17076.5	17293.4
30°	12483.9	12373.6	12312.7	11962.7	11715.4	11734.4	12556.2	14694.6	18206.5	18556.6
32.5°	14135.3	13964.1	13800.4	13225.9	12773.1	12624.7	13283.0	15394.7	19431.7	19991.1
35°	15984.5	15847.5	15672.5	14785.9	14089.6	13747.2	14264.6	16372.6	20866.2	21752.7
37.5°	17765.2	17647.2	17730.9	16536.2	15638.2	15139.8	15550.7	17685.3	22635.5	23944.4
40°	19606.8	19515.4	19526.9	18385.4	17339.0	16779.7	17110.7	19332.8	24663.5	26550.7
42.5°	21608.1	21539.7	21311.4	20299.3	19123.5	18602.3	18906.7	21235.3	26839.9	29518.6
45°	23849.2	23807.4	23594.3	22433.8	21086.9	20500.9	20911.8	23335.6	29027.7	32311.4
47.5°	25785.9	25820.2	25793.6	24815.7	23419.3	22559.4	23050.2	25527.2	31063.4	34936.8
50°	26718.2	26897.0	27159.5	26855.1	25987.6	25112.5	25207.6	27642.7	33003.9	37398.6
52.5°	26231.1	26569.8	27285.1	27772.1	28107.0	27924.3	27669.4	29743.1	34830.2	39620.6
55°	24416.2	24891.8	26078.9	27254.6	28963.1	30291.0	30625.8	32071.7	36610.9	41576.4
57.5°	21109.7	21882.1	22947.5	25325.6	28202.1	31436.3	34073.1	35302.1	38498.2	43665.3
60°	15440.4	16475.3	17799.4	21338.0	25538.6	30823.7	37006.7	40263.7	41180.7	46370.6
62.5°	9881.4	10520.6	11738.2	15071.3	19899.7	27684.6	37904.6	46465.7	45727.5	50807.1
65°	6765.1	7176.1	8290.9	10162.9	12864.4	20607.5	35499.9	51115.3	52949.3	57838.6
67.5°	4916.0	5228.0	6179.2	7819.1	8382.2	12194.8	27547.6	50902.2	59969.4	65083.2
70°	3584.2	3804.9	4604.0	6179.2	6449.3	6784.2	16688.4	43269.6	59817.2	67008.5
72.5°	2655.8	2808.0	3344.5	4794.2	5220.4	4581.1	8260.5	31447.7	51400.7	60608.6
75°	1921.5	2035.6	2431.3	3667.9	4177.8	3489.1	4120.7	18377.8	35853.8	42634.1
77.5°	1468.7	1556.2	1814.9	2686.3	3344.5	2617.8	2556.9	8454.5	17000.4	17084.1
80°	1179.5	1236.6	1377.4	1891.0	2564.5	1959.5	1666.6	3413.0	5372.5	4546.9
82.5°	867.5	962.6	1164.3	1327.9	1834.0	1350.7	1015.9	1723.6	2043.2	1757.9
85°	494.6	559.3	703.9	951.2	1171.9	825.7	582.2	764.8	951.2	780.0
87.5°	175.0	228.3	247.3	372.9	509.9	342.4	224.5	220.7	312.0	232.1
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°
10513.0	0°	10513.0	10513.0	10513.0	10513.0	10513.0	10513.0	10513.0	10513.0	10513.0	10513.0
10627.1	2.5°	10589.1	10570.1	10494.0	10391.2	10284.7	10182.0	10147.7	10075.4	10026.0	9999.3
10874.5	5°	10802.2	10741.3	10562.5	10334.2	10094.5	9835.7	9653.1	9485.7	9363.9	9249.8
11213.1	7.5°	11106.6	11000.0	10691.8	10292.3	9866.2	9436.2	9116.6	8873.1	8709.5	8602.9
11608.8	10°	11460.4	11296.8	10825.0	10227.6	9569.4	8953.0	8576.3	8367.0	8264.3	8207.2
12061.6	12.5°	11867.5	11635.4	10962.0	10079.2	9116.6	8412.7	8153.9	8093.1	8096.9	8100.7
12632.3	15°	12369.8	12046.4	11072.3	9755.8	8526.8	7997.9	7952.3	8051.2	8153.9	8203.4
13279.2	17.5°	12936.7	12480.1	11091.3	9223.1	7948.5	7731.6	7876.2	8089.3	8245.3	8313.8
14002.1	20°	13545.5	12921.5	10954.4	8469.8	7472.9	7514.7	7773.5	8047.4	8218.6	8306.1
14827.8	22.5°	14241.8	13393.3	10627.1	7678.3	7084.8	7278.8	7583.2	7849.6	8028.4	8115.9
15798.0	25°	15037.0	13922.2	10113.5	7012.5	6749.9	7012.5	7316.9	7537.5	7682.1	7762.0
16882.4	27.5°	15919.8	14473.9	9428.6	6483.6	6457.0	6738.5	6989.6	7160.9	7237.0	7297.8
18035.3	30°	16806.3	14976.2	8599.1	6084.1	6202.0	6468.4	6647.2	6723.3	6746.1	6757.5
19321.4	32.5°	17765.2	15409.9	7727.8	5753.0	5958.5	6205.8	6312.4	6346.6	6240.1	6167.8
20881.4	35°	18925.7	15874.1	6875.5	5490.5	5718.8	5931.9	5966.1	5935.7	5810.1	5661.7
22837.1	37.5°	20360.1	16452.5	6194.4	5304.1	5494.3	5635.1	5593.2	5585.6	5597.0	5422.0
25188.6	40°	22118.0	17205.9	5696.0	5159.5	5311.7	5342.1	5224.2	5288.8	5345.9	5079.6
27768.3	42.5°	24069.9	18115.2	5380.2	5060.5	5159.5	5087.2	4904.5	4976.8	4969.2	4619.2
30359.5	45°	26059.9	19104.5	5269.8	4988.3	5018.7	4874.1	4672.4	4691.5	4531.7	4215.9
32844.1	47.5°	28038.5	20166.1	5338.3	4927.4	4843.7	4680.1	4524.1	4440.3	4204.4	3968.5
35226.0	50°	29979.0	21280.9	5589.4	4805.6	4604.0	4508.8	4394.7	4246.3	3995.2	3793.5
37478.5	52.5°	31778.7	22403.4	5871.0	4604.0	4303.4	4360.4	4288.1	4116.9	3869.6	3664.1
39609.2	55°	33483.3	23525.8	5981.3	4326.2	4021.8	4231.1	4189.2	3873.4	3576.6	3409.2
41838.9	57.5°	35340.1	24876.6	5859.6	3972.3	3793.5	4082.7	3922.9	3572.8	3401.6	3276.0
44742.1	60°	37912.2	26995.9	5597.0	3534.8	3576.6	3862.0	3588.0	3443.5	3257.0	3116.2
49094.9	62.5°	42185.2	30949.2	5174.7	3101.0	3321.7	3534.8	3428.2	3283.6	3093.4	2956.4
56537.3	65°	48501.3	36443.5	4379.5	2762.4	3036.3	3215.2	3257.0	3112.4	2914.6	2770.0
63059.0	67.5°	53828.2	39890.8	3314.1	2480.8	2743.3	2956.4	3074.4	2933.6	2724.3	2583.5
64584.7	70°	53535.2	37387.2	2530.3	2203.0	2484.6	2701.5	2853.7	2743.3	2518.9	2385.7
58664.3	72.5°	47550.1	31276.4	2047.0	1921.5	2222.1	2435.1	2617.8	2534.1	2305.8	2176.4
42976.6	75°	34933.0	22201.7	1636.1	1636.1	1894.9	2157.4	2359.1	2305.8	2096.5	2005.2
18042.9	77.5°	14725.0	9314.4	1282.3	1358.4	1575.2	1853.0	2104.1	2123.1	1940.5	2054.7
4771.4	80°	3915.3	2568.3	977.9	1069.2	1236.6	1529.6	1830.2	1822.6	1624.7	1518.2
1773.1	82.5°	1491.5	1012.1	696.3	753.4	894.2	1171.9	1449.7	1495.3	1297.5	1122.5
696.3	85°	574.5	433.8	430.0	452.8	521.3	776.2	1095.8	1133.9	977.9	829.5
194.1	87.5°	148.4	129.4	159.8	152.2	239.7	414.7	627.8	650.6	597.4	346.2
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>
10513.0
10029.8
9295.4
8625.8
8222.4
8108.3
8199.6
8329.0
8329.0
8138.7
7784.9
7320.7
6784.2
6190.6
5669.3
5433.4
5087.2
4615.4
4227.3
3968.5
3778.3
3667.9
3394.0
3264.6
3108.6
2956.4
2777.6
2587.3
2397.1
2176.4
1978.6
1864.4
1411.6
1122.5
856.1
494.6
0.0

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