

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: P943899

Luminaire Tested: **GALN-SB8C-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53782 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

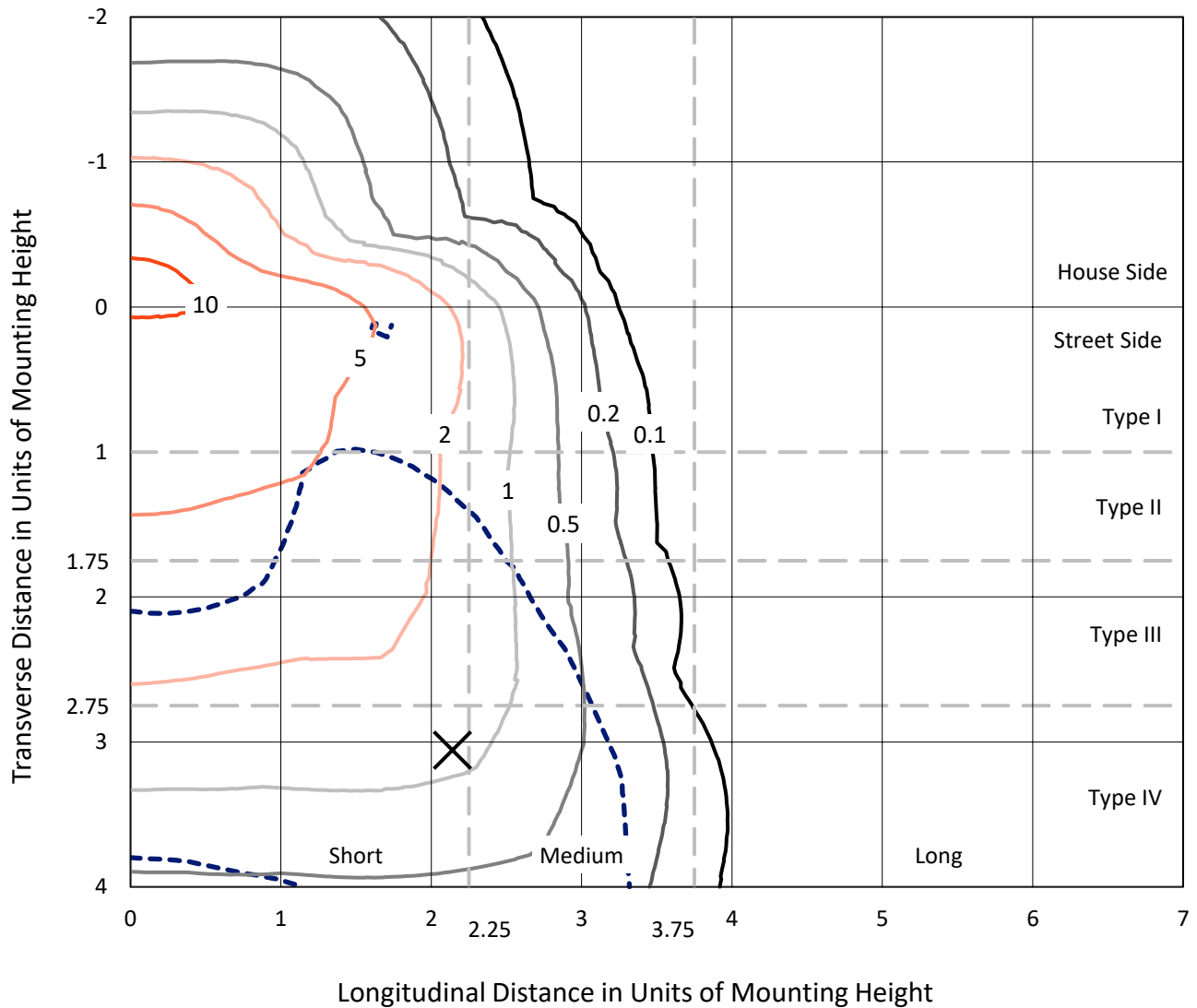
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

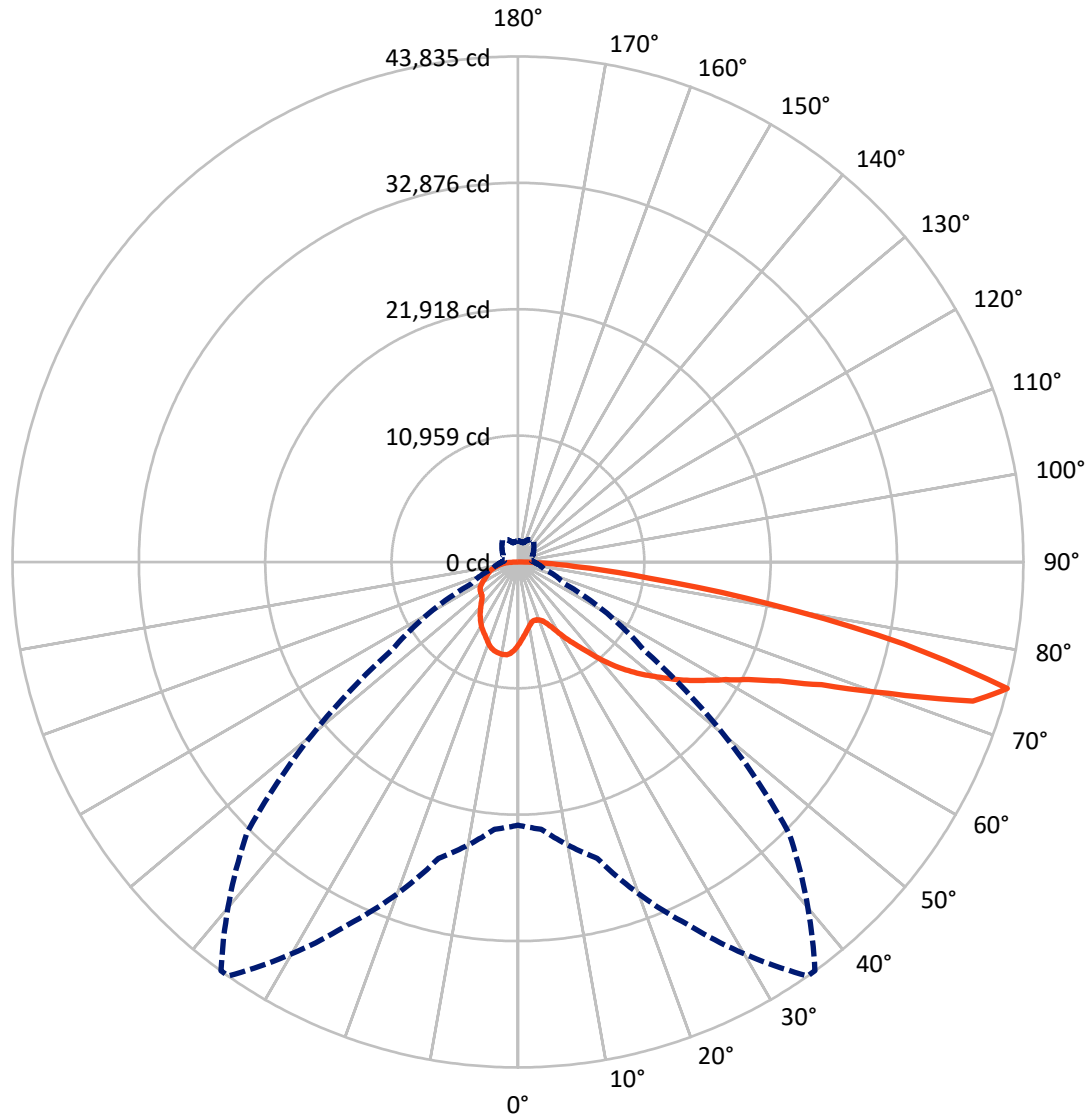
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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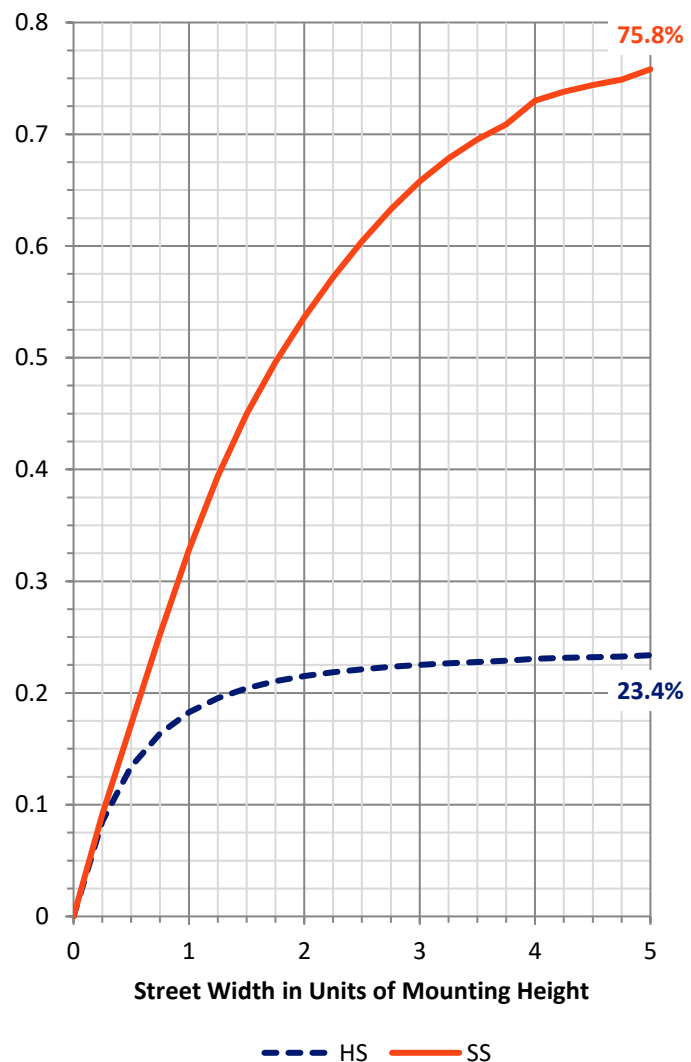
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12798.8	0.0	12798.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	40983.2	0.0	40983.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	53782.0	0.0	53782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.6	1.3
10°-20°	1957.2	3.6
20°-30°	3286.7	6.1
30°-40°	5108.0	9.5
40°-50°	7581.7	14.1
50°-60°	10466.9	19.5
60°-70°	12698.8	23.6
70°-80°	10494.6	19.5
80°-90°	1509.4	2.8
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°	53782.0	100.0
0°-180°	53782.0	100.0

Coefficient of Utilization



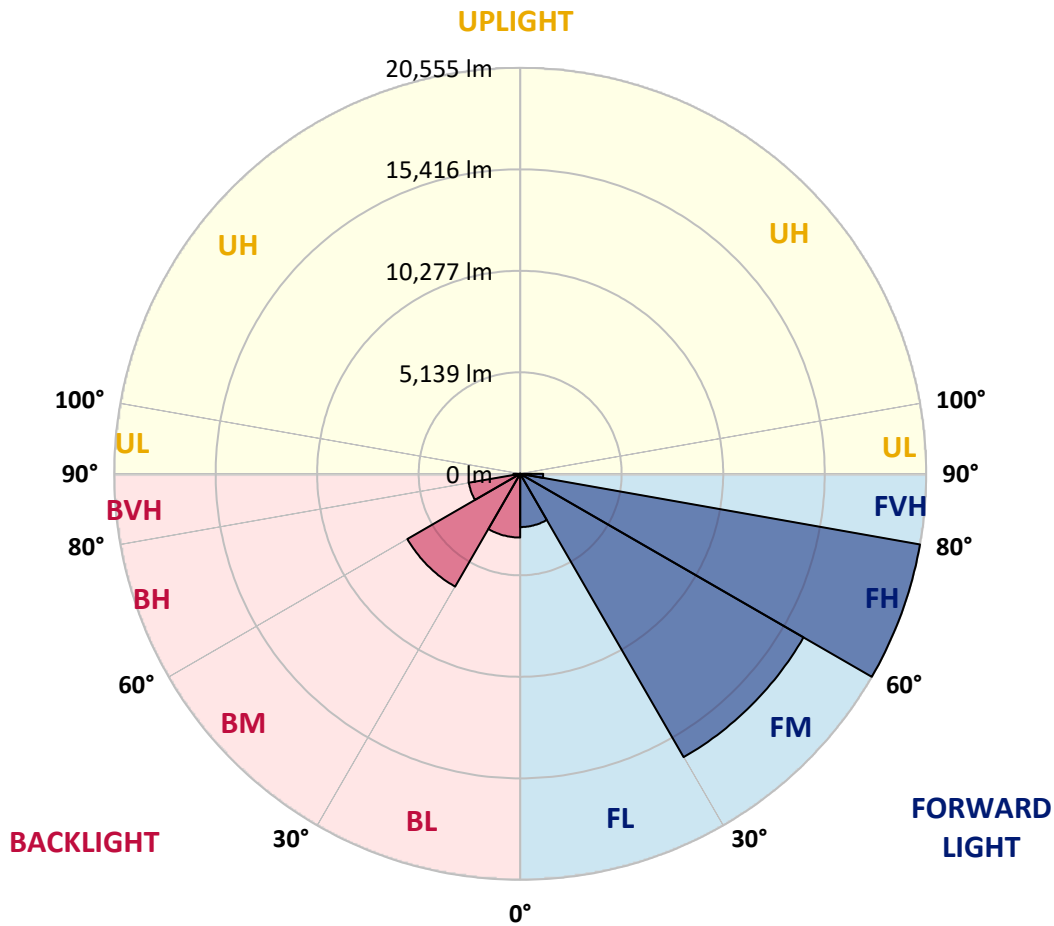
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2697.1	5.0			
FM (30°-60°)	16561.9	30.8			
FH (60°-80°)	20554.7	38.2			G5
FVH (80°-90°)	1169.6	2.2			G5
BL (0°-30°)	3225.5	6.0	B4/5000		
BM (30°-60°)	6594.7	12.3	B4/8500		
BH (60°-80°)	2638.7	4.9	B4/5000		G4/5000
BVH (80°-90°)	339.9	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	7166.8	7166.8	7166.8	7166.8	7166.8	7166.8	7166.8	7166.8	7166.8	7166.8
2.5°	6608.6	6649.3	6666.7	6658.0	6701.6	6695.8	6756.9	6832.5	6937.1	7038.9
5°	6099.8	6143.4	6181.2	6216.1	6300.4	6326.6	6422.5	6567.9	6759.8	6954.6
7.5°	5625.9	5663.7	5721.8	5785.8	5928.3	5954.4	6114.3	6341.1	6608.6	6893.5
10°	5239.2	5277.0	5338.0	5410.7	5588.1	5620.1	5823.6	6126.0	6474.8	6835.4
12.5°	5073.5	5085.1	5120.0	5192.7	5346.8	5367.1	5591.0	5937.0	6344.0	6791.8
15°	5064.7	5088.0	5090.9	5128.7	5256.6	5265.4	5471.8	5814.9	6262.6	6783.0
17.5°	5152.0	5169.4	5143.2	5166.5	5274.1	5288.6	5451.4	5756.7	6236.4	6820.8
20°	5384.6	5399.1	5320.6	5288.6	5367.1	5378.7	5538.7	5794.5	6262.6	6899.3
22.5°	5878.8	5887.5	5695.7	5564.8	5570.6	5576.5	5716.0	5948.6	6364.4	7041.8
25°	6649.3	6643.5	6338.2	6085.3	5939.9	5907.9	6000.9	6198.6	6535.9	7230.8
27.5°	7550.6	7507.0	7201.7	6823.7	6506.8	6460.3	6440.0	6524.3	6780.1	7480.8
30°	8568.2	8527.5	8199.0	7704.7	7265.7	7190.1	6998.2	6954.6	7143.6	7821.0
32.5°	9684.6	9658.5	9266.0	8667.0	8079.7	7992.5	7669.8	7553.5	7701.8	8335.6
35°	10620.8	10597.6	10272.0	9655.6	8937.4	8829.9	8501.3	8370.5	8446.1	8995.6
37.5°	11466.9	11455.3	11176.2	10690.6	9949.2	9818.4	9449.1	9405.5	9391.0	9864.9
40°	12251.9	12222.8	11932.1	11676.2	11126.7	11007.5	10681.9	10644.1	10533.6	10934.8
42.5°	13121.2	13045.6	12624.1	12504.9	12356.6	12257.7	12062.9	12068.7	11824.5	12141.4
45°	13830.6	13787.0	13353.8	13284.0	13444.0	13403.3	13571.9	13615.5	13141.6	13406.2
47.5°	14592.4	14551.7	14185.4	14135.9	14569.1	14580.8	15176.8	15191.3	14426.7	14720.3
50°	15531.5	15473.3	15109.9	15171.0	15656.5	15700.1	16790.4	16691.6	15610.0	16054.8
52.5°	16150.8	16185.7	16107.2	16206.0	16868.9	16909.6	18377.9	18124.9	16781.7	17371.9
55°	16607.2	16677.0	16921.2	17148.0	18148.2	18188.9	19875.2	19488.5	17752.8	18593.0
57.5°	17194.5	17095.7	17552.2	17994.1	19363.5	19471.1	21331.8	20802.7	18613.4	19645.5
60°	18037.7	17967.9	18322.6	18976.8	20724.2	20895.7	22872.8	21986.0	19244.3	20479.9
62.5°	19747.3	19572.8	19628.1	20206.6	22439.5	22666.3	24611.4	23018.1	19558.3	20805.6
65°	22302.9	22003.4	21724.3	22125.5	24855.6	25079.5	26573.9	23829.3	19442.0	20174.7
67.5°	25521.4	25224.9	24881.8	25259.8	28414.3	28591.7	28995.8	24285.8	18526.1	17744.0
70°	28175.9	28065.4	28475.4	30030.8	34098.3	34104.2	32100.9	23907.8	16017.0	12580.5
72.5°	27824.1	27757.2	29917.5	34726.3	41262.2	41108.2	35040.3	21046.9	10789.5	5675.3
75°	22826.2	23259.4	26605.9	34642.0	43835.3	43815.0	33240.6	13380.0	4462.9	2352.1
77.5°	12240.3	12926.4	17273.0	25576.7	34220.5	34735.1	23369.9	4681.0	1916.0	1506.0
80°	3991.9	4590.8	6884.8	13022.4	22236.0	22140.1	10016.1	1837.5	1311.3	1067.0
82.5°	1695.0	1764.8	3076.1	6149.2	11411.7	11234.3	3189.5	1055.4	921.7	729.8
85°	662.9	741.4	1357.8	2843.5	4942.6	4835.1	1151.3	523.3	590.2	476.8
87.5°	218.1	264.6	485.5	974.0	1538.0	1482.8	282.0	180.3	255.9	218.1
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°
7166.8	0°	7166.8	7166.8	7166.8	7166.8	7166.8	7166.8	7166.8	7166.8	7166.8	7166.8
7187.2	2.5°	7227.9	7274.4	7329.6	7411.0	7480.8	7539.0	7600.0	7637.8	7652.4	7696.0
7198.8	5°	7280.2	7382.0	7518.6	7652.4	7783.2	7861.7	7931.5	7966.4	7998.3	8021.6
7230.8	7.5°	7367.4	7498.3	7713.4	7887.9	7998.3	8062.3	8108.8	8097.2	8108.8	8114.6
7265.7	10°	7443.0	7626.2	7882.0	8047.8	8132.1	8135.0	8123.4	8082.7	8062.3	8065.2
7318.0	12.5°	7533.2	7736.7	8012.9	8152.4	8175.7	8111.7	8062.3	7992.5	7966.4	7954.7
7396.5	15°	7655.3	7887.9	8155.3	8207.7	8149.5	8068.1	7983.8	7870.4	7812.3	7765.7
7530.2	17.5°	7803.5	8059.4	8265.8	8228.0	8103.0	7969.3	7832.6	7661.1	7541.9	7492.4
7713.4	20°	8010.0	8239.7	8350.1	8184.4	7995.4	7791.9	7559.3	7350.0	7239.5	7190.1
7946.0	22.5°	8260.0	8481.0	8431.5	8108.8	7841.3	7515.7	7225.0	7070.9	7015.6	6980.7
8245.5	25°	8559.5	8748.5	8489.7	7998.3	7588.4	7149.4	6925.5	6876.1	6849.9	6823.7
8611.8	27.5°	8949.1	9050.8	8533.3	7835.5	7193.0	6759.8	6678.4	6687.1	6678.4	6634.8
9120.6	30°	9463.7	9443.3	8574.0	7570.9	6739.4	6408.0	6413.8	6451.6	6457.4	6428.3
9830.0	32.5°	10141.1	9934.7	8594.4	7227.9	6306.2	6099.8	6105.6	6146.3	6175.4	6126.0
10757.5	35°	10961.0	10507.5	8562.4	6797.6	5971.9	5806.1	5762.5	5774.2	5782.9	5736.4
11882.7	37.5°	11917.6	11150.0	8419.9	6320.8	5695.7	5518.3	5425.3	5346.8	5300.2	5256.6
13156.1	40°	12967.1	11850.7	8158.2	5855.6	5387.5	5213.0	5073.5	4925.2	4768.2	4710.0
14505.2	42.5°	14066.1	12571.7	7841.3	5410.7	5032.8	4890.3	4742.0	4526.9	4291.4	4172.2
15906.6	45°	15205.9	13310.2	7530.2	4971.7	4669.3	4608.3	4436.7	4178.0	3922.1	3770.9
17310.8	47.5°	16322.3	14008.0	7073.8	4529.8	4329.2	4396.0	4262.3	4023.9	3739.0	3500.5
18703.5	50°	17389.3	14662.2	6326.6	4082.0	4053.0	4332.1	4204.1	3861.1	3535.4	3230.2
20070.0	52.5°	18447.6	15191.3	5370.0	3675.0	3904.7	4314.6	4128.6	3750.6	3352.3	3032.4
21355.1	55°	19346.0	15464.6	4448.4	3326.1	3689.5	4166.3	4038.4	3619.8	3093.5	2753.3
22236.0	57.5°	19857.7	15243.7	3680.8	2983.0	3393.0	3922.1	3884.3	3340.6	2785.3	2523.6
22407.6	60°	19636.8	14348.2	3052.8	2683.6	3111.0	3657.5	3616.8	3064.4	2549.8	2302.7
21488.8	62.5°	18418.6	12641.5	2555.6	2421.9	2855.1	3387.2	3349.4	2852.2	2369.6	2131.1
19049.5	65°	15964.7	10283.6	2168.9	2203.8	2596.3	3061.5	3116.8	2674.8	2227.1	1994.5
14737.8	67.5°	12176.3	7448.8	1866.6	2014.8	2343.4	2741.7	2901.6	2546.9	2107.9	1886.9
8527.5	70°	6940.0	4230.3	1610.7	1831.7	2119.5	2445.1	2735.9	2445.1	1980.0	1796.8
3195.3	72.5°	2631.2	1942.2	1392.7	1648.5	1904.4	2195.1	2552.7	2285.2	1831.7	1695.0
1651.4	75°	1404.3	1183.3	1171.7	1433.4	1657.2	1950.9	2323.0	2128.2	1721.2	1791.0
1142.6	77.5°	956.5	837.3	979.8	1226.9	1386.8	1680.5	2078.8	1889.8	1491.5	1485.7
790.8	80°	662.9	593.1	796.6	988.5	1072.8	1413.0	1814.2	1622.3	1215.3	1133.9
488.4	82.5°	398.3	386.7	596.0	738.5	758.8	1090.3	1503.1	1360.7	994.3	866.4
290.7	85°	218.1	229.7	380.9	433.2	441.9	761.7	1177.5	1052.5	764.7	642.5
104.7	87.5°	61.1	78.5	139.6	171.5	212.2	395.4	700.7	625.1	383.8	267.5
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>
7166.8
7693.1
8027.4
8123.4
8071.0
7948.9
7780.3
7495.4
7184.3
6986.6
6823.7
6643.5
6442.9
6149.2
5768.3
5285.7
4736.2
4186.7
3759.3
3474.4
3204.0
2997.6
2724.3
2488.8
2267.8
2093.3
1956.7
1852.0
1773.5
1671.8
1849.1
1369.4
1084.5
872.2
648.4
267.5
0.0

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