

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: P944352

Luminaire Tested: **GALN-SB9B-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50842 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

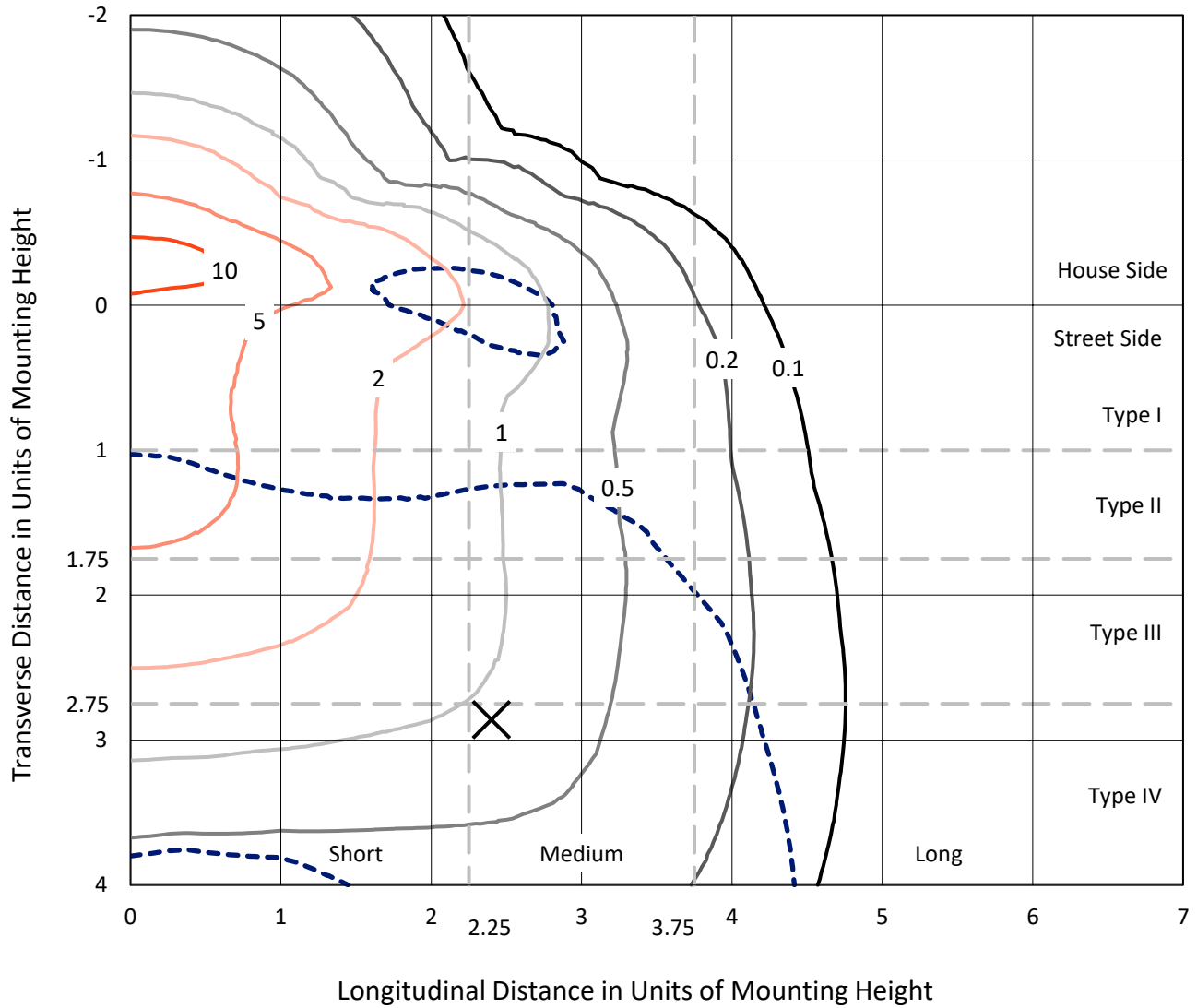
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944352
 CATALOG NUMBER: GALN-SB9B-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

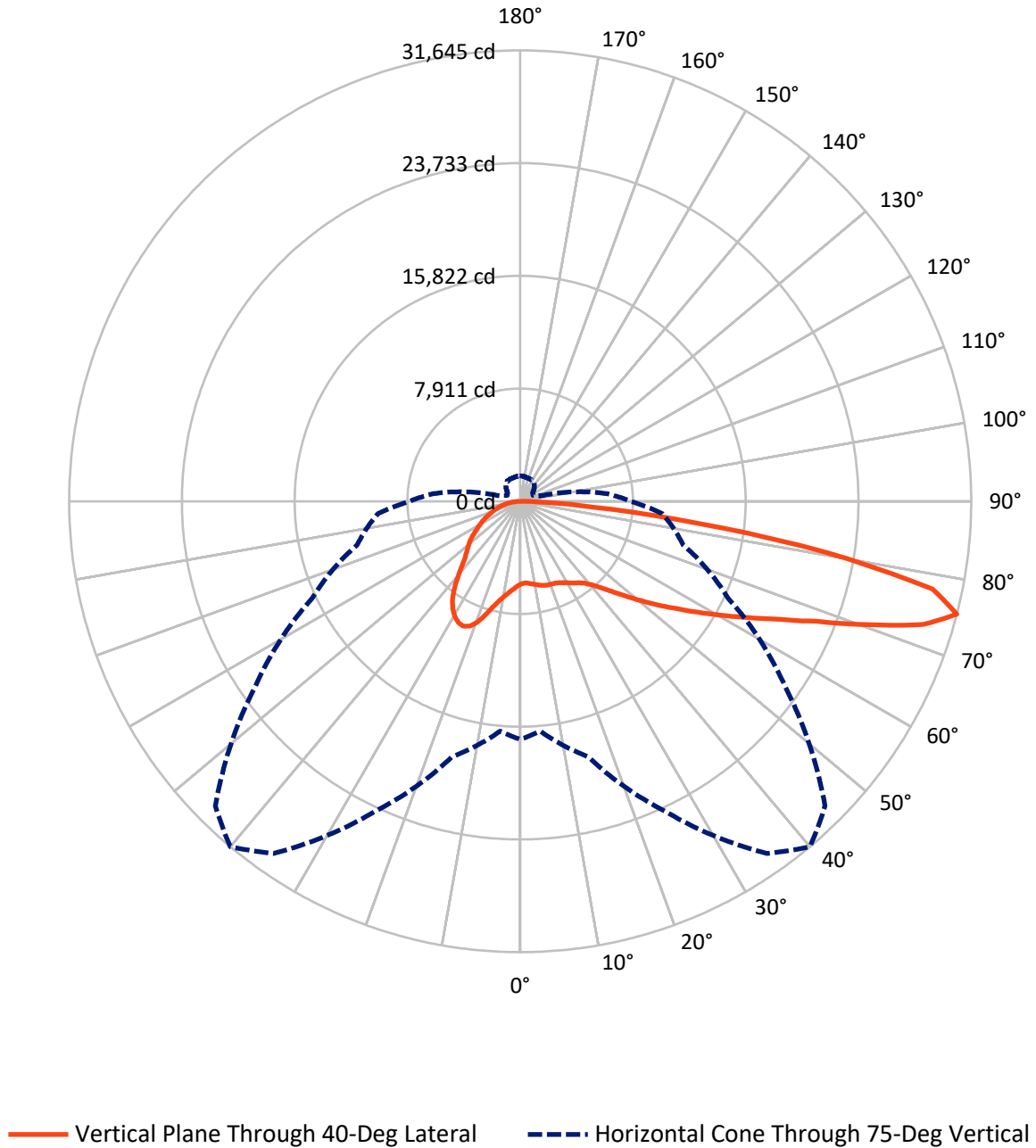
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Medium - N/A

REPORT NUMBER: P944352
CATALOG NUMBER: GALN-SB9B-735-U-SL4

Luminous Intensity Polar Plot



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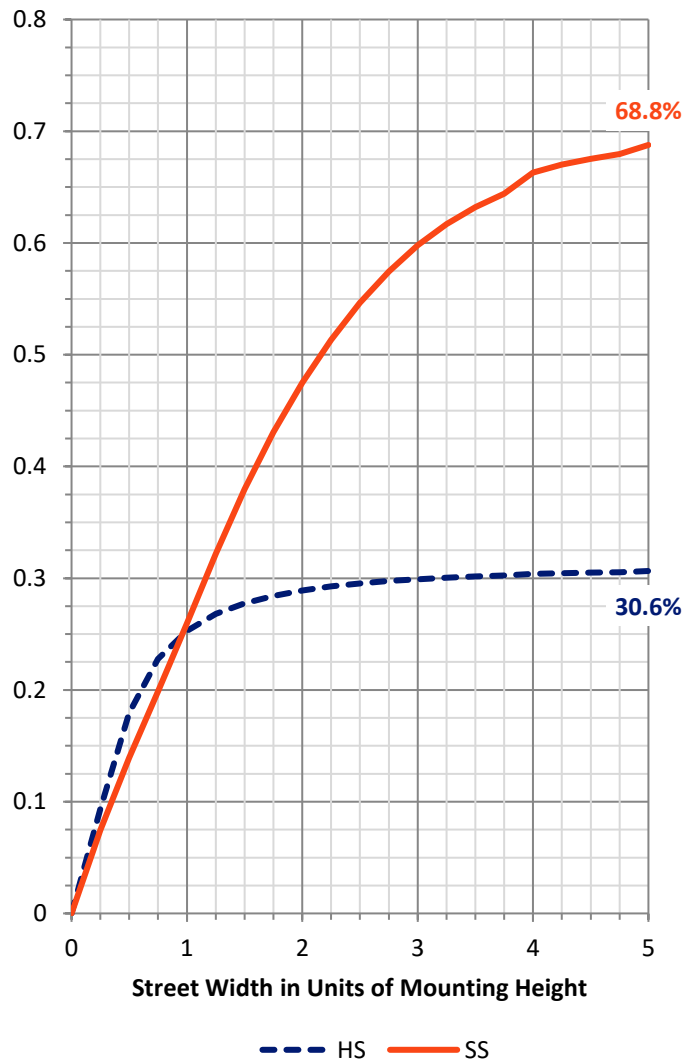
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15752.6	0.0	15752.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	35089.5	0.0	35089.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	50842.0	0.0	50842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.3	1.1
10°-20°	1948.4	3.8
20°-30°	3557.7	7.0
30°-40°	5045.8	9.9
40°-50°	6813.3	13.4
50°-60°	9165.8	18.0
60°-70°	11633.5	22.9
70°-80°	10558.1	20.8
80°-90°	1539.0	3.0
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°	50842.0	100.0
0°-180°	50842.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944352

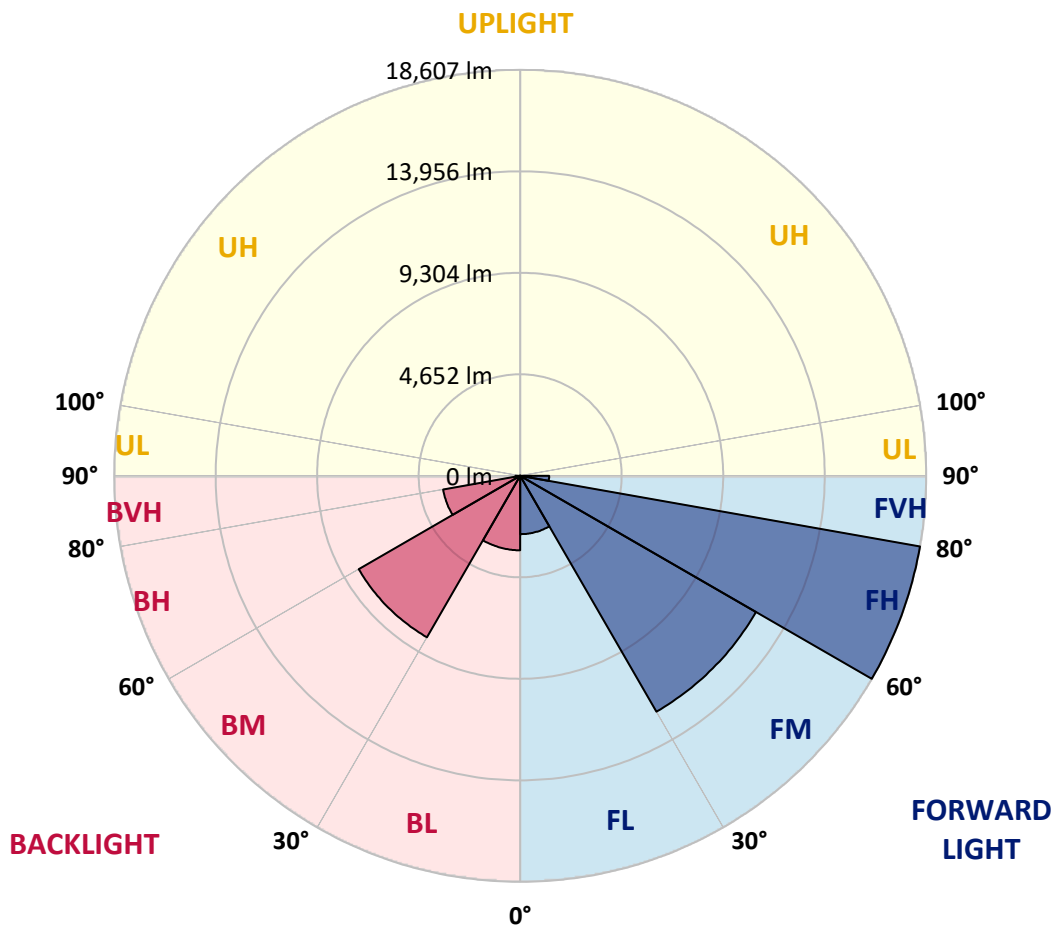
CATALOG NUMBER: GALN-SB9B-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2674.3	5.3			
FM (30°-60°)	12480.6	24.5			
FH (60°-80°)	18607.4	36.6			G5
FVH (80°-90°)	1327.1	2.6			G5
BL (0°-30°)	3412.1	6.7	B4/5000		
BM (30°-60°)	8544.3	16.8	B5		
BH (60°-80°)	3584.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	211.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



REPORT NUMBER: P944352

CATALOG NUMBER: GALN-SB9B-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5813.9	5813.9	5813.9	5813.9	5813.9	5813.9	5813.9	5813.9	5813.9	5813.9
2.5°	5724.9	5757.2	5749.1	5738.3	5738.3	5741.0	5738.3	5757.2	5776.1	5795.0
5°	5784.2	5816.5	5800.4	5786.9	5776.1	5773.4	5765.3	5762.6	5773.4	5797.7
7.5°	5900.1	5932.5	5908.2	5884.0	5862.4	5851.6	5840.8	5824.6	5816.5	5830.0
10°	6029.6	6061.9	6032.3	5989.1	5954.1	5940.6	5929.8	5913.6	5902.8	5910.9
12.5°	6159.0	6191.4	6150.9	6091.6	6045.8	6037.7	6024.2	6018.8	6016.1	6013.4
15°	6280.4	6307.3	6256.1	6186.0	6137.4	6124.0	6110.5	6118.6	6132.0	6148.2
17.5°	6374.7	6401.7	6326.2	6234.5	6188.7	6183.3	6175.2	6202.2	6239.9	6280.4
20°	6461.0	6488.0	6390.9	6266.9	6212.9	6212.9	6215.6	6272.3	6326.2	6385.5
22.5°	6582.4	6604.0	6485.3	6315.4	6237.2	6242.6	6264.2	6320.8	6388.2	6469.1
25°	6763.1	6779.2	6633.6	6407.1	6318.1	6334.3	6353.2	6380.1	6444.9	6539.2
27.5°	7054.3	7067.8	6876.3	6568.9	6434.1	6461.0	6488.0	6469.1	6498.8	6579.7
30°	7464.2	7472.3	7229.6	6822.4	6630.9	6644.4	6649.8	6571.6	6515.0	6579.7
32.5°	7949.6	7946.9	7658.3	7129.8	6854.7	6841.3	6795.4	6641.7	6509.6	6566.2
35°	8701.9	8672.2	8300.1	7561.2	7108.2	7024.6	6916.8	6719.9	6536.5	6552.7
37.5°	9947.7	9856.0	9341.0	8267.7	7485.7	7272.7	7113.6	6846.6	6595.9	6547.3
40°	11352.6	11236.7	10670.4	9235.8	8052.0	7709.6	7453.4	7027.3	6692.9	6571.6
42.5°	13019.1	12854.6	12245.2	10376.5	8769.3	8273.1	7887.5	7256.5	6835.9	6649.8
45°	15065.9	14847.4	13984.5	11662.8	9672.7	9012.0	8497.0	7604.4	7054.3	6800.8
47.5°	17134.1	17188.1	15961.1	13135.1	10756.7	9923.5	9260.1	8127.5	7372.5	7043.5
50°	19331.9	19369.6	17926.9	14766.5	11986.3	10953.6	10117.6	8712.7	7814.7	7388.7
52.5°	21046.9	21052.3	19712.1	16473.5	13267.2	12086.1	11042.5	9381.4	8327.1	7847.1
55°	22120.1	22106.7	20963.3	18088.7	14739.6	13275.3	12067.2	10141.9	8952.7	8386.4
57.5°	22899.5	22859.0	21826.2	19477.5	16309.0	14680.2	13226.8	11004.8	9691.5	9028.2
60°	23196.1	23171.8	22411.4	20677.5	17959.3	16233.5	14564.3	11970.2	10530.2	9785.9
62.5°	23309.3	23355.2	22985.7	21839.7	19725.6	17953.9	16033.9	13124.3	11474.0	10643.4
65°	23708.4	23792.0	23716.5	23360.6	21721.0	19968.3	17983.6	14496.9	12504.1	11563.0
67.5°	24498.5	24582.1	24614.5	25180.8	24158.8	22478.8	20415.9	16206.5	13709.5	12517.6
70°	24479.7	24455.4	25027.1	26628.8	27211.3	25954.7	23694.9	18309.9	15146.8	13310.4
72.5°	22281.9	22087.8	23438.8	26612.7	29751.5	29584.3	27699.4	21022.6	16387.2	13407.5
75°	16716.2	16198.4	18584.9	23983.5	30174.9	31644.5	30245.0	22705.3	16093.3	11846.1
77.5°	7148.7	6628.2	9440.8	17754.4	27006.4	29581.6	27909.7	19809.2	12846.6	7833.6
80°	1871.4	1868.7	2853.0	8049.3	18366.5	21845.1	19164.7	12792.6	7340.1	2799.1
82.5°	773.9	755.0	1049.0	3130.7	8974.3	12258.7	10004.4	5706.0	2650.7	757.7
85°	288.5	285.8	509.7	1081.3	3165.8	5056.1	3659.3	1458.9	660.7	369.4
87.5°	80.9	78.2	110.6	374.8	771.2	1170.3	625.6	240.0	186.1	145.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944352
 CATALOG NUMBER: GALN-SB9B-735-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5813.9	0°	5813.9	5813.9	5813.9	5813.9	5813.9	5813.9	5813.9	5813.9	5813.9	5813.9
5824.6	2.5°	5832.7	5846.2	5870.5	5889.4	5913.6	5940.6	5978.3	6002.6	6026.9	6043.1
5838.1	5°	5857.0	5886.7	5948.7	6010.7	6083.5	6150.9	6229.1	6285.8	6331.6	6345.1
5886.7	7.5°	5910.9	5959.5	6064.6	6169.8	6285.8	6396.3	6509.6	6606.6	6684.8	6714.5
5972.9	10°	6005.3	6070.0	6218.3	6366.7	6520.4	6690.2	6835.9	6976.1	7086.6	7132.5
6075.4	12.5°	6124.0	6204.9	6399.0	6604.0	6817.0	7051.6	7240.3	7412.9	7550.5	7612.5
6218.3	15°	6277.7	6382.8	6630.9	6906.0	7218.8	7545.1	7785.1	7976.5	8130.2	8205.7
6366.7	17.5°	6444.9	6585.1	6897.9	7313.2	7760.8	8189.5	8470.0	8610.2	8769.3	8842.1
6504.2	20°	6606.6	6779.2	7226.9	7830.9	8426.8	8882.6	9109.1	9146.8	9157.6	9165.7
6633.6	22.5°	6773.8	7005.7	7639.4	8483.5	9122.6	9438.1	9470.4	9308.6	9082.1	8977.0
6760.4	25°	6957.2	7264.6	8178.8	9203.5	9721.2	9759.0	9510.9	9117.2	8688.4	8491.6
6862.8	27.5°	7135.2	7563.9	8825.9	9891.1	10152.7	9821.0	9287.1	8728.9	8211.1	8003.5
6935.6	30°	7313.2	7906.4	9540.5	10492.4	10349.5	9667.3	8933.8	8310.9	7790.5	7572.0
7000.4	32.5°	7493.8	8305.5	10363.0	10926.6	10314.5	9341.0	8494.3	7841.7	7383.3	7154.1
7057.0	35°	7698.8	8796.3	11142.3	11163.9	10079.9	8861.0	7914.5	7280.8	6881.7	6698.3
7124.4	37.5°	7965.7	9419.2	11829.9	11223.2	9670.0	8157.2	7194.5	6617.4	6288.5	6204.9
7224.2	40°	8297.4	10168.8	12355.8	11128.8	9063.2	7302.4	6407.1	5946.0	5759.9	5778.8
7359.0	42.5°	8728.9	11007.5	12725.2	10886.1	8219.2	6420.6	5716.8	5511.8	5600.8	5676.3
7561.2	45°	9289.8	11878.5	12954.4	10473.6	7264.6	5673.6	5309.6	5358.1	5425.5	5433.6
7887.5	47.5°	10007.0	12760.3	13105.4	9850.6	6291.1	5147.8	5050.7	5061.5	5048.0	4991.4
8375.6	50°	10902.3	13617.8	13240.3	9025.5	5463.3	4818.8	4689.4	4651.6	4465.6	4282.2
9025.5	52.5°	11921.6	14405.2	13296.9	8000.8	4818.8	4543.8	4333.4	4096.1	3748.3	3691.6
9842.6	55°	13054.2	15133.3	13151.3	6741.5	4276.8	4190.5	3872.3	3586.5	3548.7	3500.2
10918.5	57.5°	14407.9	15918.0	12854.6	5336.6	3721.3	3777.9	3467.8	3500.2	3432.8	3357.3
12301.8	60°	15888.3	16729.7	12334.2	4055.7	3146.9	3262.9	3362.6	3360.0	3341.1	3279.1
13760.7	62.5°	17220.4	17263.6	11309.5	3106.5	2642.7	2863.8	3136.1	3133.4	3117.3	3082.2
15284.3	65°	18013.2	17182.7	9599.9	2445.8	2227.4	2534.8	2828.7	2850.3	2853.0	2850.3
16430.3	67.5°	17873.0	16236.2	7253.8	1946.9	1884.9	2200.4	2524.0	2553.7	2575.2	2580.6
16575.9	70°	16287.4	14157.1	4729.8	1553.2	1580.2	1906.5	2235.5	2265.1	2284.0	2305.6
14383.6	72.5°	12695.6	10408.8	2707.4	1256.6	1313.2	1653.0	1949.6	1984.7	1995.5	2035.9
10009.7	75°	7736.5	6121.3	1461.6	989.6	1078.6	1413.0	1666.5	1706.9	1725.8	1774.4
4915.9	77.5°	3678.2	2650.7	833.2	771.2	868.3	1154.1	1407.6	1453.5	1402.2	1429.2
1356.4	80°	1243.1	984.3	525.8	587.9	663.4	900.7	1127.2	1173.0	1065.2	1059.8
450.3	82.5°	434.2	399.1	334.4	391.0	428.8	644.5	852.1	911.4	792.8	790.1
202.2	85°	169.9	161.8	186.1	213.0	256.2	396.4	560.9	590.6	488.1	393.7
59.3	87.5°	35.1	37.8	45.8	48.5	78.2	137.5	202.2	248.1	196.9	167.2
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>
5813.9
6032.3
6350.5
6717.2
7135.2
7612.5
8200.3
8839.4
9187.3
9006.6
8521.2
8027.8
7596.3
7183.7
6738.8
6264.2
5843.5
5746.4
5487.6
5034.5
4306.5
3710.5
3508.3
3343.8
3257.5
3068.7
2850.3
2586.0
2316.4
2052.1
1779.8
1407.6
1049.0
752.3
388.3
153.7
0.0

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