

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: P951787

Luminaire Tested: **GALN-SB5D-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45909 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

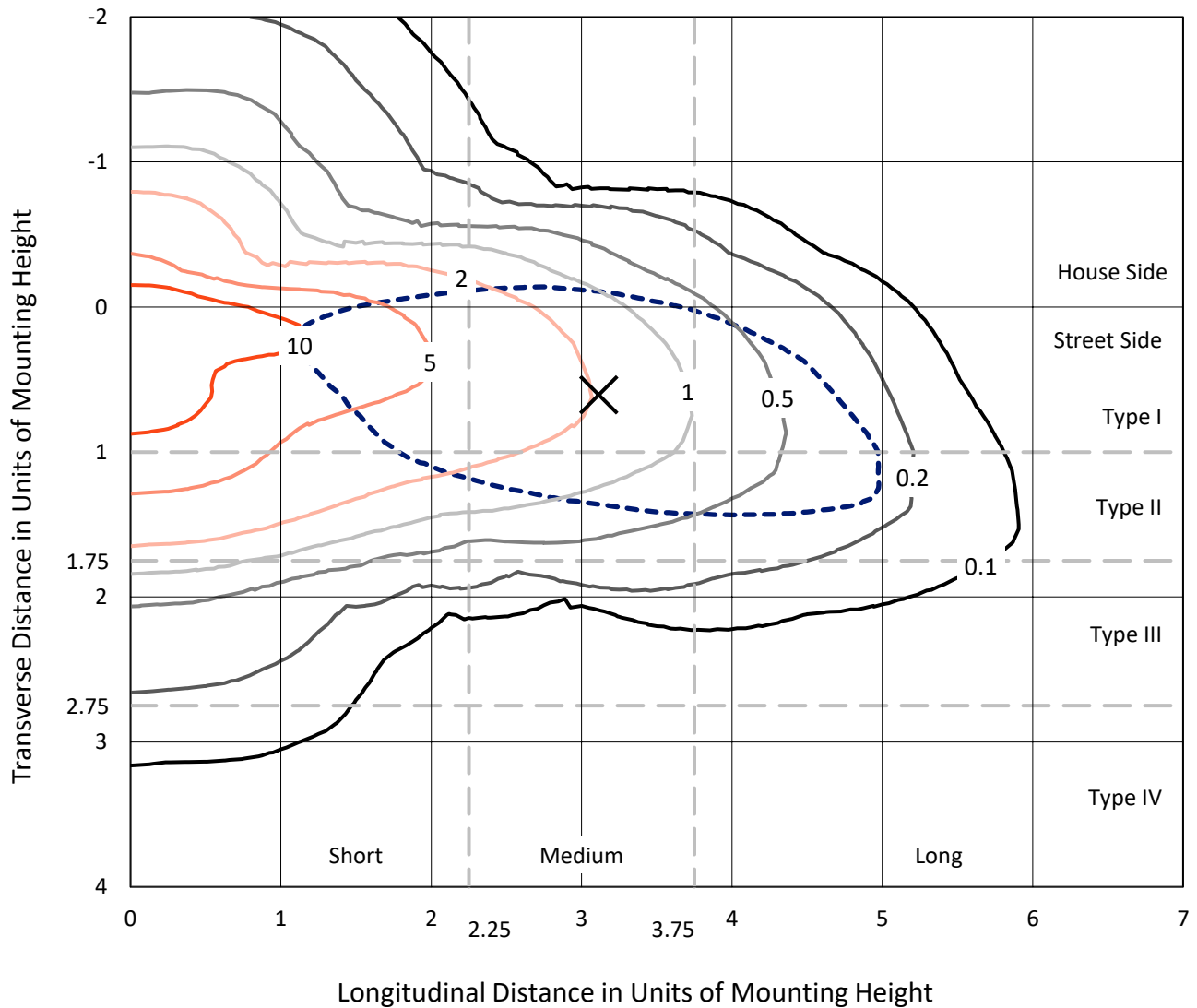
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951787
 CATALOG NUMBER: GALN-SB5D-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

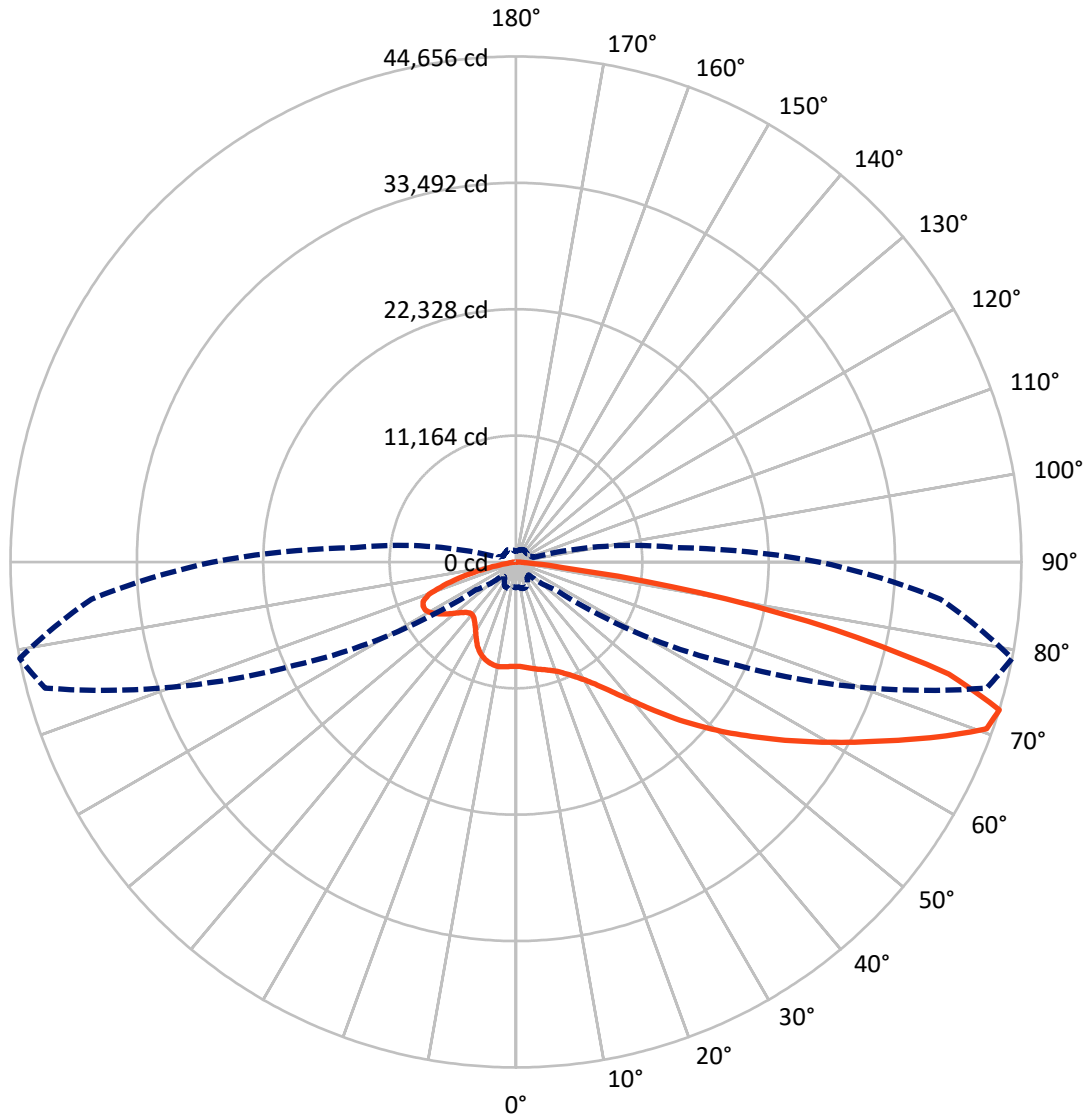
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P951787
CATALOG NUMBER: GALN-SB5D-830-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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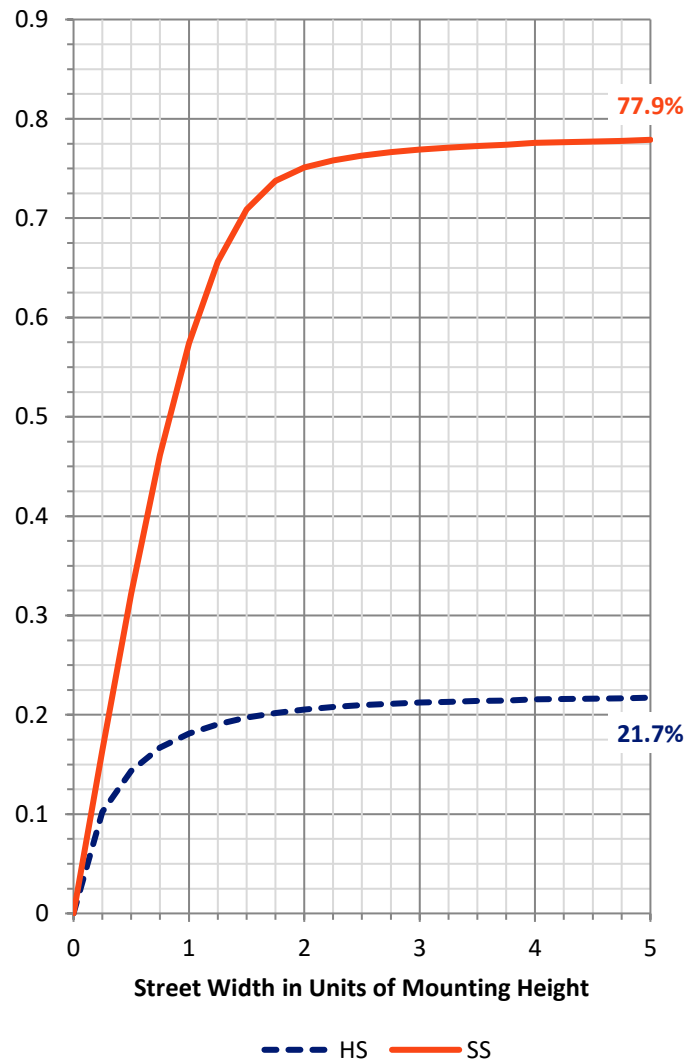
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10102.5	0.0	10102.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	35806.5	0.0	35806.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	45909.0	0.0	45909.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.5	1.8
10°-20°	2187.1	4.8
20°-30°	3529.1	7.7
30°-40°	5296.7	11.5
40°-50°	7513.6	16.4
50°-60°	9488.7	20.7
60°-70°	9637.1	21.0
70°-80°	6568.1	14.3
80°-90°	852.2	1.9
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°	45909.0	100.0
0°-180°	45909.0	100.0



REPORT NUMBER: P951787

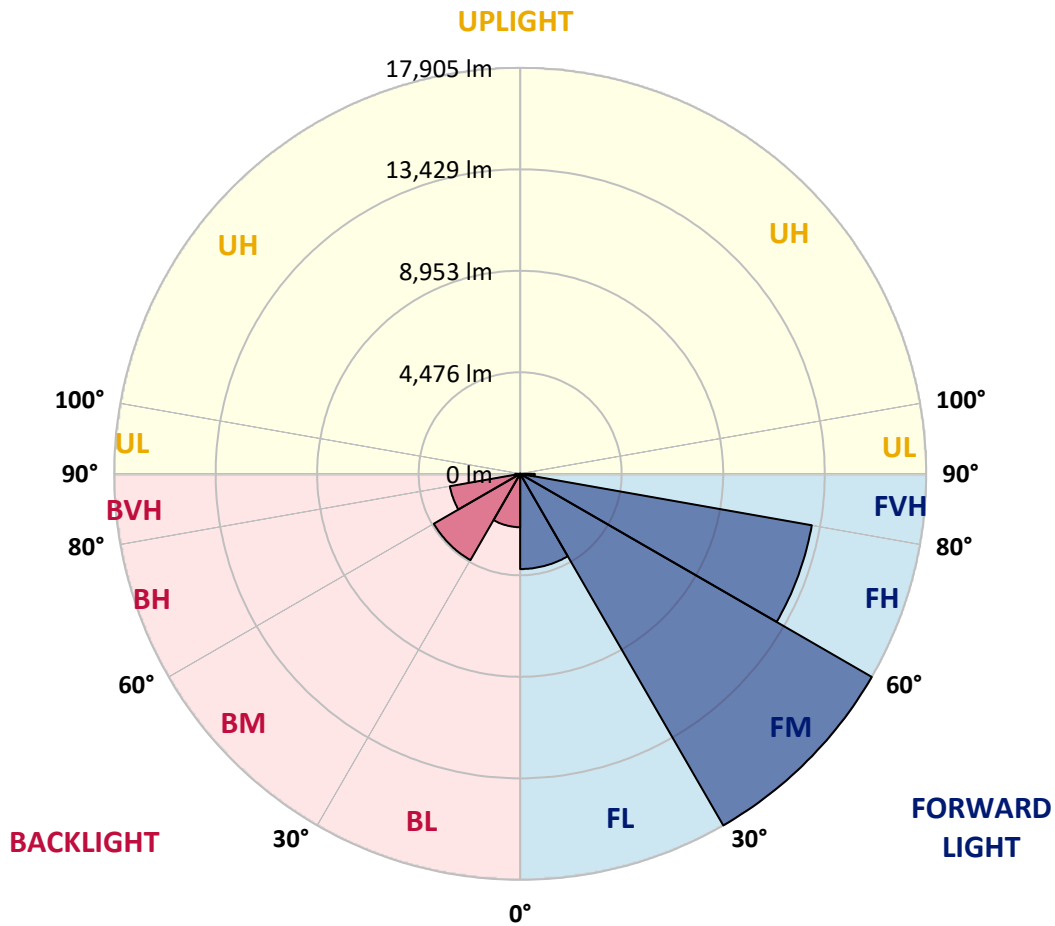
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4199.6	9.1			
FM (30°-60°)	17905.4	39.0			
FH (60°-80°)	13059.6	28.4			G5
FVH (80°-90°)	641.9	1.4			G4/750
BL (0°-30°)	2353.2	5.1	B3/2500		
BM (30°-60°)	4393.5	9.6	B3/5000		
BH (60°-80°)	3145.6	6.9	B4/5000		G4/5000
BVH (80°-90°)	210.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



REPORT NUMBER: P951787
 CATALOG NUMBER: GALN-SB5D-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	9215.8	9215.8	9215.8	9215.8	9215.8	9215.8	9215.8	9215.8	9215.8	9215.8
2.5°	9220.7	9176.9	9203.7	9193.9	9206.1	9220.7	9225.5	9232.8	9257.1	9254.6
5°	9201.2	9157.5	9193.9	9181.8	9213.4	9247.4	9276.5	9303.2	9342.1	9359.1
7.5°	9159.9	9130.8	9167.2	9203.7	9261.9	9312.9	9354.2	9414.9	9470.8	9480.5
10°	8919.5	8897.7	8982.7	9077.4	9237.7	9376.1	9465.9	9536.3	9597.1	9606.8
12.5°	8669.4	8642.7	8737.4	8866.1	9125.9	9376.1	9565.5	9657.8	9711.2	9742.8
15°	8628.1	8606.3	8659.7	8771.4	8987.5	9310.5	9633.5	9803.5	9849.6	9886.0
17.5°	8827.3	8786.0	8807.8	8846.7	8973.0	9249.8	9686.9	9968.6	10039.0	10077.9
20°	9288.6	9230.4	9196.4	9118.7	9096.8	9259.5	9682.0	10167.7	10260.0	10308.6
22.5°	9903.0	9864.2	9791.3	9594.6	9380.9	9378.5	9774.3	10422.7	10595.1	10641.3
25°	10646.1	10587.8	10495.6	10228.4	9818.0	9614.1	9929.7	10748.1	11037.1	11049.2
27.5°	11500.9	11413.5	11287.2	10935.1	10381.4	9983.2	10167.7	11122.1	11544.6	11539.8
30°	12401.9	12314.4	12180.9	11753.5	11056.5	10481.0	10498.0	11525.2	12146.9	12120.2
32.5°	13060.0	12994.4	12967.7	12637.4	11833.6	11068.7	10876.8	11972.0	12890.0	12865.7
35°	13565.1	13480.1	13511.6	13344.1	12681.1	11726.8	11340.6	12503.9	13793.3	13790.9
37.5°	14065.3	13990.0	14016.8	13905.0	13465.5	12562.1	11906.5	13154.7	14912.8	14966.3
40°	14521.9	14441.7	14548.6	14444.2	14075.0	13450.9	12550.0	13890.5	16209.6	16311.6
42.5°	14796.3	14733.1	14910.4	14912.8	14604.4	14201.3	13256.7	14701.6	17710.4	17938.6
45°	14891.0	14869.1	15136.2	15192.1	15073.1	14636.0	13892.9	15585.5	19327.7	19735.6
47.5°	14789.0	14747.7	15116.8	15323.2	15417.9	14840.0	14419.9	16542.3	20979.0	21576.4
50°	14274.2	14194.0	14742.8	15177.5	15515.1	14973.5	14951.7	17647.2	22856.1	23509.4
52.5°	13348.9	13288.2	13912.3	14667.6	15301.4	15039.1	15549.1	18854.1	24638.6	25483.7
55°	12166.3	12086.2	12773.4	13759.3	14769.6	15017.3	16146.5	20204.3	26741.6	27598.8
57.5°	10291.6	10131.3	11000.7	12166.3	13902.6	14990.5	16768.1	21547.2	28878.6	29905.8
60°	7557.2	7319.2	8385.3	9767.0	12207.6	14730.7	17537.9	23052.8	31443.0	32368.2
62.5°	4400.3	4261.8	4958.8	6248.3	9201.2	13200.8	17970.2	24803.7	33963.7	34935.0
65°	3416.8	3377.9	3438.6	3538.2	5121.5	9883.6	16637.0	26510.9	37169.2	37849.1
67.5°	3125.4	3096.2	3122.9	2935.9	2598.4	5505.2	13162.0	26943.1	40602.9	41015.8
70°	2778.1	2744.1	2831.5	2671.2	2044.7	2503.7	8504.3	25374.4	43334.9	44109.5
72.5°	2263.3	2224.4	2428.4	2355.6	1721.7	1607.6	4271.6	21646.8	43048.3	44655.9
75°	1738.7	1716.9	1959.7	2020.4	1403.6	1265.2	2049.6	16090.6	37883.1	39502.9
77.5°	1350.2	1333.2	1457.0	1678.0	1131.6	981.1	1260.3	10206.6	28548.3	28832.4
80°	1012.6	964.1	1078.2	1299.2	881.5	716.4	854.8	5952.0	18045.5	16357.7
82.5°	633.8	609.5	704.2	866.9	621.7	493.0	556.1	3288.1	7231.8	4259.4
85°	361.8	352.1	383.7	495.4	337.5	284.1	318.1	1452.2	1321.1	908.2
87.5°	145.7	140.8	174.8	221.0	123.8	104.4	111.7	349.7	291.4	269.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951787
 CATALOG NUMBER: GALN-SB5D-830-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9215.8	0°	9215.8	9215.8	9215.8	9215.8	9215.8	9215.8	9215.8	9215.8	9215.8	9215.8
9252.2	2.5°	9242.5	9242.5	9208.5	9155.1	9094.4	9055.5	8992.4	8975.4	8909.8	8890.4
9334.8	5°	9354.2	9334.8	9230.4	9079.8	8873.4	8684.0	8475.1	8344.0	8159.4	8093.9
9497.5	7.5°	9495.1	9441.6	9261.9	8931.7	8499.4	8074.4	7632.5	7297.4	6976.8	6862.7
9631.1	10°	9623.8	9548.5	9242.5	8664.5	7916.6	7180.8	6476.6	5983.6	5609.6	5456.6
9779.2	12.5°	9752.5	9614.1	9113.8	8220.1	7088.5	6090.4	5340.1	4956.4	4725.7	4541.1
9900.6	15°	9873.9	9679.6	8914.7	7625.2	6180.3	5167.6	4614.0	4308.0	4123.4	4002.0
10077.9	17.5°	10014.7	9735.5	8616.0	6870.0	5315.8	4529.0	4077.3	3892.7	3856.3	3841.7
10320.7	20°	10211.4	9786.5	8222.6	6024.9	4679.5	4019.0	3785.9	3768.9	3766.5	3759.2
10612.1	22.5°	10422.7	9847.2	7702.9	5257.5	4138.0	3700.9	3659.6	3625.6	3603.8	3601.3
10964.2	25°	10672.8	9866.6	7052.1	4628.5	3676.6	3550.3	3501.8	3450.8	3436.2	3436.2
11364.9	27.5°	10915.7	9801.0	6294.4	4082.1	3416.8	3411.9	3348.8	3331.8	3329.3	3336.6
11821.5	30°	11158.5	9677.2	5541.6	3577.0	3266.2	3266.2	3244.3	3256.5	3266.2	3290.5
12448.0	32.5°	11486.4	9546.1	4912.7	3203.1	3135.1	3110.8	3132.6	3156.9	3166.6	3198.2
13271.2	35°	11967.2	9453.8	4412.4	2999.1	2999.1	2967.5	2979.7	2974.8	2952.9	2938.4
14266.9	37.5°	12603.4	9448.9	3999.6	2904.4	2884.9	2880.1	2882.5	2850.9	2766.0	2664.0
15471.4	40°	13368.4	9580.1	3681.5	2838.8	2824.2	2853.4	2838.8	2753.8	2520.7	2343.4
16952.7	42.5°	14395.6	9954.0	3477.5	2758.7	2802.4	2838.8	2780.5	2486.7	2328.8	2209.8
18640.4	45°	15604.9	10561.1	3373.1	2673.7	2761.1	2804.8	2523.1	2394.4	2268.1	2124.9
20481.2	47.5°	16974.5	11326.1	3348.8	2593.5	2668.8	2695.5	2413.8	2355.6	2212.3	2056.9
22331.6	50°	18465.6	12231.9	3414.3	2498.8	2535.3	2443.0	2377.4	2324.0	2175.9	2022.9
24228.2	52.5°	20007.6	13229.9	3545.5	2370.1	2401.7	2299.7	2362.8	2316.7	2154.0	1947.6
26187.9	55°	21522.9	14235.3	3671.7	2219.6	2265.7	2171.0	2321.6	2287.6	2054.4	1821.3
28278.8	57.5°	23062.6	15235.8	3795.6	2086.0	2134.6	2047.1	2256.0	2209.8	1942.7	1704.7
30561.5	60°	24662.9	16207.2	3853.9	1957.3	1991.3	1933.0	2156.4	2076.3	1816.4	1585.7
32805.3	62.5°	26161.2	17015.8	3759.2	1828.6	1850.4	1826.2	2025.3	1918.4	1690.2	1452.2
35143.9	65°	27664.4	17496.7	3467.8	1702.3	1707.2	1695.0	1840.7	1748.5	1542.0	1335.6
37191.0	67.5°	29026.7	17766.2	3003.9	1566.3	1554.2	1549.3	1668.3	1563.9	1398.8	1219.1
38747.6	70°	29315.7	17081.4	2294.8	1406.0	1406.0	1393.9	1478.9	1372.0	1240.9	1095.2
37633.0	72.5°	26775.6	14368.9	1629.5	1223.9	1243.3	1219.1	1289.5	1199.6	1080.6	983.5
32433.8	75°	21590.9	10536.8	1185.1	1036.9	1070.9	1029.6	1095.2	1032.1	930.1	927.7
22351.0	77.5°	14835.1	6515.4	859.7	854.8	879.1	825.7	900.9	866.9	774.7	733.4
9728.2	80°	6330.9	2598.4	626.5	660.5	660.5	612.0	699.4	709.1	629.0	609.5
1877.2	82.5°	1260.3	738.2	439.5	454.1	427.4	412.8	495.4	548.8	757.7	842.7
565.8	85°	378.8	272.0	264.7	247.7	218.6	221.0	291.4	551.2	680.0	388.5
187.0	87.5°	104.4	68.0	70.4	55.9	46.1	60.7	99.6	417.7	228.3	97.1
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>
9215.8
8922.0
8142.4
6877.2
5490.6
4601.8
4023.9
3851.4
3783.5
3628.0
3450.8
3356.1
3307.5
3224.9
2972.4
2666.4
2338.6
2205.0
2115.1
2044.7
2005.9
1933.0
1809.2
1699.9
1578.5
1449.8
1321.1
1204.5
1090.4
954.4
835.4
687.2
609.5
845.1
335.1
82.6
0.0

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