

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: P943249

Luminaire Tested: **GALN-SB7C-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943249
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-SB7C-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50352 lumens
Efficiency: N/A
Efficacy: 143.7 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

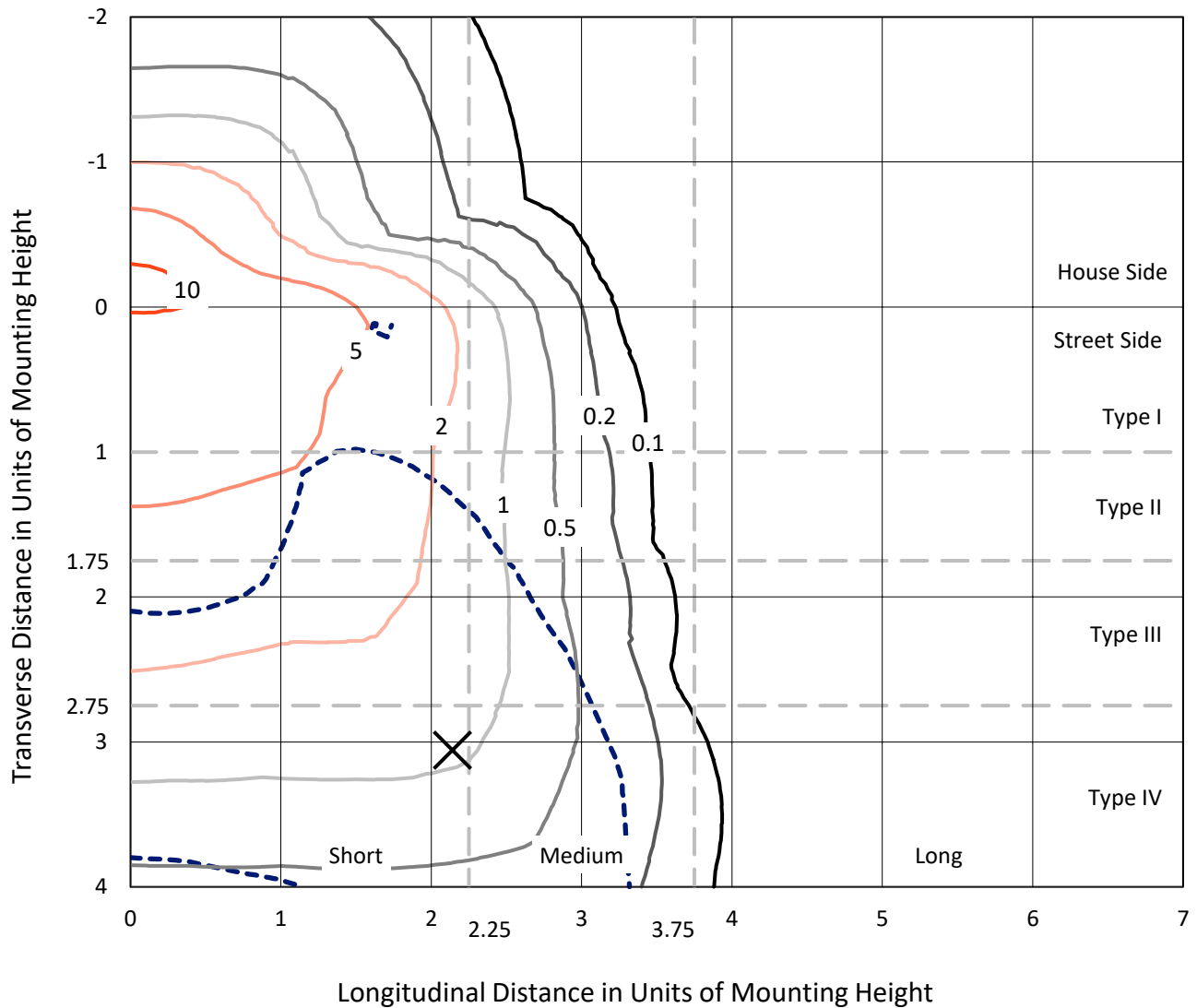
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

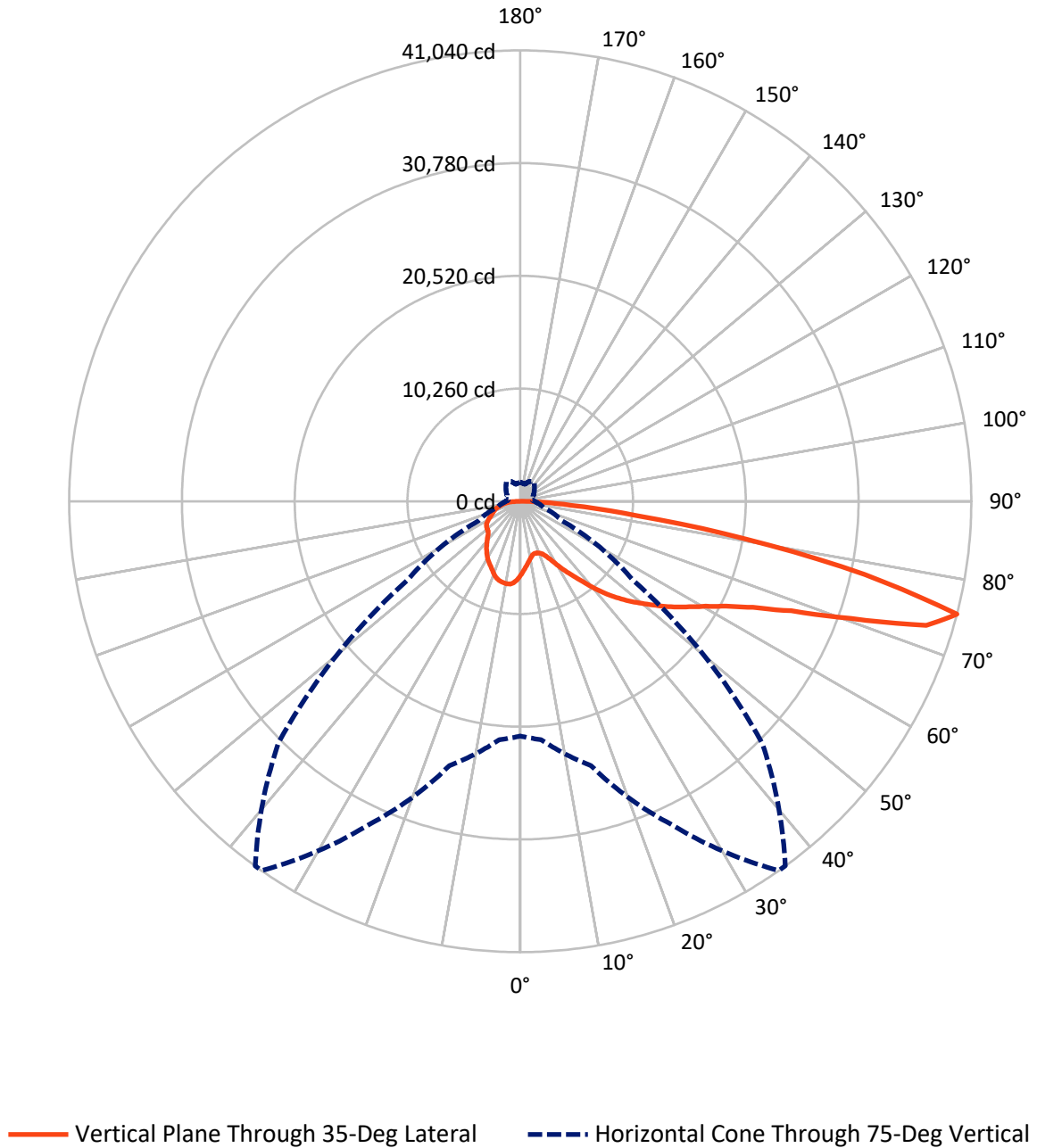
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11982.5	0.0	11982.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	38369.5	0.0	38369.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	50352.0	0.0	50352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.3	1.3
10°-20°	1832.4	3.6
20°-30°	3077.1	6.1
30°-40°	4782.3	9.5
40°-50°	7098.1	14.1
50°-60°	9799.4	19.5
60°-70°	11888.9	23.6
70°-80°	9825.3	19.5
80°-90°	1413.2	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°	50352.0	100.0
0°-180°	50352.0	100.0

Coefficient of Utilization



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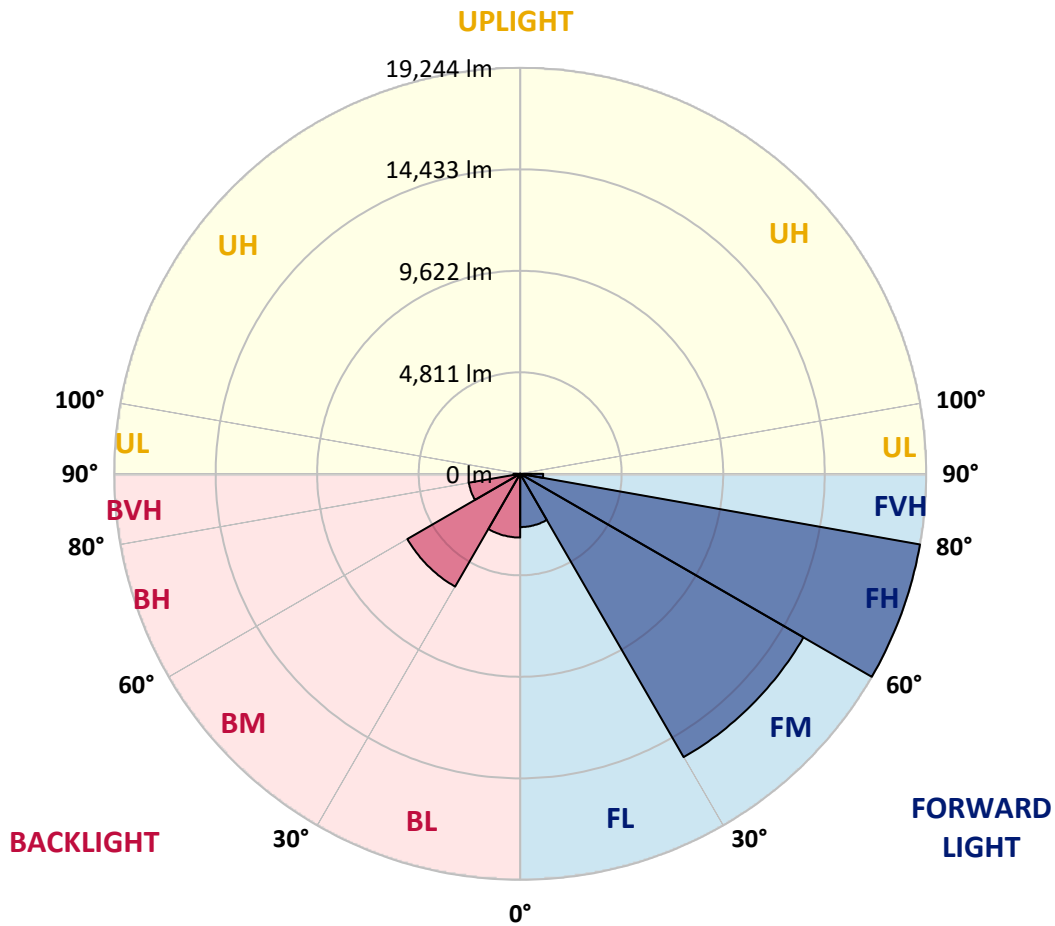
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2525.1	5.0			
FM (30°-60°)	15505.7	30.8			
FH (60°-80°)	19243.8	38.2			G5
FVH (80°-90°)	1095.0	2.2			G5
BL (0°-30°)	3019.8	6.0	B4/5000		
BM (30°-60°)	6174.1	12.3	B4/8500		
BH (60°-80°)	2470.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	318.2	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°	6709.7	6709.7	6709.7	6709.7	6709.7	6709.7	6709.7	6709.7	6709.7	6709.7
2.5°	6187.1	6225.2	6241.6	6233.4	6274.2	6268.8	6325.9	6396.7	6494.7	6590.0
5°	5710.8	5751.6	5787.0	5819.6	5898.6	5923.1	6012.9	6149.0	6328.7	6511.0
7.5°	5267.1	5302.5	5356.9	5416.8	5550.2	5574.7	5724.4	5936.7	6187.1	6453.9
10°	4905.1	4940.4	4997.6	5065.7	5231.7	5261.6	5452.2	5735.3	6061.9	6399.4
12.5°	4749.9	4760.8	4793.5	4861.5	5005.8	5024.8	5234.4	5558.3	5939.4	6358.6
15°	4741.7	4763.5	4766.2	4801.6	4921.4	4929.6	5122.8	5444.0	5863.2	6350.4
17.5°	4823.4	4839.7	4815.2	4837.0	4937.7	4951.3	5103.8	5389.6	5838.7	6385.8
20°	5041.2	5054.8	4981.3	4951.3	5024.8	5035.7	5185.4	5425.0	5863.2	6459.3
22.5°	5503.9	5512.1	5332.4	5209.9	5215.4	5220.8	5351.5	5569.2	5958.5	6592.7
25°	6225.2	6219.8	5934.0	5697.2	5561.1	5531.1	5618.2	5803.3	6119.1	6769.6
27.5°	7069.0	7028.2	6742.4	6388.5	6091.8	6048.3	6029.2	6108.2	6347.7	7003.7
30°	8021.8	7983.6	7676.1	7213.3	6802.3	6731.5	6551.9	6511.0	6688.0	7322.2
32.5°	9067.0	9042.5	8675.0	8114.3	7564.5	7482.8	7180.7	7071.8	7210.6	7804.0
35°	9943.5	9921.7	9616.8	9039.8	8367.4	8266.7	7959.1	7836.7	7907.4	8421.9
37.5°	10735.6	10724.7	10463.4	10008.8	9314.7	9192.2	8846.5	8805.7	8792.1	9235.8
40°	11470.5	11443.3	11171.1	10931.6	10417.1	10305.5	10000.6	9965.3	9861.8	10237.5
42.5°	12284.4	12213.6	11818.9	11707.3	11568.5	11476.0	11293.6	11299.0	11070.4	11367.1
45°	12948.6	12907.8	12502.2	12436.8	12586.6	12548.4	12706.3	12747.2	12303.5	12551.2
47.5°	13661.7	13623.6	13280.7	13234.4	13640.0	13650.9	14208.9	14222.5	13506.6	13781.5
50°	14541.0	14486.5	14146.3	14203.4	14658.0	14698.8	15719.6	15627.0	14614.4	15030.9
52.5°	15120.7	15153.4	15079.9	15172.5	15793.1	15831.2	17205.8	16969.0	15711.4	16264.0
55°	15548.1	15613.4	15842.1	16054.4	16990.8	17028.9	18607.6	18245.6	16620.6	17407.2
57.5°	16097.9	16005.4	16432.7	16846.5	18128.6	18229.3	19971.4	19476.0	17426.3	18392.6
60°	16887.3	16822.0	17154.1	17766.5	19402.5	19563.1	21414.0	20583.8	18017.0	19173.8
62.5°	18487.9	18324.5	18376.3	18917.9	21008.4	21220.8	23041.8	21550.1	18310.9	19478.7
65°	20880.5	20600.1	20338.8	20714.5	23270.4	23480.0	24879.1	22309.6	18202.1	18888.0
67.5°	23893.8	23616.1	23294.9	23648.8	26602.2	26768.2	27146.6	22736.9	17344.6	16612.4
70°	26379.0	26275.5	26659.3	28115.6	31923.7	31929.1	30053.7	22383.1	14995.5	11778.1
72.5°	26049.6	25987.0	28009.4	32511.6	38630.7	38486.4	32805.6	19704.6	10101.4	5313.4
75°	21370.5	21776.0	24909.1	32432.7	41039.7	41020.6	31120.7	12526.7	4178.3	2202.1
77.5°	11459.6	12102.0	16171.4	23945.5	32038.0	32519.8	21879.5	4382.4	1793.8	1410.0
80°	3737.3	4298.0	6445.7	12191.9	20817.9	20728.1	9377.3	1720.3	1227.6	999.0
82.5°	1586.9	1652.3	2879.9	5757.0	10683.9	10517.8	2986.0	988.1	862.9	683.2
85°	620.6	694.1	1271.2	2662.1	4627.4	4526.7	1077.9	490.0	552.6	446.4
87.5°	204.2	247.7	454.6	911.9	1439.9	1388.2	264.0	168.8	239.5	204.2
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°
6709.7	0°	6709.7	6709.7	6709.7	6709.7	6709.7	6709.7	6709.7	6709.7	6709.7	6709.7
6728.8	2.5°	6766.9	6810.5	6862.2	6938.4	7003.7	7058.2	7115.3	7150.7	7164.3	7205.1
6739.7	5°	6815.9	6911.2	7039.1	7164.3	7286.8	7360.3	7425.6	7458.3	7488.2	7510.0
6769.6	7.5°	6897.6	7020.1	7221.5	7384.8	7488.2	7548.1	7591.7	7580.8	7591.7	7597.1
6802.3	10°	6968.3	7139.8	7379.4	7534.5	7613.5	7616.2	7605.3	7567.2	7548.1	7550.8
6851.3	12.5°	7052.7	7243.3	7501.8	7632.5	7654.3	7594.4	7548.1	7482.8	7458.3	7447.4
6924.8	15°	7167.0	7384.8	7635.2	7684.2	7629.8	7553.6	7474.6	7368.5	7314.0	7270.5
7050.0	17.5°	7305.9	7545.4	7738.7	7703.3	7586.2	7461.0	7333.1	7172.5	7060.9	7014.6
7221.5	20°	7499.1	7714.2	7817.6	7662.4	7485.5	7295.0	7077.2	6881.2	6777.8	6731.5
7439.2	22.5°	7733.2	7940.1	7893.8	7591.7	7341.2	7036.4	6764.2	6619.9	6568.2	6535.5
7719.6	25°	8013.6	8190.5	7948.3	7488.2	7104.4	6693.4	6483.8	6437.5	6413.0	6388.5
8062.6	27.5°	8378.3	8473.6	7989.1	7335.8	6734.2	6328.7	6252.4	6260.6	6252.4	6211.6
8538.9	30°	8860.1	8841.1	8027.2	7088.1	6309.6	5999.3	6004.7	6040.1	6045.6	6018.4
9203.1	32.5°	9494.4	9301.1	8046.2	6766.9	5904.0	5710.8	5716.2	5754.3	5781.5	5735.3
10071.4	35°	10262.0	9837.3	8016.3	6364.0	5591.0	5435.8	5395.0	5405.9	5414.1	5370.5
11124.8	37.5°	11157.5	10438.9	7882.9	5917.6	5332.4	5166.4	5079.3	5005.8	4962.2	4921.4
12317.1	40°	12140.1	11094.9	7637.9	5482.1	5043.9	4880.6	4749.9	4611.1	4464.1	4409.6
13580.1	42.5°	13169.1	11770.0	7341.2	5065.7	4711.8	4578.4	4439.6	4238.2	4017.7	3906.1
14892.1	45°	14236.1	12461.3	7050.0	4654.6	4371.5	4314.4	4153.8	3911.5	3672.0	3530.4
16206.8	47.5°	15281.3	13114.6	6622.6	4240.9	4053.1	4115.7	3990.5	3767.3	3500.5	3277.3
17510.7	50°	16280.3	13727.1	5923.1	3821.7	3794.5	4055.8	3936.0	3614.8	3310.0	3024.1
18790.0	52.5°	17271.1	14222.5	5027.5	3440.6	3655.7	4039.5	3865.2	3511.4	3138.5	2839.1
19993.1	55°	18112.2	14478.3	4164.7	3114.0	3454.2	3900.6	3780.9	3388.9	2896.2	2577.7
20817.9	57.5°	18591.3	14271.5	3446.1	2792.8	3176.6	3672.0	3636.6	3127.6	2607.7	2362.7
20978.5	60°	18384.4	13433.1	2858.1	2512.4	2912.5	3424.3	3386.2	2869.0	2387.2	2155.8
20118.3	62.5°	17243.9	11835.3	2392.6	2267.4	2673.0	3171.1	3135.8	2670.3	2218.4	1995.2
17834.6	65°	14946.5	9627.7	2030.6	2063.3	2430.8	2866.3	2918.0	2504.2	2085.1	1867.3
13797.8	67.5°	11399.8	6973.8	1747.5	1886.4	2193.9	2566.9	2716.6	2384.5	1973.5	1766.6
7983.6	70°	6497.4	3960.5	1508.0	1714.9	1984.3	2289.2	2561.4	2289.2	1853.7	1682.2
2991.5	72.5°	2463.4	1818.3	1303.8	1543.4	1782.9	2055.1	2389.9	2139.5	1714.9	1586.9
1546.1	75°	1314.7	1107.9	1097.0	1341.9	1551.5	1826.5	2174.9	1992.5	1611.4	1676.8
1069.7	77.5°	895.5	783.9	917.3	1148.7	1298.4	1573.3	1946.2	1769.3	1396.4	1390.9
740.4	80°	620.6	555.3	745.8	925.5	1004.4	1322.9	1698.5	1518.9	1137.8	1061.6
457.3	82.5°	372.9	362.0	558.0	691.4	710.4	1020.8	1407.3	1273.9	930.9	811.2
272.2	85°	204.2	215.0	356.6	405.6	413.7	713.2	1102.4	985.4	715.9	601.6
98.0	87.5°	57.2	73.5	130.7	160.6	198.7	370.2	656.0	585.2	359.3	250.4
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>
6709.7
7202.4
7515.5
7605.3
7556.3
7442.0
7284.1
7017.3
6726.1
6541.0
6388.5
6219.8
6032.0
5757.0
5400.5
4948.6
4434.1
3919.7
3519.6
3252.8
2999.7
2806.4
2550.5
2330.0
2123.2
1959.8
1831.9
1733.9
1660.4
1565.2
<i>1731.2</i>
1282.1
1015.3
816.6
607.0
250.4
0.0

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