

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: P951692

Luminaire Tested: **GALN-SB5D-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52092 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

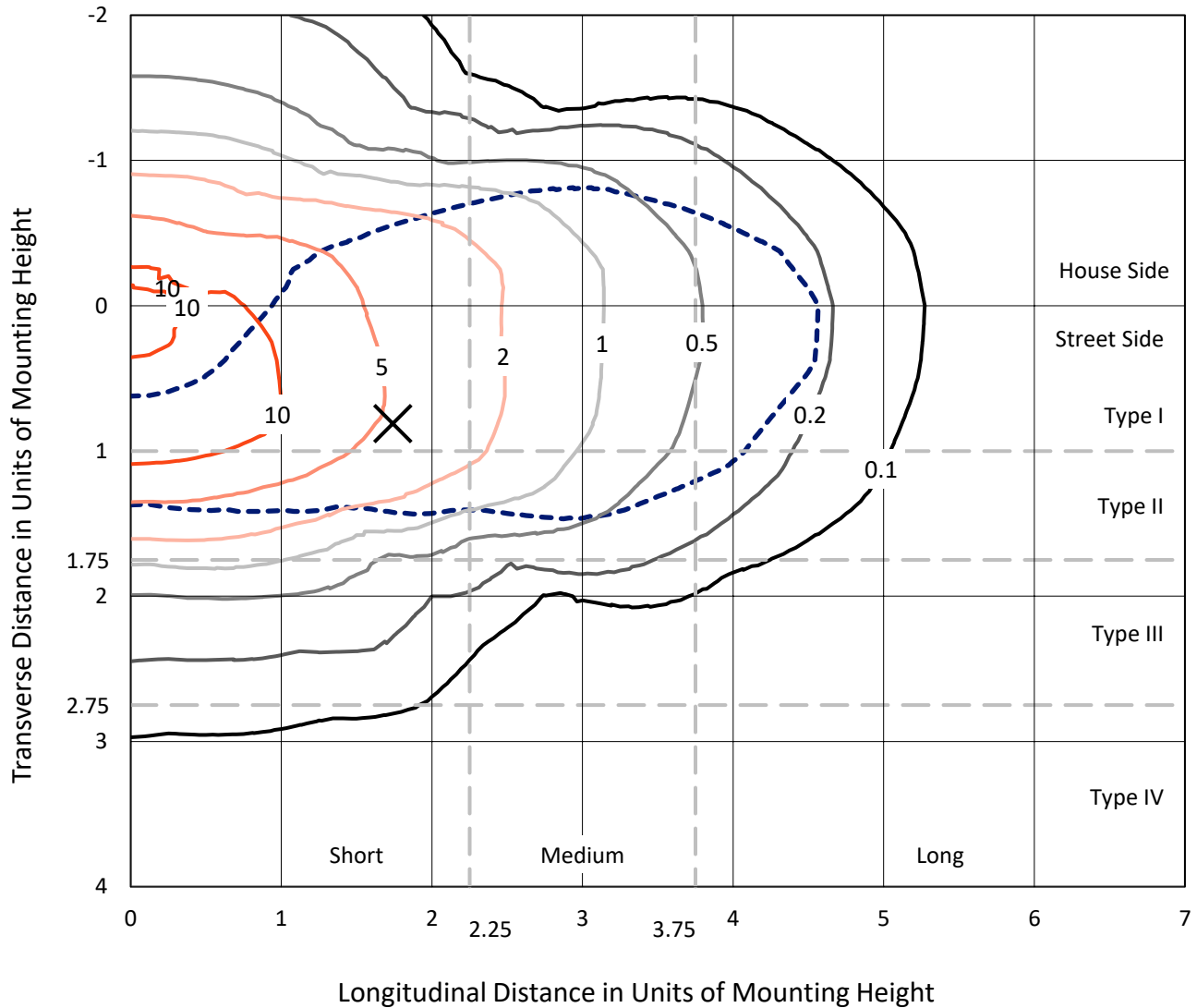
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

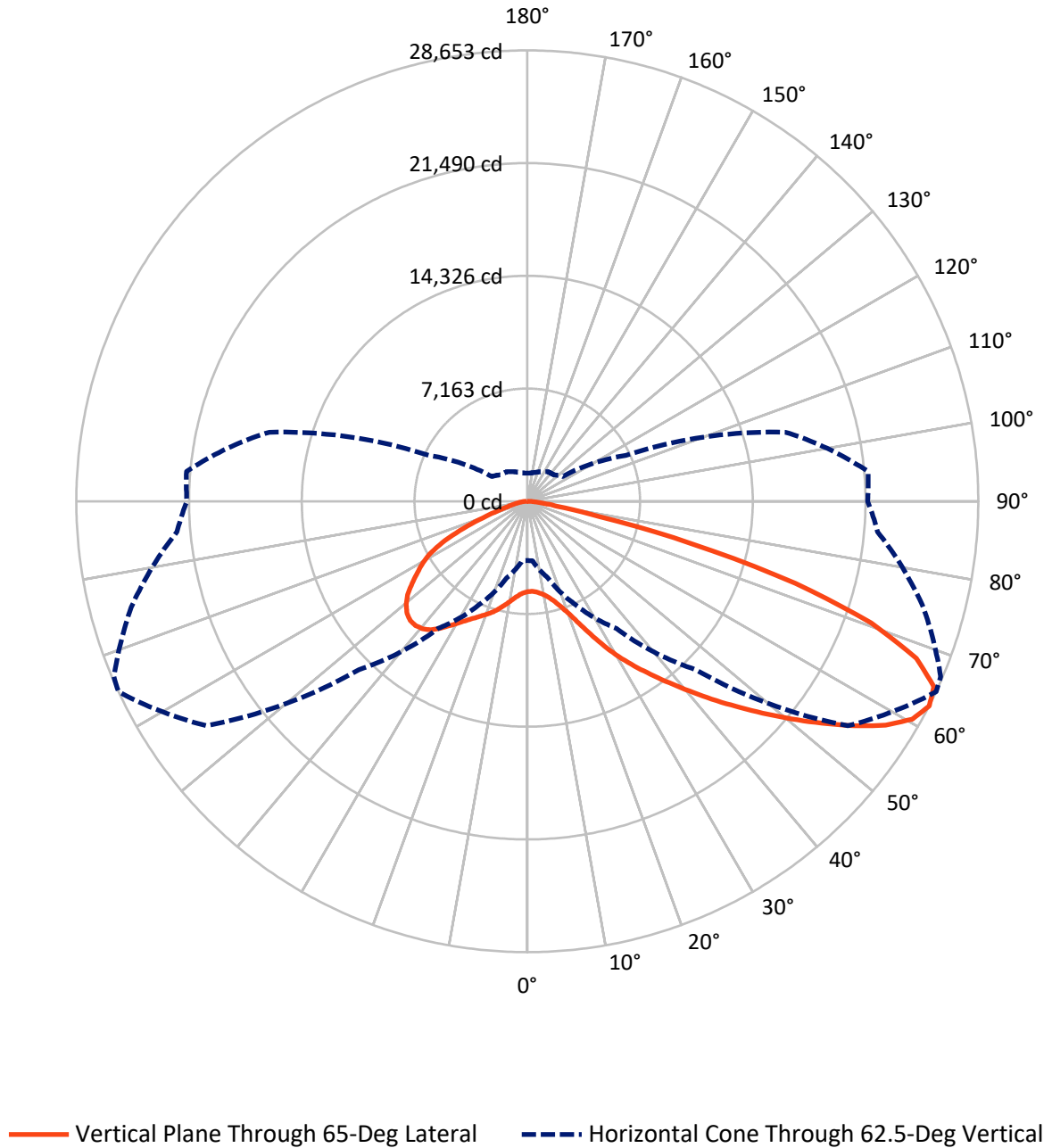
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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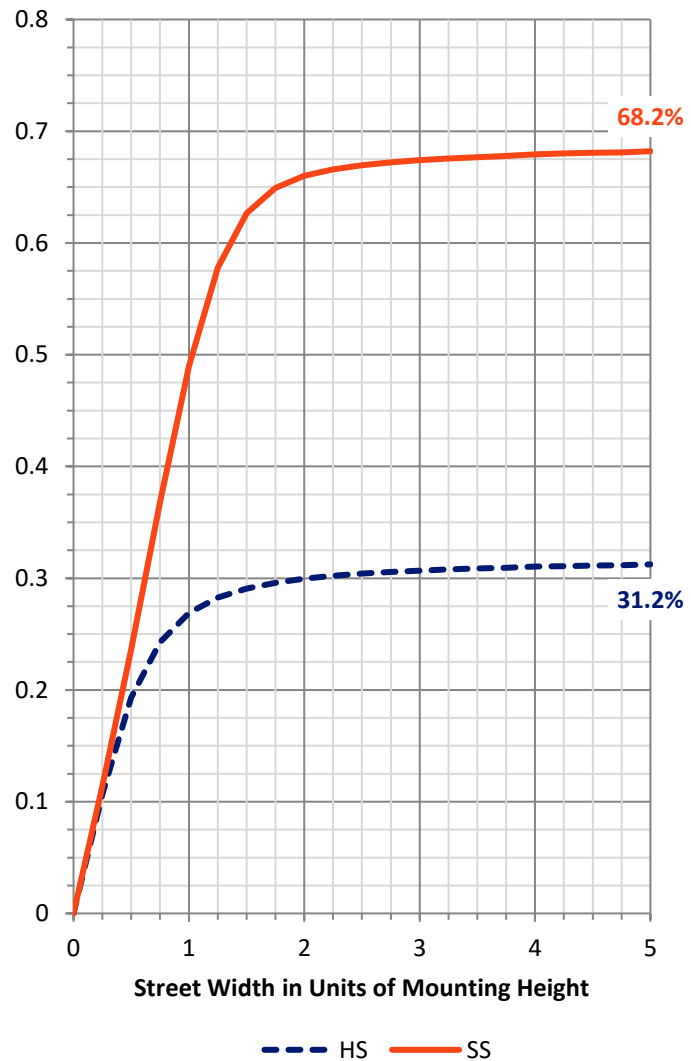
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16438.0	0.0	16438.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	35654.0	0.0	35654.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	52092.0	0.0	52092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.3	1.1
10°-20°	1940.7	3.7
20°-30°	3935.0	7.6
30°-40°	6809.5	13.1
40°-50°	10304.9	19.8
50°-60°	12081.8	23.2
60°-70°	10129.2	19.4
70°-80°	5592.1	10.7
80°-90°	726.4	1.4
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°	52092.0	100.0
0°-180°	52092.0	100.0

Coefficient of Utilization



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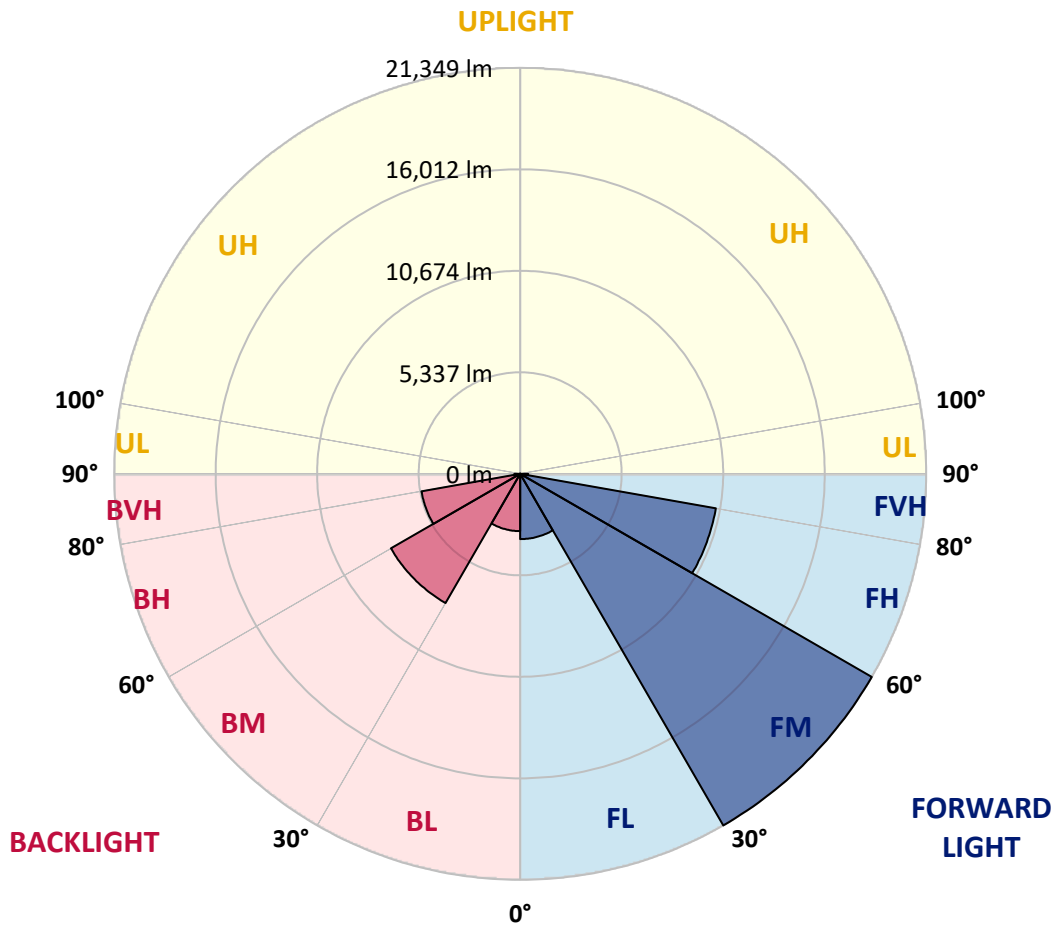
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3433.6	6.6			
FM (30°-60°)	21349.0	41.0			
FH (60°-80°)	10448.1	20.1			G4/12000
FVH (80°-90°)	423.4	0.8			G3/500
BL (0°-30°)	3014.5	5.8	B4/5000		
BM (30°-60°)	7847.2	15.1	B4/8500		
BH (60°-80°)	5273.2	10.1	B5		G5
BVH (80°-90°)	303.0	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	5740.3	5740.3	5740.3	5740.3	5740.3	5740.3	5740.3	5740.3	5740.3	5740.3
2.5°	5702.5	5686.3	5699.8	5699.8	5705.2	5702.5	5721.4	5726.8	5734.9	5751.1
5°	5645.7	5643.0	5667.3	5689.0	5710.6	5729.5	5753.8	5789.0	5794.4	5813.3
7.5°	5626.8	5610.6	5648.4	5675.5	5726.8	5772.7	5837.6	5897.1	5921.4	5929.5
10°	5772.7	5745.7	5780.9	5797.1	5840.3	5886.3	5961.9	6056.5	6083.5	6116.0
12.5°	6021.4	5991.7	6043.0	6067.3	6107.9	6148.4	6199.8	6291.6	6305.2	6364.6
15°	6361.9	6326.8	6359.2	6388.9	6456.5	6494.3	6545.7	6634.9	6634.9	6680.8
17.5°	6824.1	6778.1	6802.4	6813.2	6856.5	6913.2	6999.7	7078.1	7118.6	7102.4
20°	7513.2	7456.5	7456.5	7402.4	7386.2	7432.1	7545.6	7653.8	7697.0	7613.2
22.5°	8548.3	8467.2	8421.3	8237.5	8164.5	8169.9	8283.5	8415.9	8451.0	8302.4
25°	9864.5	9737.5	9675.3	9405.0	9240.2	9096.9	9186.1	9356.4	9405.0	9221.3
27.5°	11180.6	11188.7	11129.3	10805.0	10532.0	10269.9	10223.9	10402.3	10453.6	10245.5
30°	13026.5	12834.6	12721.1	12331.9	11942.8	11575.2	11386.0	11459.0	11472.5	11223.9
32.5°	14618.3	14569.7	14326.5	13985.9	13486.0	12910.3	12594.1	12477.9	12456.3	12102.2
35°	16431.8	16404.8	16148.0	15742.6	15202.1	14402.1	13831.9	13499.5	13472.4	12975.2
37.5°	18274.9	18274.9	18023.6	17580.4	17020.9	16021.0	15153.5	14626.4	14540.0	13891.3
40°	19745.2	19656.0	19701.9	19515.4	18874.9	17812.8	16621.0	15856.1	15739.9	14961.6
42.5°	20580.3	20550.5	20826.2	21034.3	20772.1	19923.5	18237.1	17188.5	17026.4	16139.9
45°	20766.7	20734.3	21226.2	21988.3	22355.9	22007.2	19993.8	18591.2	18393.9	17372.3
47.5°	20337.0	20272.2	20993.8	22196.4	23374.7	23988.2	21896.4	20112.7	19826.2	18572.2
50°	19045.2	18983.0	20074.9	21672.1	23718.0	25334.1	23961.2	21726.2	21288.3	19858.7
52.5°	16237.2	16266.9	17977.7	20172.2	23266.6	26171.9	25739.5	23426.1	22899.1	21174.8
55°	12648.1	12713.0	14815.6	17231.7	21461.3	26044.9	26953.0	25177.4	24653.1	22412.6
57.5°	9056.4	9342.9	11313.1	13704.9	17993.9	24031.5	27217.8	26842.2	26334.1	23763.9
60°	5870.0	5921.4	7948.3	10359.0	13702.2	20453.2	26680.0	28104.3	27707.0	25142.2
62.5°	3762.0	3797.1	5032.2	7245.7	9861.8	15131.8	24869.3	28652.9	28531.3	26053.0
65°	2764.8	2737.7	3380.9	4789.0	6643.0	9332.1	21353.2	28388.1	28628.6	26623.3
67.5°	2308.0	2270.2	2586.4	3316.1	4894.4	5299.8	15799.4	26666.5	27547.6	26558.4
70°	2102.6	2070.2	2262.1	2462.1	3818.8	3548.5	7964.5	23182.9	24539.6	25820.6
72.5°	1781.0	1724.3	1986.4	2186.4	2970.2	2721.5	3291.8	17807.4	19461.4	23455.8
75°	1381.0	1343.2	1567.5	1924.2	2232.3	2124.2	2081.0	10813.1	12618.4	18139.8
77.5°	1094.6	1043.2	1248.6	1499.9	2008.0	1602.6	1516.2	4656.6	6445.7	11580.6
80°	824.3	778.3	948.6	1186.4	1543.2	1208.1	981.0	1899.9	2429.6	5867.3
82.5°	586.5	545.9	662.1	870.2	1037.8	1083.7	602.7	1064.8	1197.2	2262.1
85°	375.7	351.3	443.2	545.9	659.4	697.3	367.6	556.7	610.8	932.4
87.5°	205.4	167.6	237.8	254.0	305.4	278.4	175.7	202.7	218.9	337.8
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°
5740.3	0°	5740.3	5740.3	5740.3	5740.3	5740.3	5740.3	5740.3	5740.3	5740.3	5740.3
5751.1	2.5°	5761.9	5770.0	5797.1	5805.2	5824.1	5848.4	5864.6	5880.8	5880.8	5897.1
5837.6	5°	5840.3	5859.2	5916.0	5945.7	5994.4	6043.0	6072.7	6107.9	6129.5	6140.3
5975.4	7.5°	5991.7	6021.4	6102.5	6153.8	6237.6	6305.2	6351.1	6399.7	6410.6	6440.3
6167.3	10°	6197.1	6232.2	6324.1	6421.4	6521.4	6605.1	6648.4	6683.5	6697.0	6702.4
6413.3	12.5°	6432.2	6483.5	6602.4	6721.4	6826.8	6899.7	6910.5	6902.4	6864.6	6832.2
6715.9	15°	6721.4	6767.3	6899.7	7029.5	7132.1	7145.7	7078.1	7034.9	6988.9	6980.8
7053.8	17.5°	7067.3	7091.6	7213.2	7340.2	7348.4	7302.4	7202.4	7161.9	7118.6	7088.9
7494.3	20°	7470.0	7461.9	7548.3	7602.4	7545.6	7405.1	7253.8	7186.2	7143.0	7107.8
8034.8	22.5°	7951.0	7888.9	7878.1	7864.6	7713.2	7418.6	7213.2	7126.7	7059.2	7010.5
8788.8	25°	8651.0	8413.2	8248.3	8156.4	7815.9	7345.7	7083.5	6891.6	6764.6	6680.8
9710.4	27.5°	9526.6	9126.7	8710.5	8486.1	7815.9	7197.0	6770.0	6459.2	6251.1	6164.6
10602.3	30°	10361.8	9942.8	9329.4	8883.4	7797.0	6953.8	6264.6	5832.2	5589.0	5502.5
11364.4	32.5°	11075.2	10618.5	9986.1	9318.5	7751.0	6559.2	5637.6	5159.3	4924.1	4821.4
12118.4	35°	11737.4	11250.9	10645.5	9796.9	7629.4	5980.8	4948.5	4583.6	4321.4	4156.6
12886.0	37.5°	12415.7	11837.4	11269.8	10229.3	7410.5	5305.2	4418.7	4107.9	3799.8	3578.2
13702.2	40°	13153.5	12461.7	11937.4	10486.1	7051.1	4662.0	4007.9	3724.2	3397.2	3162.0
14642.7	42.5°	14015.7	13210.3	12680.6	10618.5	6559.2	4205.2	3740.4	3462.0	3153.9	2962.0
15650.7	45°	14915.6	14034.6	13358.9	10615.8	6010.6	3991.7	3653.9	3378.2	3037.7	2837.7
16685.8	47.5°	15858.8	14896.7	13945.4	10442.8	5534.9	4021.5	3605.3	3197.2	2821.5	2626.9
17731.7	50°	16804.7	15839.9	14512.9	10118.5	5332.2	3956.6	3424.2	2943.1	2499.9	2324.2
18712.8	52.5°	17742.5	16842.6	15002.1	9656.4	5126.8	3716.1	3191.8	2613.4	2367.5	2245.9
19726.2	55°	18685.7	17834.4	15534.5	8983.4	4613.3	3435.0	2802.6	2489.1	2262.1	2151.3
20718.1	57.5°	19631.7	18980.3	16039.9	8310.5	3967.4	3089.1	2589.1	2337.7	2156.7	2062.1
21547.8	60°	20615.4	20291.1	16561.5	7691.6	3329.6	2645.8	2432.3	2216.1	2032.4	1927.0
22345.1	62.5°	21628.9	21734.3	16969.6	6894.3	2743.1	2375.6	2291.8	2070.2	1891.8	1791.8
23004.5	65°	22650.5	23126.1	17237.2	5789.0	2224.2	2118.8	2140.5	1910.7	1729.7	1643.2
23488.3	67.5°	23420.7	24128.8	17161.5	4380.9	1824.3	1875.6	1951.3	1743.2	1572.9	1505.3
23409.9	70°	23507.2	24009.9	16415.6	2999.9	1527.0	1637.8	1740.5	1578.3	1402.6	1354.0
22307.2	72.5°	22355.9	22388.3	14337.3	1959.4	1291.8	1437.8	1518.9	1410.8	1240.5	1191.8
19515.4	75°	19337.1	18515.5	10526.6	1291.8	1081.0	1235.1	1310.8	1235.1	1070.2	1081.0
14602.1	77.5°	14650.8	13113.0	6391.6	918.9	902.7	1037.8	1140.5	1086.4	945.9	1062.1
7343.0	80°	7548.3	7094.3	2851.2	686.5	713.5	829.7	937.8	867.5	748.6	713.5
1640.5	82.5°	1729.7	2010.7	1124.3	491.9	516.2	597.3	716.2	651.3	537.8	454.0
683.8	85°	605.4	662.1	497.3	308.1	302.7	373.0	486.5	435.1	364.9	291.9
289.2	87.5°	191.9	251.3	186.5	124.3	129.7	167.6	224.3	205.4	170.3	110.8
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>
5740.3
5897.1
6145.7
6429.5
6688.9
6832.2
6980.8
7091.6
7110.5
7026.7
6713.2
6207.9
5553.8
4872.8
4210.6
3637.7
3208.0
2999.9
2870.2
2653.9
2335.0
2245.9
2140.5
2045.9
1918.8
1789.1
1640.5
1508.0
1356.7
1189.1
1043.2
935.1
651.3
448.6
308.1
116.2
0.0

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