

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: P951254

Luminaire Tested: **GALN-SB5B-950-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-950-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15242 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

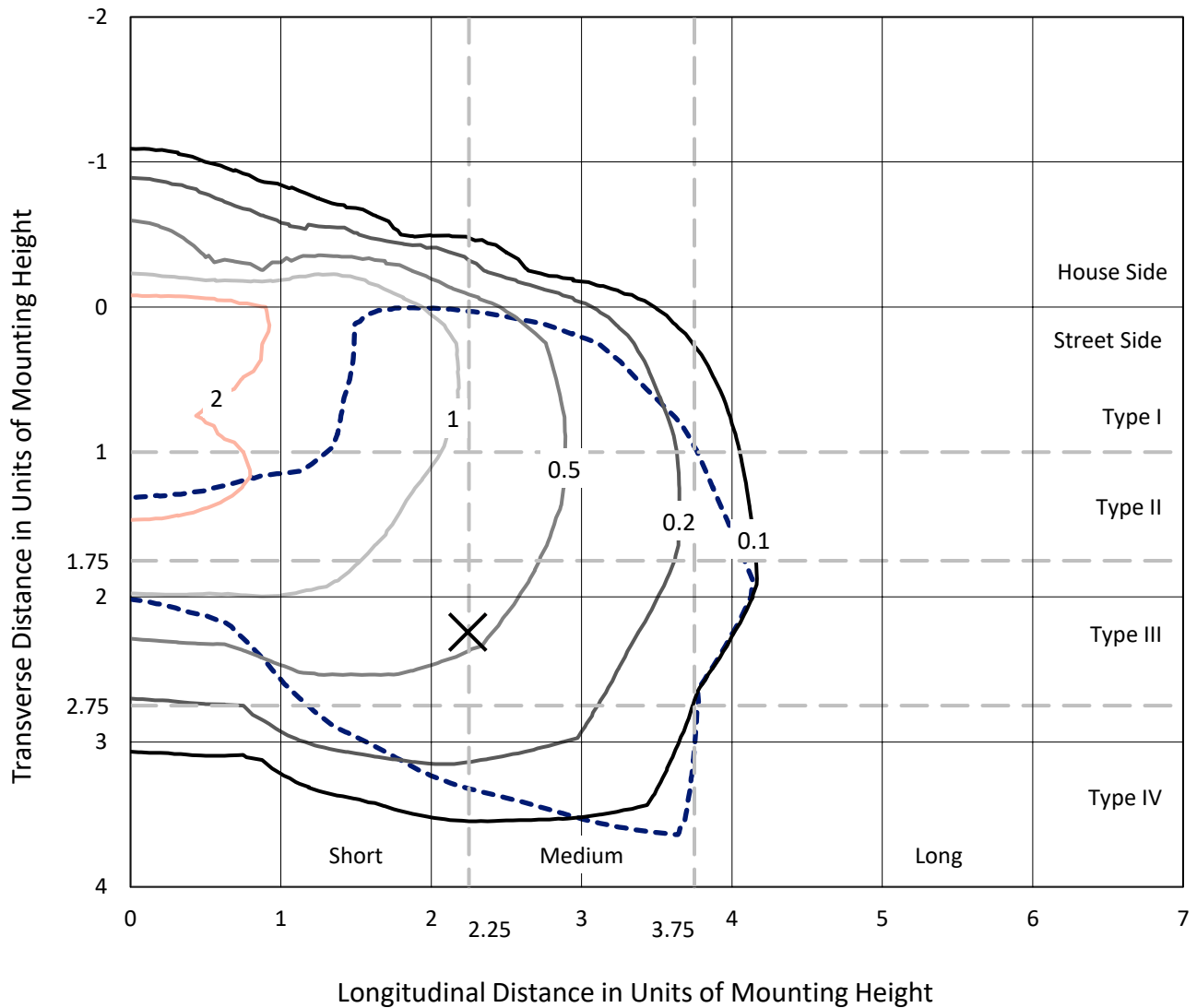
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

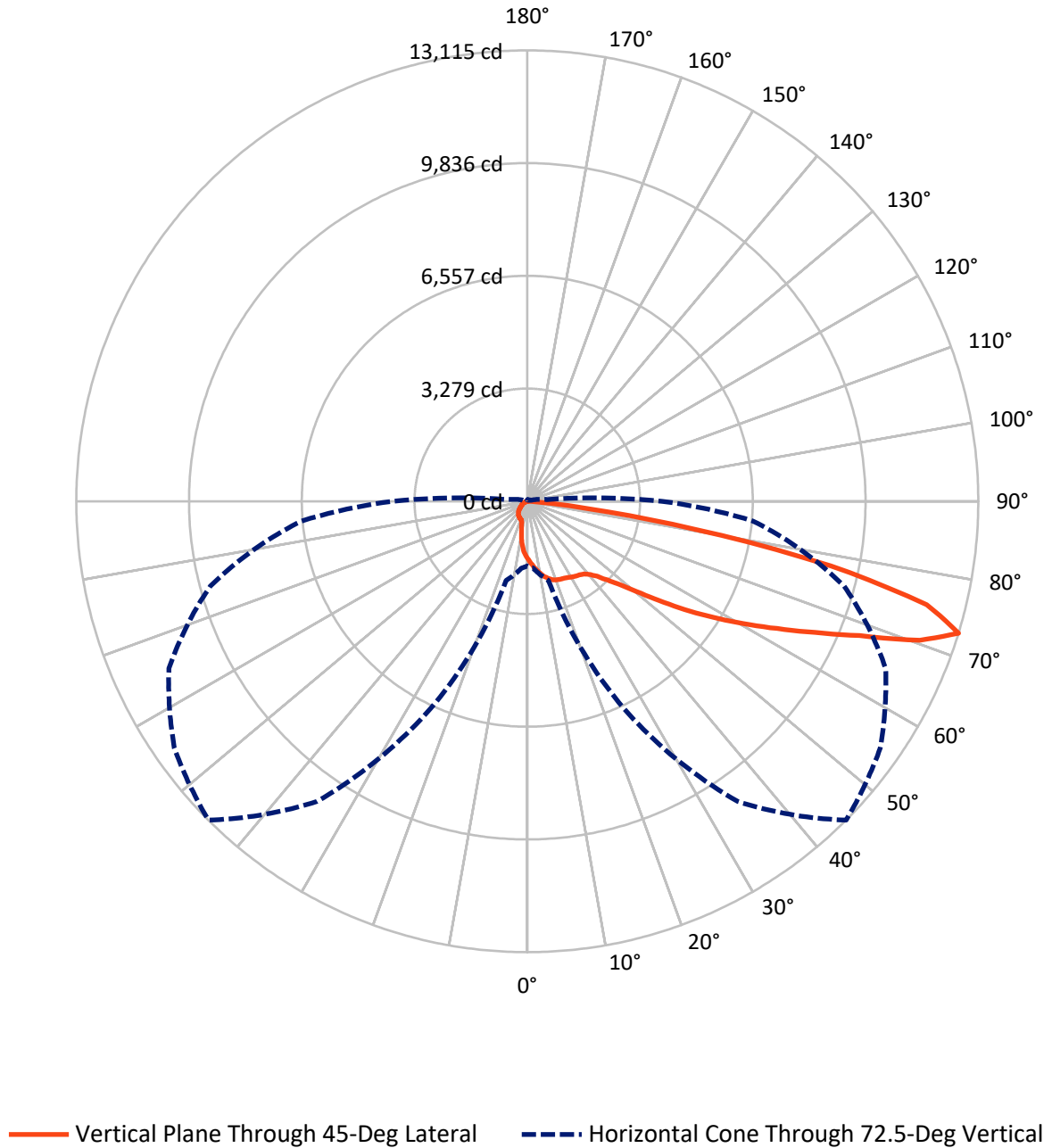
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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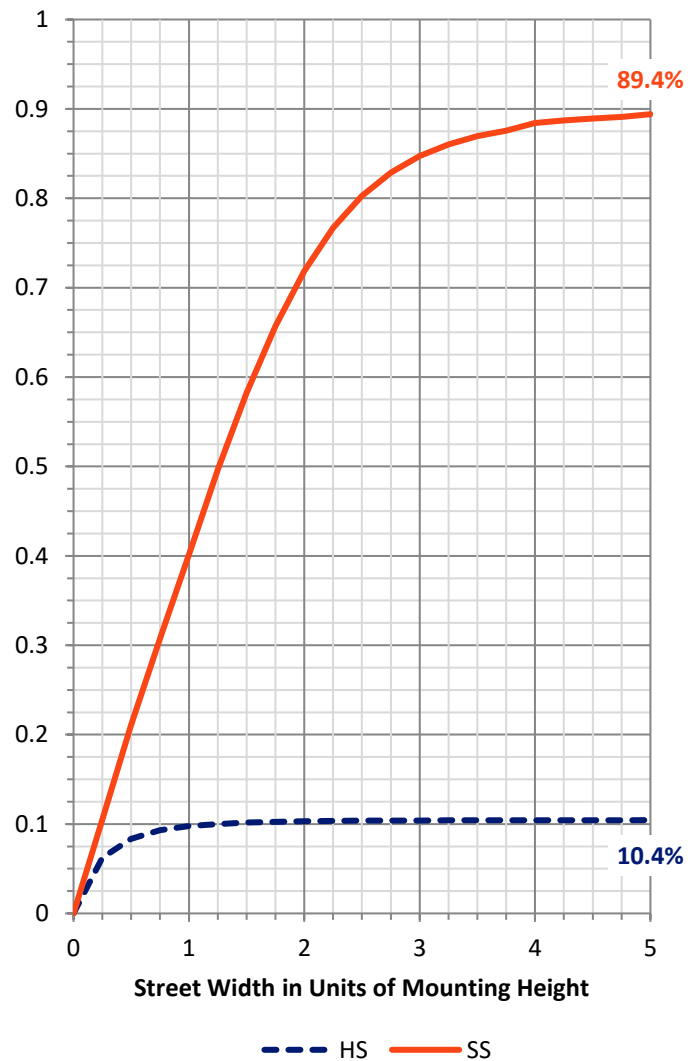
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1601.5	0.0	1601.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	13640.5	0.0	13640.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	15242.0	0.0	15242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	1.0
10°-20°	459.8	3.0
20°-30°	755.1	5.0
30°-40°	1070.9	7.0
40°-50°	1770.0	11.6
50°-60°	3179.7	20.9
60°-70°	4415.1	29.0
70°-80°	3202.6	21.0
80°-90°	231.5	1.5
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°	15242.0	100.0
0°-180°	15242.0	100.0

Coefficient of Utilization



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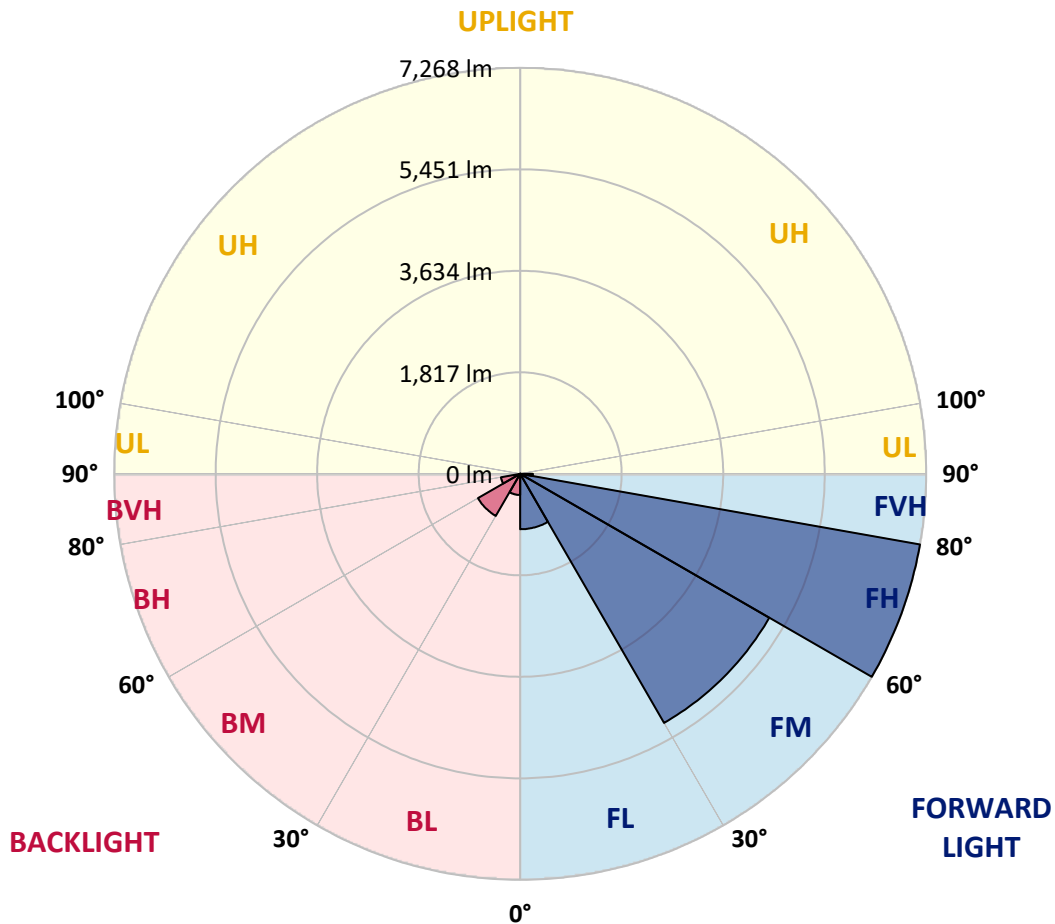
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	992.9	6.5			
FM (30°-60°)	5149.6	33.8			
FH (60°-80°)	7268.5	47.7			G3/7500
FVH (80°-90°)	229.6	1.5			G3/500
BL (0°-30°)	379.3	2.5	B1/500		
BM (30°-60°)	871.0	5.7	B1/1000		
BH (60°-80°)	349.2	2.3	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8
2.5°	1823.8	1826.9	1824.8	1812.3	1791.5	1780.1	1773.8	1753.0	1739.5	1715.6
5°	1991.3	2003.8	1996.5	1971.5	1932.0	1903.9	1895.6	1852.9	1814.4	1769.7
7.5°	2169.2	2175.4	2161.9	2129.6	2076.6	2028.7	2021.4	1962.1	1900.8	1832.1
10°	2323.1	2330.4	2309.6	2262.8	2202.5	2143.2	2132.8	2067.2	1994.4	1910.1
12.5°	2452.2	2459.4	2432.4	2376.2	2309.6	2248.2	2237.8	2169.2	2089.1	1995.4
15°	2549.9	2563.5	2527.1	2466.7	2394.9	2333.5	2328.3	2260.7	2182.7	2078.7
17.5°	2607.2	2620.7	2586.4	2513.5	2452.2	2400.1	2393.9	2337.7	2264.9	2165.0
20°	2616.5	2629.0	2592.6	2529.1	2478.2	2436.5	2433.4	2392.9	2339.8	2244.1
22.5°	2588.4	2604.0	2570.8	2519.8	2484.4	2462.6	2458.4	2435.5	2405.3	2324.2
25°	2559.3	2571.8	2546.8	2502.1	2483.4	2481.3	2484.4	2480.2	2474.0	2405.3
27.5°	2557.2	2570.8	2542.7	2500.0	2489.6	2511.5	2514.6	2534.3	2539.5	2479.2
30°	2574.9	2584.3	2557.2	2512.5	2507.3	2557.2	2558.3	2593.6	2602.0	2541.6
32.5°	2613.4	2623.8	2596.8	2531.2	2523.9	2593.6	2596.8	2643.6	2657.1	2608.2
35°	2703.9	2716.4	2685.2	2583.2	2557.2	2628.0	2637.3	2692.5	2719.5	2679.0
37.5°	2929.7	2893.3	2850.6	2688.3	2633.2	2682.1	2697.7	2762.2	2810.0	2763.2
40°	3490.4	3376.0	3242.8	2867.3	2766.3	2797.6	2810.0	2874.5	2940.1	2894.3
42.5°	4332.1	4196.9	3982.5	3279.2	2967.1	2982.7	2992.1	3048.3	3140.9	3104.5
45°	5082.2	5033.3	4814.8	3982.5	3342.7	3265.7	3277.2	3306.3	3442.6	3429.1
47.5°	5658.6	5630.5	5461.9	4789.9	3977.3	3612.2	3644.4	3657.9	3854.6	3902.4
50°	6101.8	6091.4	5940.5	5507.7	4806.5	4123.0	4134.4	4105.3	4399.7	4518.3
52.5°	6520.0	6555.4	6444.1	6174.6	5691.9	4791.9	4789.9	4652.5	5050.0	5228.9
55°	6897.7	6910.1	6921.6	6855.0	6582.4	5553.5	5533.7	5309.0	5804.2	5989.4
57.5°	7252.4	7257.6	7359.6	7495.9	7509.4	6371.2	6334.8	6065.4	6628.2	6760.3
60°	7490.7	7514.6	7729.9	8108.6	8274.1	7215.0	7195.2	6920.5	7466.7	7528.1
62.5°	7147.3	7293.0	7836.1	8587.2	8996.1	8150.3	8140.9	7882.9	8349.0	8299.0
65°	5785.5	6032.1	6987.1	8910.8	9704.6	9194.8	9208.3	8933.7	9255.1	9092.8
67.5°	4047.0	4307.1	5437.0	8936.8	10496.3	10421.4	10499.4	10068.7	10217.5	9853.3
70°	2798.6	2932.8	3668.3	8377.1	11113.2	12110.9	12108.9	11462.8	11174.6	10199.8
72.5°	1882.0	1951.7	2382.4	6645.9	10659.6	13114.9	13054.6	12528.1	11497.1	9539.2
75°	793.8	844.8	1102.8	3734.9	8433.2	11998.6	11835.2	11071.6	10215.4	7511.5
77.5°	251.8	273.6	434.9	1336.9	4645.3	9019.0	8846.3	6914.3	6846.7	3768.2
80°	119.6	139.4	244.5	536.8	1827.9	4905.3	4881.4	3136.7	2945.3	1017.5
82.5°	52.0	61.4	135.2	287.1	817.7	1749.9	1785.3	1067.4	883.3	386.0
85°	16.6	21.8	62.4	132.1	345.4	434.9	429.7	253.9	355.8	210.2
87.5°	0.0	0.0	20.8	30.2	35.4	25.0	28.1	21.8	98.8	58.3
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°
1669.8	0°	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8
1690.6	2.5°	1678.1	1661.5	1632.3	1605.3	1581.4	1557.4	1542.9	1522.1	1520.0	1520.0
1717.7	5°	1689.6	1662.5	1610.5	1555.4	1491.9	1431.5	1371.2	1312.9	1294.2	1280.7
1761.3	7.5°	1722.9	1680.2	1598.0	1492.9	1372.2	1240.1	1147.5	1047.7	1009.2	988.4
1819.6	10°	1770.7	1712.4	1587.6	1403.5	1207.9	1027.9	895.8	787.6	745.9	728.3
1883.1	12.5°	1823.8	1752.0	1568.9	1292.1	1027.9	812.5	683.5	633.6	627.3	627.3
1959.0	15°	1887.2	1799.8	1536.6	1161.1	839.6	642.9	597.2	599.3	605.5	609.7
2032.9	17.5°	1952.8	1850.8	1485.6	1014.4	673.1	578.4	579.5	582.6	587.8	592.0
2113.0	20°	2023.5	1901.8	1418.0	858.3	577.4	559.7	562.8	566.0	570.1	572.2
2187.9	22.5°	2099.5	1949.7	1337.9	705.4	545.2	544.1	545.2	548.3	553.5	553.5
2275.3	25°	2180.6	2002.7	1246.4	594.1	528.5	528.5	530.6	532.7	536.8	536.8
2359.6	27.5°	2263.8	2051.6	1149.6	535.8	513.9	512.9	512.9	516.0	518.1	519.1
2442.8	30°	2355.4	2108.8	1052.9	523.3	502.5	497.3	494.2	496.3	498.3	499.4
2530.2	32.5°	2449.0	2164.0	966.5	528.5	491.1	481.7	471.3	469.2	469.2	473.4
2620.7	35°	2553.1	2224.3	899.9	546.2	484.8	458.8	442.2	432.8	433.8	440.1
2728.9	37.5°	2677.9	2297.1	851.0	561.8	480.7	432.8	405.7	394.3	387.0	394.3
2877.7	40°	2841.2	2404.3	815.6	574.3	475.4	402.6	366.2	347.5	334.0	338.1
3108.6	42.5°	3081.6	2572.8	802.1	575.3	464.0	367.3	325.6	300.7	280.9	281.9
3456.1	45°	3418.7	2839.2	871.8	561.8	439.0	328.8	283.0	249.7	237.2	234.1
3975.3	47.5°	3880.6	3227.2	1033.1	533.7	402.6	291.3	241.4	213.3	203.9	198.7
4656.7	50°	4499.6	3725.6	1212.0	502.5	366.2	255.9	207.0	189.3	183.1	177.9
5465.1	52.5°	5217.5	4231.2	1358.7	471.3	329.8	224.7	185.2	174.8	169.6	165.4
6245.3	55°	5876.0	4579.7	1350.4	438.0	294.4	199.8	169.6	163.3	157.1	152.9
6917.4	57.5°	6285.9	4628.6	1113.2	401.6	253.9	180.0	155.0	150.9	143.6	138.4
7499.0	60°	6474.2	4349.8	780.3	353.7	213.3	161.3	139.4	137.3	128.0	120.7
8049.3	62.5°	6508.6	3831.7	520.2	294.4	177.9	143.6	123.8	120.7	108.2	95.7
8496.7	65°	6369.1	3090.9	360.0	229.9	151.9	124.8	106.1	99.9	86.4	73.9
8602.8	67.5°	5928.0	2170.2	250.7	165.4	129.0	98.8	84.3	82.2	71.8	61.4
8061.8	70°	5119.7	1237.0	167.5	123.8	102.0	67.6	66.6	68.7	58.3	49.9
6586.6	72.5°	3925.3	566.0	104.0	90.5	69.7	45.8	53.1	54.1	44.7	37.5
4109.5	75°	2310.7	242.4	65.5	58.3	35.4	30.2	38.5	39.5	30.2	23.9
1502.3	77.5°	786.5	91.6	41.6	34.3	17.7	16.6	25.0	25.0	16.6	9.4
301.7	80°	178.9	34.3	20.8	13.5	8.3	7.3	8.3	7.3	4.2	1.0
92.6	82.5°	51.0	13.5	8.3	5.2	3.1	3.1	1.0	0.0	0.0	0.0
32.3	85°	14.6	6.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
11.4	87.5°	6.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1669.8
1525.2
1286.9
991.5
728.3
627.3
609.7
592.0
573.2
555.6
537.9
520.2
501.5
476.5
443.2
392.2
336.0
277.8
229.9
195.6
176.9
164.4
150.9
137.3
118.6
89.5
69.7
58.3
45.8
33.3
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