

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: P947432

Luminaire Tested: **GALN-SB2D-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947432
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-SB2D-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 900mA 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: 16584 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

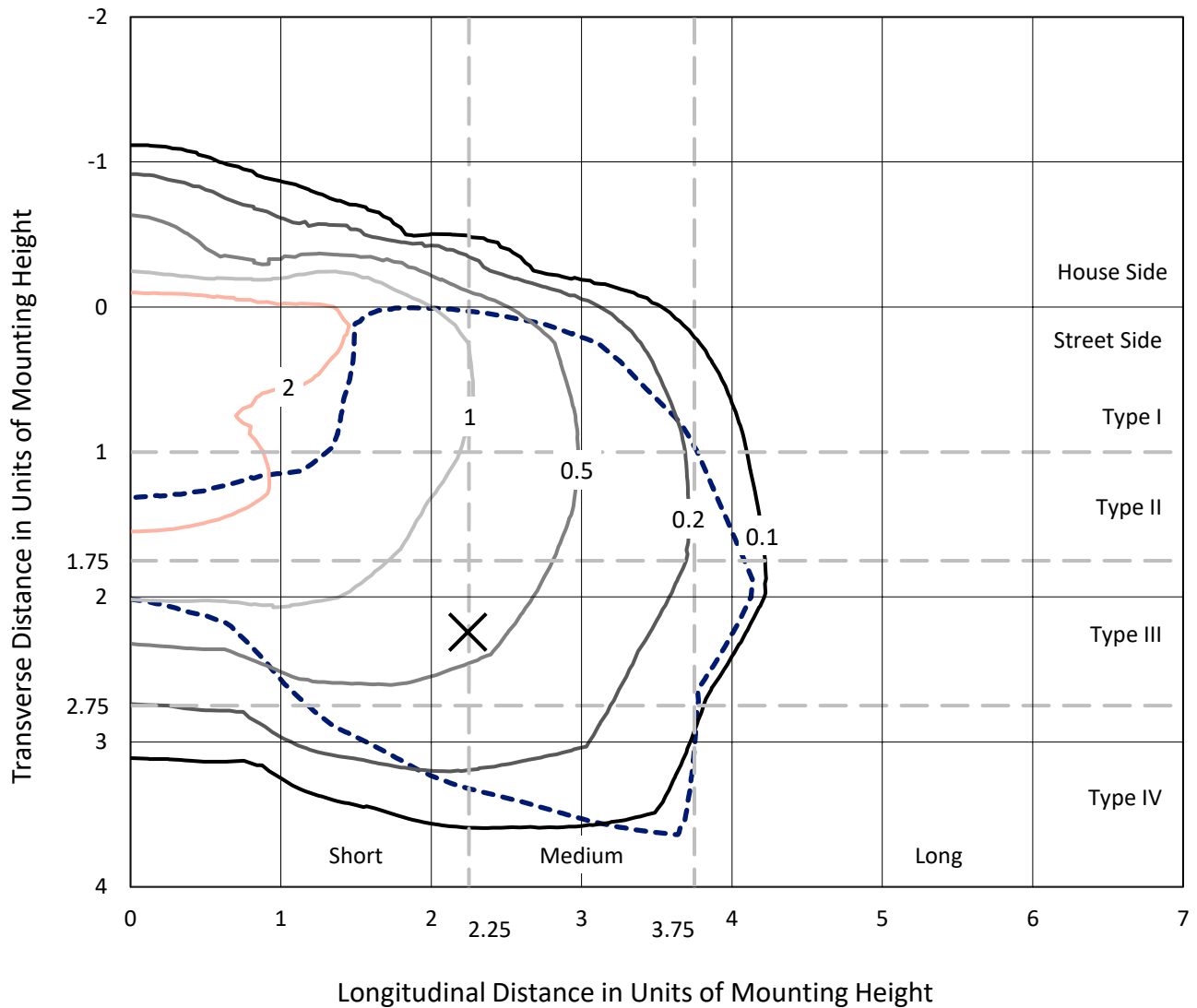
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

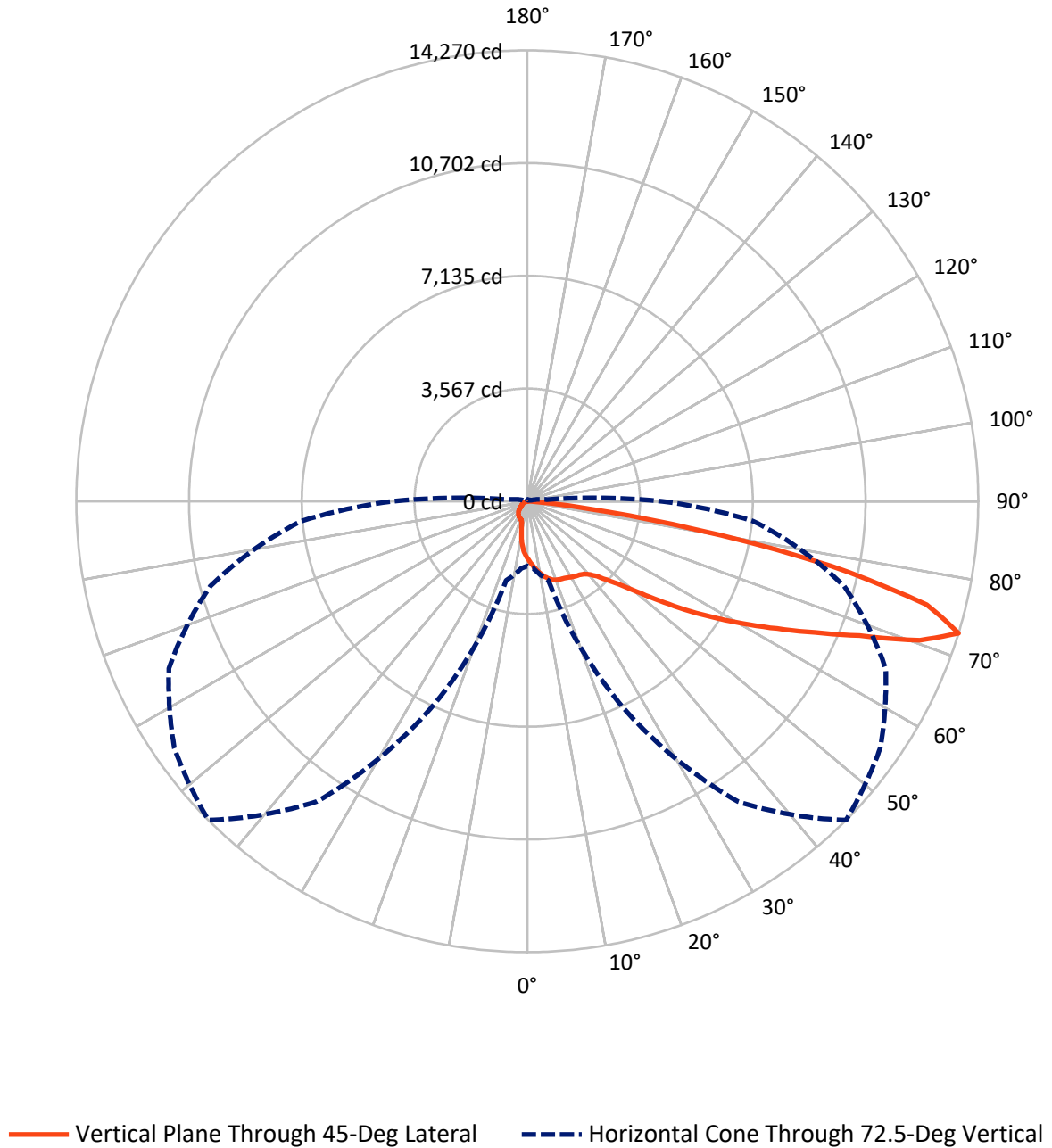
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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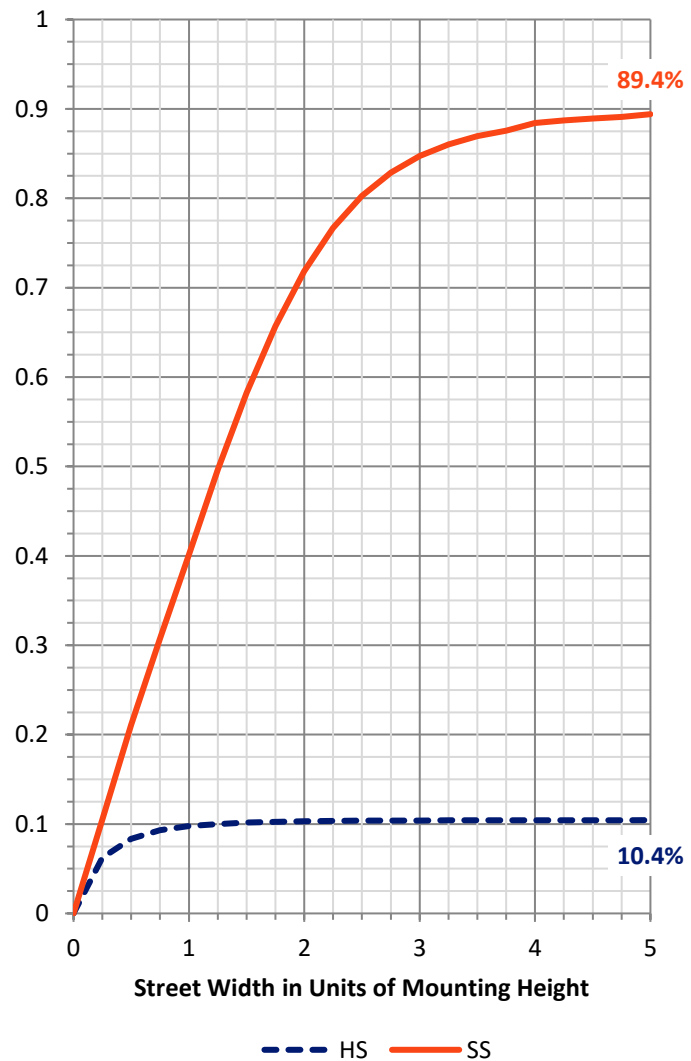
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1742.5	0.0	1742.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14841.5	0.0	14841.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	16584.0	0.0	16584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	1.0
10°-20°	500.3	3.0
20°-30°	821.6	5.0
30°-40°	1165.2	7.0
40°-50°	1925.9	11.6
50°-60°	3459.6	20.9
60°-70°	4803.9	29.0
70°-80°	3484.6	21.0
80°-90°	251.9	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°	16584.0	100.0
0°-180°	16584.0	100.0

Coefficient of Utilization



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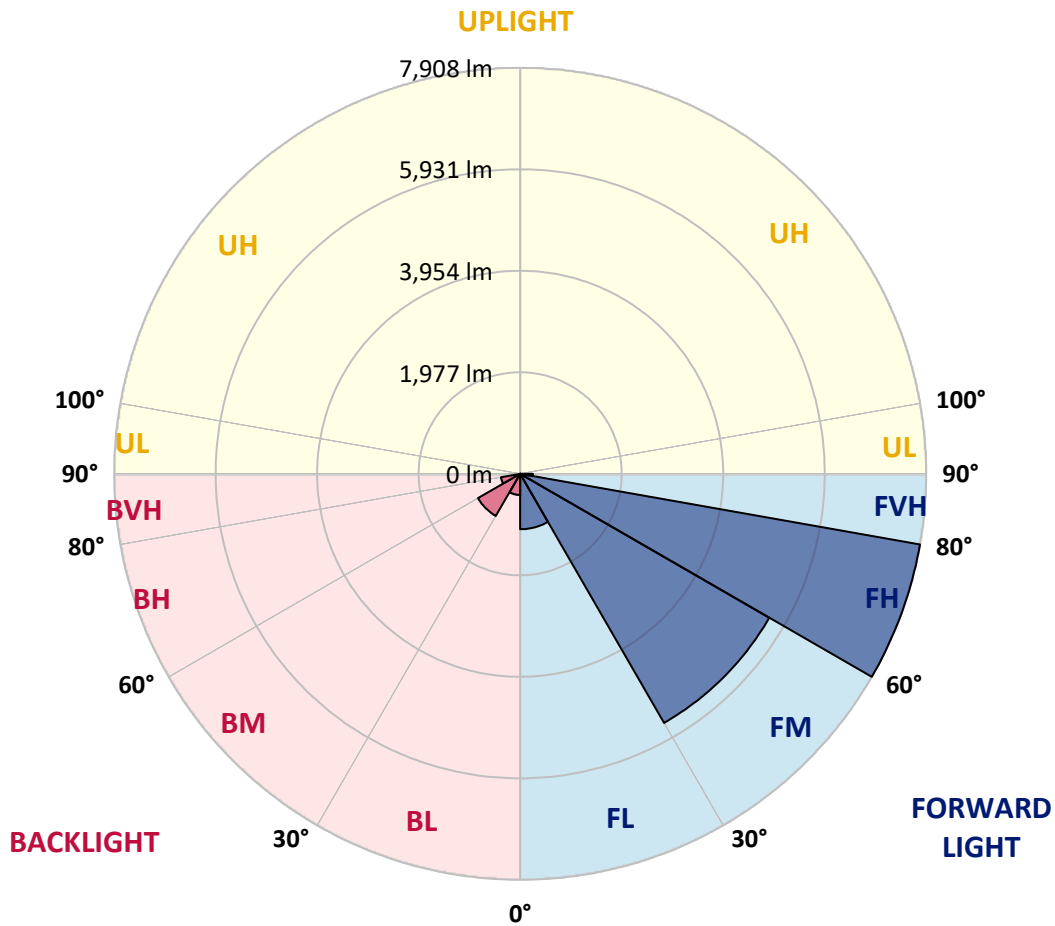
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1080.3	6.5			
FM (30°-60°)	5603.0	33.8			
FH (60°-80°)	7908.4	47.7			G4/12000
FVH (80°-90°)	249.8	1.5			G3/500
BL (0°-30°)	412.7	2.5	B1/500		
BM (30°-60°)	947.7	5.7	B1/1000		
BH (60°-80°)	380.0	2.3	B1/500		G1/500
BVH (80°-90°)	2.1	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8
2.5°	1984.3	1987.7	1985.5	1971.9	1949.3	1936.8	1930.0	1907.4	1892.7	1866.6
5°	2166.6	2180.2	2172.3	2145.1	2102.1	2071.5	2062.5	2016.0	1974.2	1925.5
7.5°	2360.2	2367.0	2352.2	2317.1	2259.4	2207.3	2199.4	2134.9	2068.1	1993.4
10°	2527.7	2535.6	2513.0	2462.0	2396.4	2331.9	2320.5	2249.2	2170.0	2078.3
12.5°	2668.1	2676.0	2646.5	2585.4	2513.0	2446.2	2434.9	2360.2	2273.0	2171.1
15°	2774.5	2789.2	2749.6	2683.9	2605.8	2539.0	2533.3	2459.8	2374.9	2261.7
17.5°	2836.7	2851.4	2814.1	2734.8	2668.1	2611.5	2604.7	2543.5	2464.3	2355.6
20°	2846.9	2860.5	2820.9	2751.8	2696.4	2651.1	2647.7	2603.5	2545.8	2441.7
22.5°	2816.3	2833.3	2797.1	2741.6	2703.1	2679.4	2674.8	2649.9	2617.1	2528.8
25°	2784.6	2798.2	2771.1	2722.4	2702.0	2699.7	2703.1	2698.6	2691.8	2617.1
27.5°	2782.4	2797.1	2766.5	2720.1	2708.8	2732.6	2736.0	2757.5	2763.1	2697.5
30°	2801.6	2811.8	2782.4	2733.7	2728.0	2782.4	2783.5	2822.0	2831.1	2765.4
32.5°	2843.5	2854.8	2825.4	2754.1	2746.2	2822.0	2825.4	2876.3	2891.1	2837.8
35°	2942.0	2955.6	2921.6	2810.7	2782.4	2859.4	2869.5	2929.5	2959.0	2914.8
37.5°	3187.6	3148.0	3101.6	2925.0	2865.0	2918.2	2935.2	3005.4	3057.5	3006.5
40°	3797.8	3673.2	3528.4	3119.7	3009.9	3043.9	3057.5	3127.6	3198.9	3149.1
42.5°	4713.5	4566.4	4333.2	3568.0	3228.4	3245.4	3255.5	3316.7	3417.4	3377.8
45°	5529.7	5476.5	5238.8	4333.2	3637.0	3553.3	3565.7	3597.4	3745.7	3731.0
47.5°	6156.8	6126.2	5942.8	5211.6	4327.5	3930.2	3965.3	3980.0	4194.0	4246.0
50°	6639.0	6627.7	6463.6	5992.7	5229.7	4486.0	4498.5	4466.8	4787.1	4916.1
52.5°	7094.1	7132.5	7011.4	6718.2	6193.0	5213.9	5211.6	5062.2	5494.6	5689.3
55°	7505.0	7518.5	7531.0	7458.6	7162.0	6042.5	6021.0	5776.4	6315.3	6516.8
57.5°	7891.0	7896.6	8007.6	8155.8	8170.6	6932.2	6892.6	6599.4	7211.8	7355.5
60°	8150.2	8176.2	8410.5	8822.6	9002.6	7850.2	7828.7	7529.9	8124.2	8190.9
62.5°	7776.6	7935.1	8526.0	9343.3	9788.1	8867.9	8857.7	8576.9	9084.1	9029.7
65°	6294.9	6563.2	7602.3	9695.3	10559.0	10004.4	10019.1	9720.2	10070.0	9893.4
67.5°	4403.4	4686.4	5915.7	9723.6	11420.4	11338.9	11423.8	10955.2	11117.1	10720.9
70°	3045.0	3191.0	3991.3	9114.6	12091.7	13177.3	13175.0	12472.0	12158.5	11097.8
72.5°	2047.7	2123.6	2592.2	7231.0	11598.2	14269.6	14204.0	13631.2	12509.4	10379.0
75°	863.7	919.2	1199.9	4063.8	9175.8	13055.0	12877.3	12046.4	11114.8	8172.8
77.5°	273.9	297.7	473.2	1454.6	5054.2	9813.1	9625.1	7523.1	7449.5	4100.0
80°	130.2	151.7	266.0	584.1	1988.9	5337.2	5311.2	3412.9	3204.6	1107.1
82.5°	56.6	66.8	147.2	312.4	889.7	1904.0	1942.5	1161.4	961.0	420.0
85°	18.1	23.8	67.9	143.8	375.8	473.2	467.5	276.2	387.1	228.7
87.5°	0.0	0.0	22.6	32.8	38.5	27.2	30.6	23.8	107.5	63.4
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°
1816.8	0°	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8
1839.5	2.5°	1825.9	1807.8	1776.1	1746.6	1720.6	1694.6	1678.7	1656.1	1653.8	1653.8
1868.9	5°	1838.3	1808.9	1752.3	1692.3	1623.2	1557.6	1491.9	1428.5	1408.2	1393.5
1916.4	7.5°	1874.5	1828.1	1738.7	1624.4	1493.1	1349.3	1248.6	1139.9	1098.0	1075.4
1979.8	10°	1926.6	1863.2	1727.4	1527.0	1314.2	1118.4	974.6	856.9	811.6	792.4
2048.9	12.5°	1984.3	1906.2	1707.0	1405.9	1118.4	884.1	743.7	689.4	682.6	682.6
2131.5	15°	2053.4	1958.3	1671.9	1263.3	913.5	699.6	649.8	652.0	658.8	663.3
2211.9	17.5°	2124.7	2013.8	1616.5	1103.7	732.4	629.4	630.5	633.9	639.6	644.1
2299.0	20°	2201.7	2069.2	1542.9	933.9	628.2	609.0	612.4	615.8	620.3	622.6
2380.5	22.5°	2284.3	2121.3	1455.7	767.5	593.2	592.0	593.2	596.5	602.2	602.2
2475.6	25°	2372.6	2179.0	1356.1	646.4	575.0	575.0	577.3	579.6	584.1	584.1
2567.3	27.5°	2463.2	2232.2	1250.8	583.0	559.2	558.1	558.1	561.5	563.7	564.9
2657.9	30°	2562.8	2294.5	1145.6	569.4	546.7	541.1	537.7	539.9	542.2	543.3
2753.0	32.5°	2664.7	2354.5	1051.6	575.0	534.3	524.1	512.8	510.5	510.5	515.0
2851.4	35°	2777.9	2420.2	979.2	594.3	527.5	499.2	481.1	470.9	472.0	478.8
2969.2	37.5°	2913.7	2499.4	926.0	611.3	523.0	470.9	441.5	429.0	421.1	429.0
3131.0	40°	3091.4	2616.0	887.5	624.8	517.3	438.1	398.5	378.1	363.4	367.9
3382.3	42.5°	3352.9	2799.4	872.7	626.0	504.9	399.6	354.3	327.1	305.6	306.8
3760.4	45°	3719.7	3089.1	948.6	611.3	477.7	357.7	307.9	271.7	258.1	254.7
4325.3	47.5°	4222.2	3511.4	1124.0	580.7	438.1	317.0	262.6	232.1	221.9	216.2
5066.7	50°	4895.8	4053.6	1318.7	546.7	398.5	278.5	225.3	206.0	199.2	193.6
5946.2	52.5°	5676.8	4603.7	1478.4	512.8	358.8	244.5	201.5	190.2	184.5	180.0
6795.2	55°	6393.4	4982.9	1469.3	476.6	320.3	217.3	184.5	177.7	170.9	166.4
7526.5	57.5°	6839.4	5036.1	1211.2	436.9	276.2	195.8	168.7	164.1	156.2	150.6
8159.2	60°	7044.3	4732.8	849.0	384.9	232.1	175.5	151.7	149.4	139.2	131.3
8758.1	62.5°	7081.6	4169.0	566.0	320.3	193.6	156.2	134.7	131.3	117.7	104.1
9244.8	65°	6929.9	3363.1	391.7	250.2	165.3	135.8	115.5	108.7	94.0	80.4
9360.3	67.5°	6450.0	2361.3	272.8	180.0	140.4	107.5	91.7	89.4	78.1	66.8
8771.6	70°	5570.4	1345.9	182.2	134.7	110.9	73.6	72.4	74.7	63.4	54.3
7166.5	72.5°	4270.9	615.8	113.2	98.5	75.8	49.8	57.7	58.9	48.7	40.8
4471.3	75°	2514.1	263.7	71.3	63.4	38.5	32.8	41.9	43.0	32.8	26.0
1634.6	77.5°	855.8	99.6	45.3	37.4	19.2	18.1	27.2	27.2	18.1	10.2
328.3	80°	194.7	37.4	22.6	14.7	9.1	7.9	9.1	7.9	4.5	1.1
100.7	82.5°	55.5	14.7	9.1	5.7	3.4	3.4	1.1	0.0	0.0	0.0
35.1	85°	15.8	6.8	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
12.5	87.5°	6.8	1.1	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

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<u>180°</u>
1816.8
1659.5
1400.2
1078.8
792.4
682.6
663.3
644.1
623.7
604.5
585.2
566.0
545.6
518.4
482.2
426.8
365.6
302.2
250.2
212.8
192.4
178.9
164.1
149.4
129.0
97.3
75.8
63.4
49.8
36.2
22.6
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