

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: P946145

Luminaire Tested: **GALN-SB1D-850-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946145  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-850-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

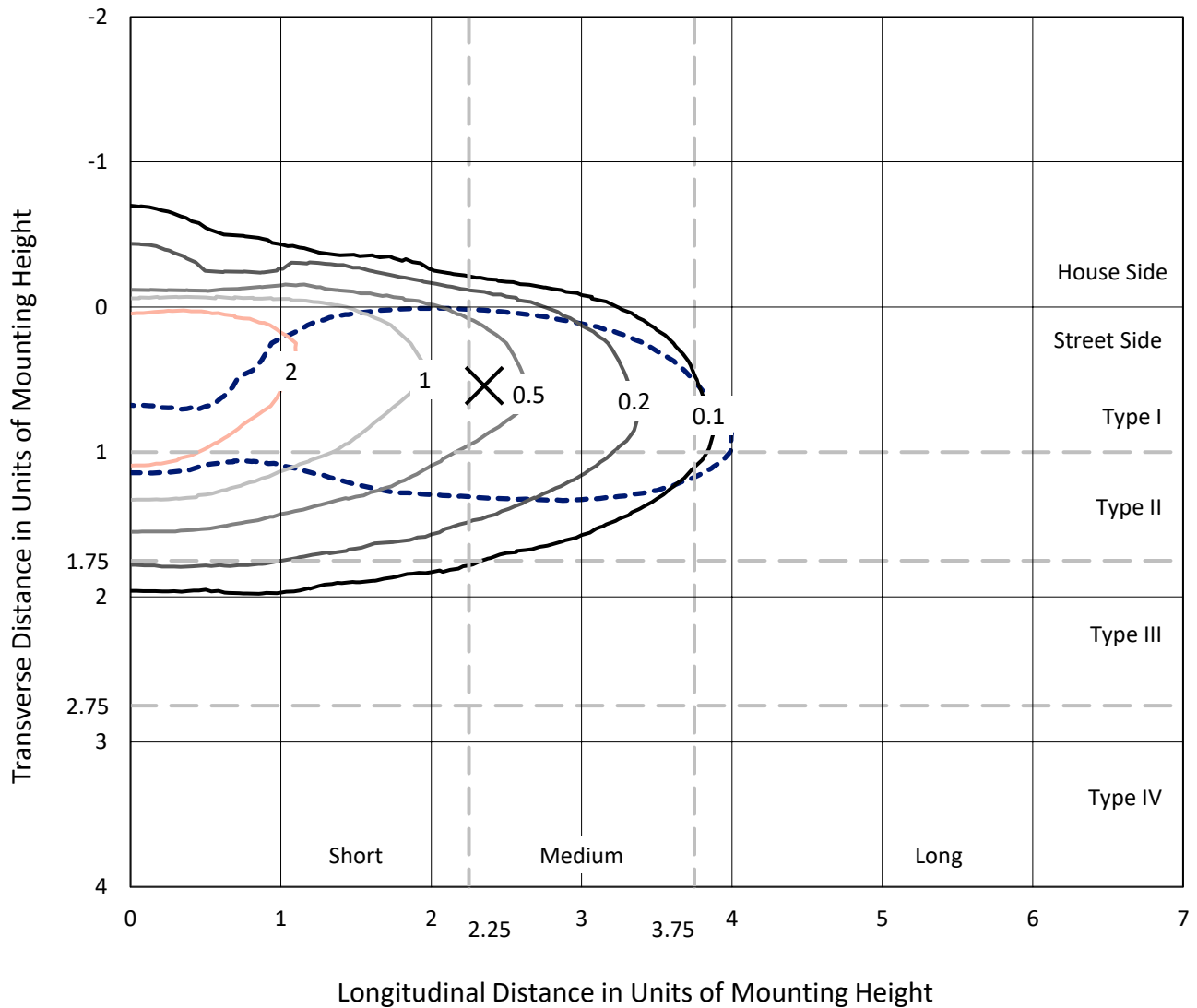
Lumens per Lamp: N/A  
Luminaire Lumens: 8244 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

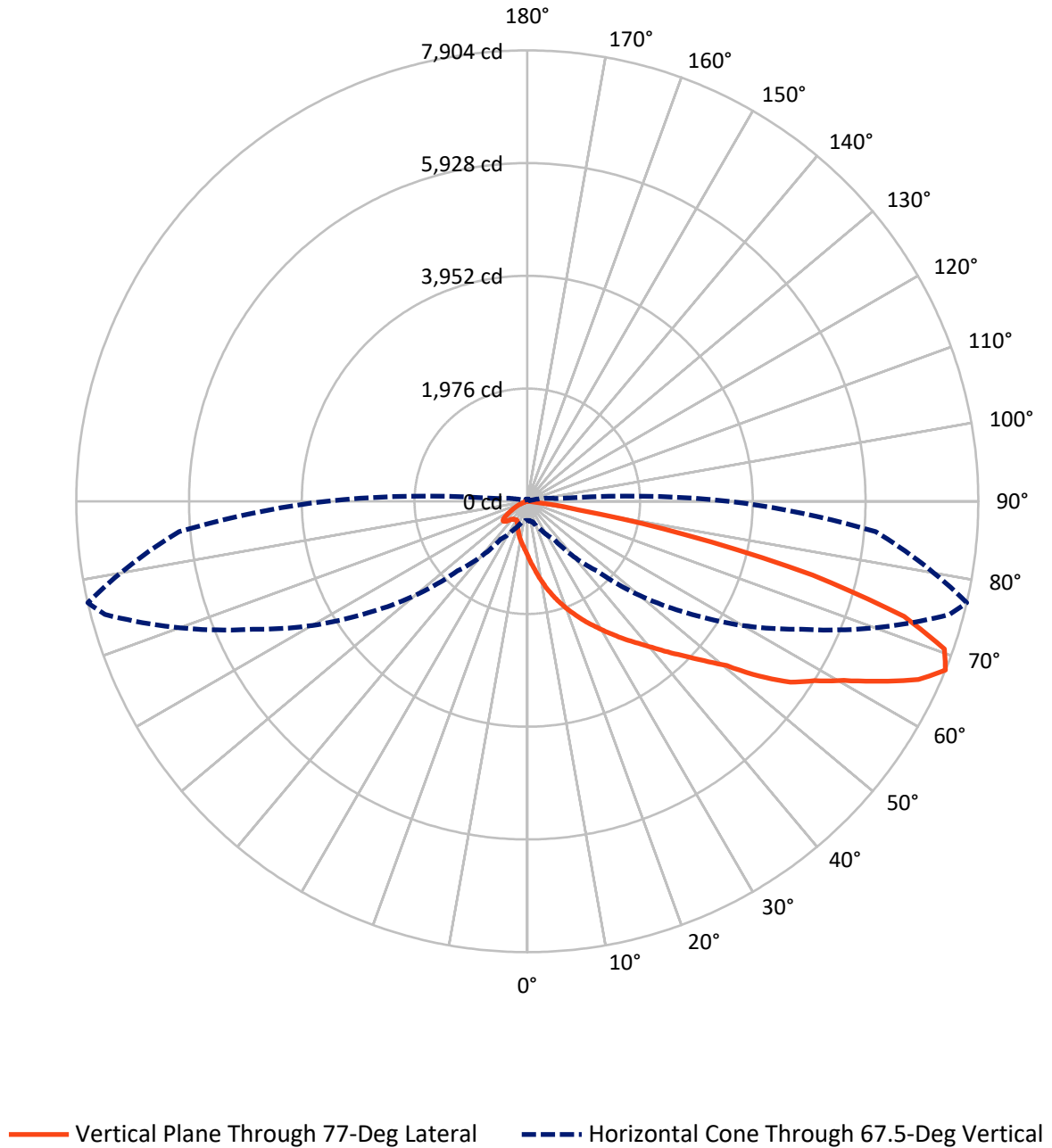
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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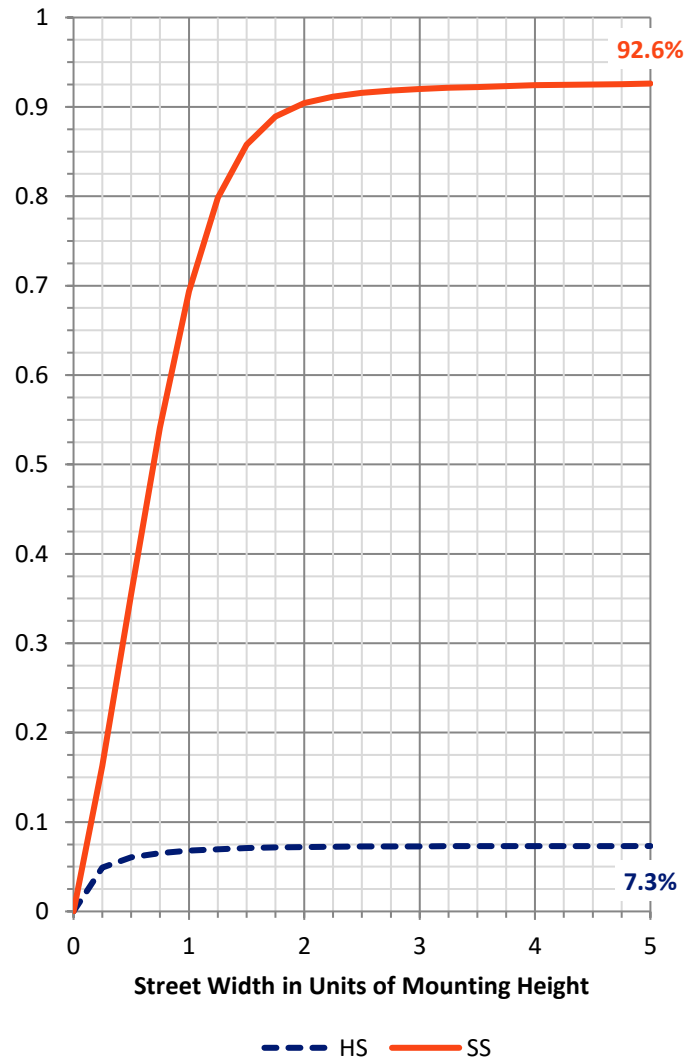
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	606.5	0.0	606.5
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	7637.5	0.0	7637.5
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	8244.0	0.0	8244.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.0	1.2
10°-20°	339.8	4.1
20°-30°	655.7	8.0
30°-40°	1138.3	13.8
40°-50°	1652.8	20.0
50°-60°	1898.0	23.0
60°-70°	1647.8	20.0
70°-80°	776.1	9.4
80°-90°	38.4	0.5
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°	8244.0	100.0
0°-180°	8244.0	100.0

**Coefficient of Utilization**



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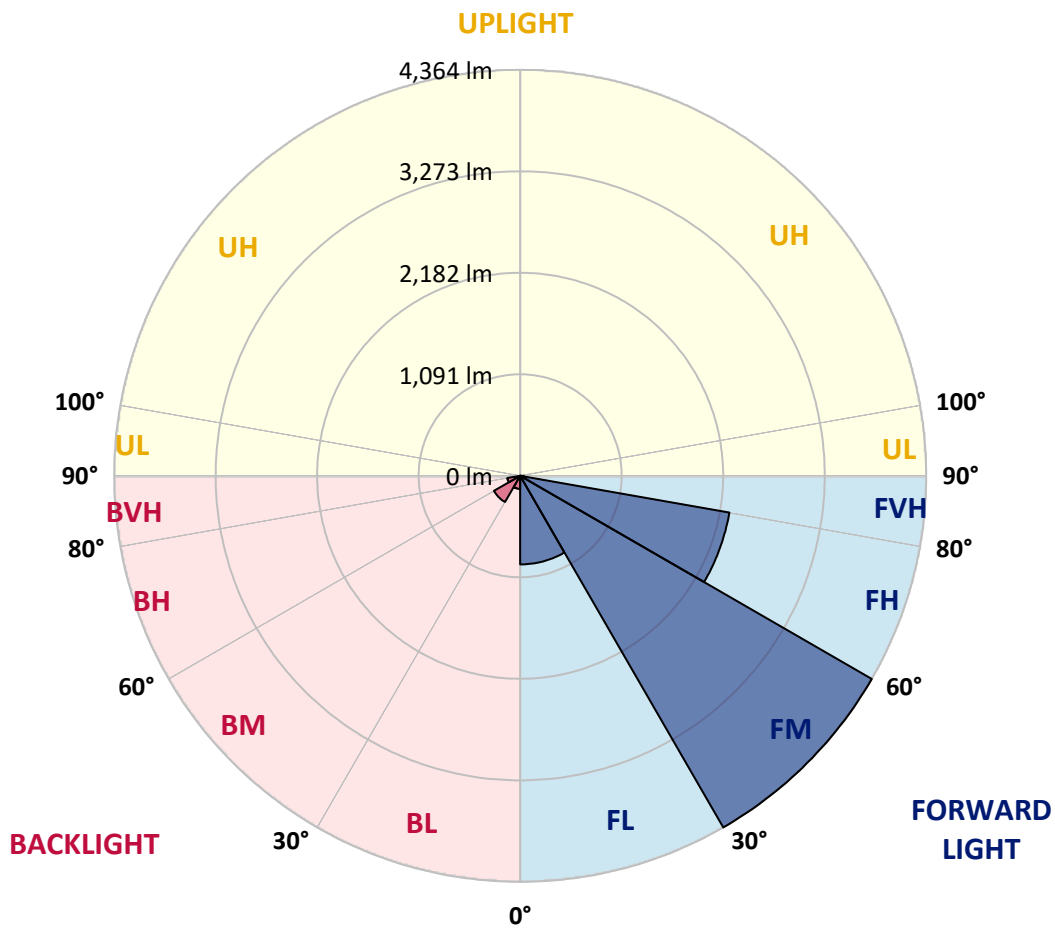
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	952.1	11.5			
FM (30°-60°)	4364.2	52.9			
FH (60°-80°)	2283.6	27.7			G2/5000
FVH (80°-90°)	37.7	0.5			G1/100
BL (0°-30°)	140.4	1.7	B1/500		
BM (30°-60°)	325.0	3.9	B1/1000		
BH (60°-80°)	140.4	1.7	B1/500		G1/500
BVH (80°-90°)	0.7	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-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7
2.5°	1316.2	1324.4	1312.6	1290.1	1256.3	1234.3	1180.5	1129.8	1073.5	1055.6
5°	1604.4	1611.6	1598.2	1573.7	1528.6	1485.6	1415.0	1309.0	1198.9	1163.6
7.5°	1817.9	1822.0	1816.8	1794.3	1751.3	1702.7	1623.8	1498.4	1335.1	1296.2
10°	1971.4	1984.8	1983.2	1974.5	1945.8	1906.4	1822.5	1679.6	1487.7	1437.5
12.5°	2073.3	2088.2	2096.9	2116.3	2114.8	2089.7	2016.0	1865.0	1639.7	1580.8
15°	2103.0	2118.9	2152.2	2197.2	2237.1	2249.9	2198.2	2046.7	1807.1	1731.9
17.5°	2086.1	2110.7	2150.6	2221.8	2309.3	2367.2	2361.5	2222.3	1959.2	1873.2
20°	2123.5	2147.0	2178.3	2238.2	2340.0	2445.0	2487.0	2390.2	2110.2	2020.1
22.5°	2330.3	2326.2	2329.3	2339.0	2399.9	2503.9	2590.4	2542.8	2259.7	2167.5
25°	2657.9	2639.5	2608.3	2555.6	2540.2	2590.4	2680.5	2677.9	2417.3	2318.5
27.5°	3033.7	3030.6	2957.4	2830.5	2758.8	2739.3	2782.3	2809.5	2573.5	2468.0
30°	3393.6	3401.8	3303.0	3161.7	3030.1	2953.8	2914.9	2934.4	2732.2	2629.3
32.5°	3706.9	3715.6	3608.1	3442.7	3279.9	3187.8	3105.9	3057.8	2905.2	2793.1
35°	3971.6	3980.3	3856.9	3674.1	3500.6	3417.1	3324.5	3192.9	3079.3	2974.8
37.5°	4208.1	4205.5	4040.2	3855.9	3685.4	3619.3	3570.7	3359.3	3258.4	3157.6
40°	4347.8	4358.6	4217.3	4014.0	3848.7	3800.6	3797.5	3565.6	3465.3	3367.5
42.5°	4388.8	4407.7	4305.3	4138.4	3988.4	3936.2	4016.6	3788.8	3705.9	3610.6
45°	4315.1	4333.5	4286.9	4171.2	4083.7	4049.9	4205.0	4020.2	3962.9	3868.7
47.5°	4100.0	4123.1	4134.3	4109.8	4108.8	4143.1	4373.9	4263.9	4268.0	4171.7
50°	3683.8	3722.8	3826.2	3913.2	4047.8	4216.8	4538.3	4528.0	4612.0	4529.0
52.5°	2927.2	2982.5	3338.8	3576.9	3879.4	4202.9	4719.0	4951.9	5215.5	5094.2
55°	2352.3	2352.3	2642.1	3087.5	3550.7	4111.8	4797.8	5227.3	5626.6	5598.0
57.5°	1917.7	1940.7	2125.5	2519.2	3075.2	3894.8	4846.4	5400.4	5957.8	5936.9
60°	1183.6	1233.2	1582.4	1970.9	2534.1	3508.3	4815.7	5575.4	6359.7	6376.6
62.5°	666.5	685.0	840.6	1418.0	1970.4	2988.6	4580.8	5673.2	6873.7	6945.4
65°	460.2	469.4	529.3	882.6	1365.8	2379.5	4121.6	5612.3	7388.7	7533.6
67.5°	334.3	338.9	376.3	539.1	810.4	1725.2	3401.8	5305.1	7661.5	7903.7
70°	257.0	260.1	287.2	354.3	478.7	1064.8	2470.6	4694.4	7463.9	7753.2
72.5°	208.9	211.9	232.9	262.1	317.4	629.7	1497.4	3812.3	6591.6	6903.9
75°	176.1	180.2	199.1	218.1	248.8	404.4	702.4	2654.9	4957.0	5161.8
77.5°	97.8	90.1	161.8	180.7	209.9	256.0	328.7	1562.4	2776.2	2833.0
80°	60.9	63.0	128.5	145.4	161.3	129.0	150.5	601.5	962.4	914.3
82.5°	3.6	8.2	98.8	104.9	110.6	55.3	56.8	204.3	231.9	213.0
85°	0.0	0.0	45.0	36.3	38.4	15.9	16.4	47.6	31.2	33.8
87.5°	0.0	0.0	0.0	1.0	0.0	1.5	3.1	4.1	1.5	2.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
950.7	0°	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7
999.3	2.5°	963.5	927.6	854.9	783.8	725.9	672.2	633.8	597.4	579.0	578.0
1063.8	5°	992.6	917.4	772.0	643.5	540.1	457.2	403.4	365.0	345.6	338.9
1143.1	7.5°	1033.6	920.5	699.3	520.6	398.8	327.6	296.9	284.6	280.5	275.9
1232.7	10°	1085.3	927.6	634.3	419.3	314.3	278.5	266.2	261.1	258.0	254.9
1333.6	12.5°	1143.1	934.3	569.8	348.1	276.4	258.0	249.3	243.2	239.1	235.5
1437.0	15°	1199.5	938.4	502.7	298.5	257.0	242.1	232.9	226.3	220.6	216.5
1538.4	17.5°	1255.3	944.0	439.7	268.8	241.1	226.3	217.1	208.9	204.3	199.7
1644.8	20°	1317.2	943.0	380.4	247.8	225.2	210.4	200.7	193.0	188.4	183.3
1757.5	22.5°	1374.5	937.9	328.1	229.9	208.9	194.5	183.8	176.1	171.5	167.4
1872.6	25°	1440.6	933.8	284.6	213.5	193.5	179.2	167.4	160.2	155.1	151.5
1988.3	27.5°	1504.1	927.6	252.9	198.6	178.7	164.8	153.6	145.4	140.8	138.2
2107.6	30°	1566.5	926.1	241.1	184.3	165.4	151.5	140.3	132.6	129.0	128.0
2238.7	32.5°	1641.8	930.2	246.2	179.2	153.1	139.2	128.5	122.9	119.3	119.3
2384.6	35°	1722.1	929.2	253.9	183.8	144.9	127.0	118.8	115.2	111.6	111.6
2546.3	37.5°	1823.0	930.7	260.1	191.5	141.8	116.7	112.1	107.5	105.5	105.5
2723.5	40°	1973.5	981.4	257.0	198.1	140.8	109.6	100.3	98.8	97.3	97.3
2923.6	42.5°	2157.8	1091.4	261.1	198.6	140.3	104.4	92.1	95.2	91.6	91.1
3149.4	45°	2359.5	1211.7	287.2	187.9	139.8	101.9	88.1	91.6	86.0	86.0
3411.0	47.5°	2559.7	1331.0	313.8	172.5	138.2	101.4	84.5	82.4	80.9	81.4
3751.9	50°	2835.6	1428.3	324.1	151.5	134.6	100.3	77.8	78.3	77.3	78.3
4232.6	52.5°	3136.1	1448.8	311.8	128.0	124.4	97.3	73.2	75.3	74.7	75.8
4571.0	55°	3323.5	1426.7	257.5	106.5	108.5	85.0	68.6	72.7	72.7	72.7
4901.7	57.5°	3517.0	1333.1	182.8	86.5	90.1	69.6	64.5	70.1	69.6	69.1
5300.0	60°	3656.2	1181.5	120.3	71.2	71.7	57.3	59.9	66.0	65.5	63.0
5710.6	62.5°	3760.1	1014.1	77.3	60.4	54.8	51.7	54.8	59.9	57.8	52.2
6058.7	65°	3748.4	782.2	59.4	51.7	45.0	45.0	47.6	52.2	46.1	36.9
6125.2	67.5°	3529.8	529.3	49.1	43.5	37.9	37.4	39.4	43.5	39.4	31.2
5784.3	70°	3139.2	346.1	39.4	33.8	30.2	27.6	31.7	37.4	33.3	25.1
4924.3	72.5°	2547.9	210.9	29.7	24.6	22.0	17.9	25.1	30.7	26.6	18.4
3424.3	75°	1648.4	107.5	20.5	15.9	11.8	10.8	18.4	23.0	18.4	11.3
1519.4	77.5°	630.7	45.0	11.3	7.2	6.1	5.1	10.2	13.8	7.7	2.6
294.4	80°	121.3	18.9	5.6	3.6	3.1	2.0	1.5	1.0	0.0	0.0
52.2	82.5°	21.0	6.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
10.2	85°	7.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.6	87.5°	2.6	0.0	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

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180°  
950.7  
576.9  
337.9  
274.9  
253.9  
234.5  
216.0  
199.1  
182.8  
166.9  
151.0  
138.2  
127.5  
119.3  
111.6  
105.5  
97.3  
90.6  
86.0  
81.4  
78.3  
75.8  
72.7  
69.1  
63.0  
51.2  
35.8  
30.2  
24.1  
17.4  
9.7  
2.0  
0.0  
0.0  
0.0  
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0.0

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