

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: P942956

Luminaire Tested: **GALN-SB7A-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17405 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

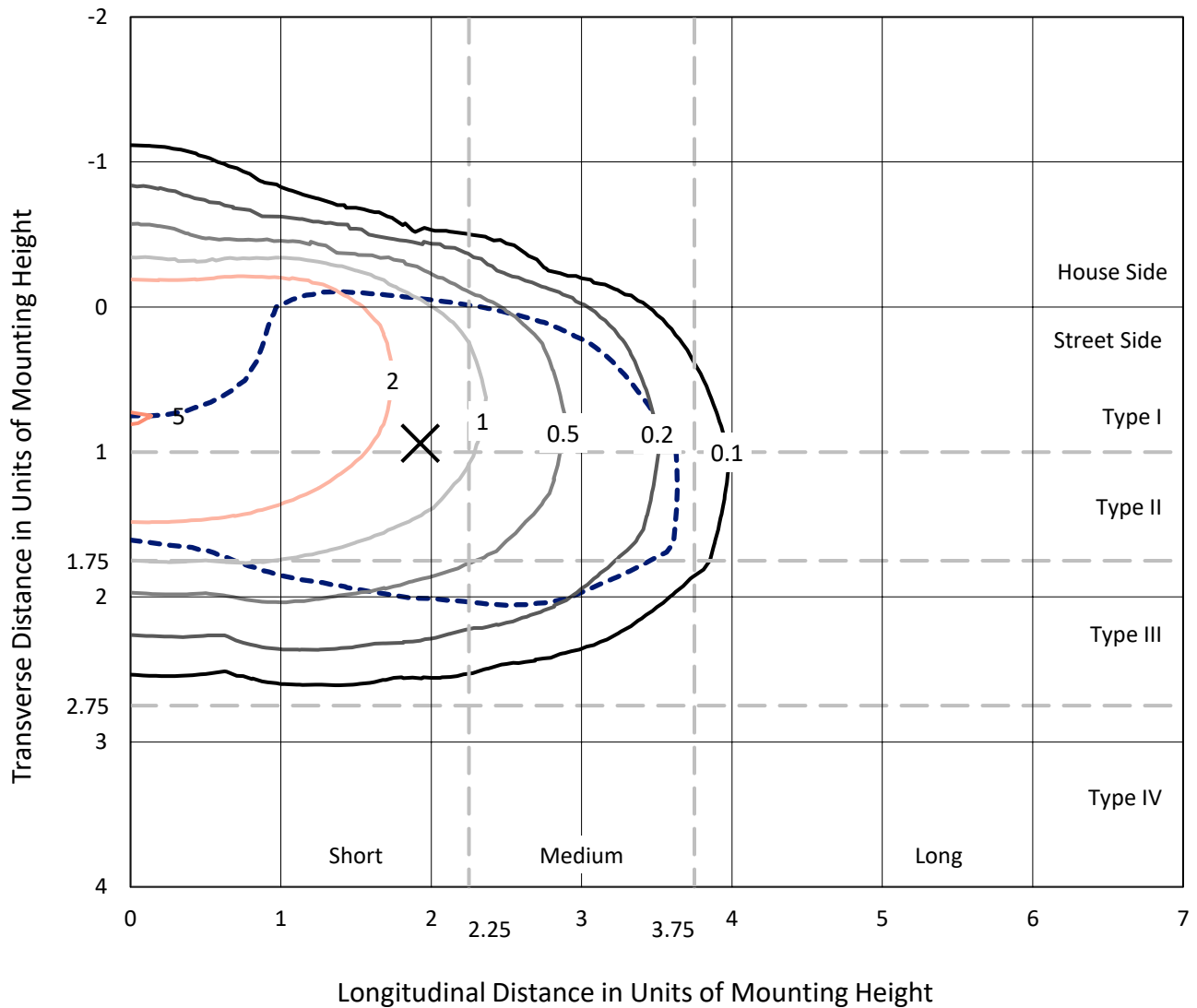
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

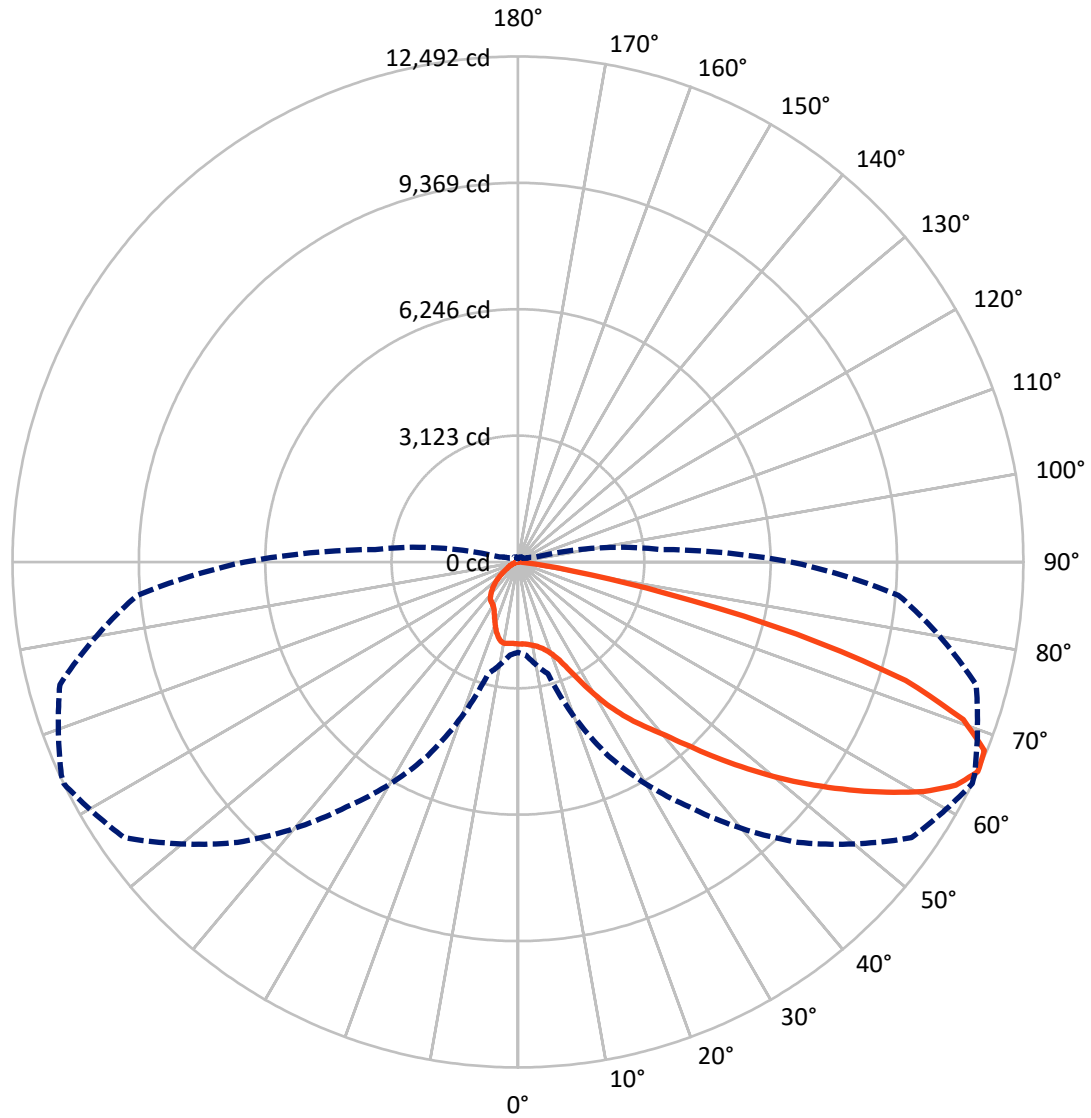
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2327.6	0.0	2327.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	15077.4	0.0	15077.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	17405.0	0.0	17405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	1.1
10°-20°	506.6	2.9
20°-30°	959.9	5.5
30°-40°	1942.4	11.2
40°-50°	3308.9	19.0
50°-60°	4499.9	25.9
60°-70°	4225.6	24.3
70°-80°	1692.9	9.7
80°-90°	82.0	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°	17405.0	100.0
0°-180°	17405.0	100.0

Coefficient of Utilization



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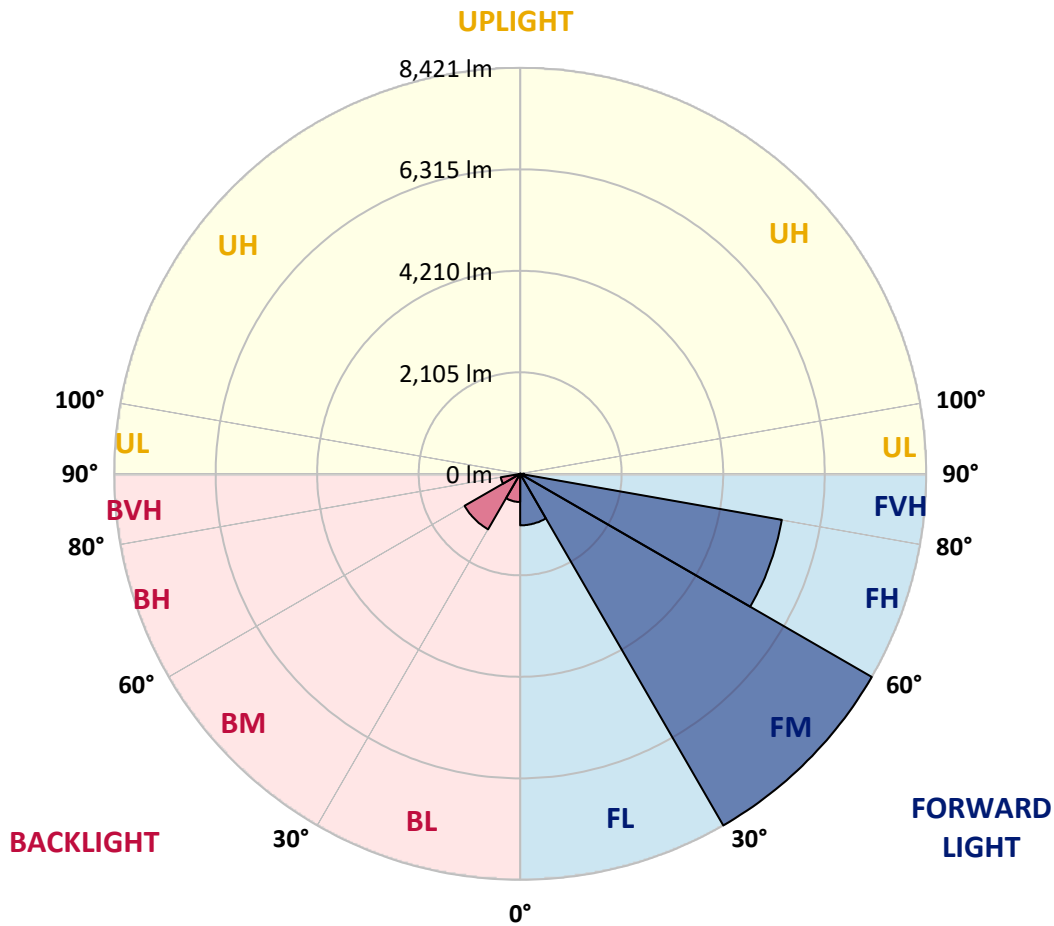
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.9	6.1			
FM (30°-60°)	8420.5	48.4			
FH (60°-80°)	5510.0	31.7			G3/7500
FVH (80°-90°)	78.0	0.4			G1/100
BL (0°-30°)	584.4	3.4	B2/1000		
BM (30°-60°)	1330.7	7.6	B2/2500		
BH (60°-80°)	408.5	2.3	B1/500		G1/500
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2024.4	2024.4	2024.4	2024.4	2024.4	2024.4	2024.4	2024.4	2024.4	2024.4
2.5°	2017.4	2031.4	2027.9	2024.4	2023.2	2025.5	2026.7	2025.5	2025.5	2025.5
5°	1978.9	1990.5	1990.5	1998.7	2010.4	2024.4	2034.9	2037.2	2039.6	2043.1
7.5°	1905.4	1914.7	1921.7	1948.5	1977.7	2015.0	2046.6	2062.9	2065.2	2078.1
10°	1855.2	1866.9	1878.5	1906.5	1948.5	2004.5	2058.2	2097.9	2103.7	2134.1
12.5°	1852.9	1864.5	1879.7	1910.0	1959.0	2018.5	2083.9	2141.1	2151.6	2195.9
15°	1877.4	1891.4	1905.4	1942.7	1995.2	2067.6	2137.6	2208.7	2219.2	2282.2
17.5°	1927.5	1946.2	1956.7	1994.0	2050.1	2130.6	2222.7	2304.4	2313.7	2387.3
20°	2026.7	2048.9	2052.4	2082.7	2137.6	2223.9	2333.6	2435.1	2446.8	2530.8
22.5°	2232.1	2263.6	2235.6	2250.7	2299.7	2386.1	2505.1	2633.4	2649.8	2745.5
25°	2593.8	2638.1	2565.8	2540.1	2561.1	2650.9	2800.3	2962.5	2981.2	3058.2
27.5°	3304.4	3247.2	3137.5	3030.2	2967.1	3018.5	3186.5	3387.2	3410.5	3485.2
30°	4084.9	4034.8	3886.6	3648.6	3499.2	3491.0	3646.2	3870.2	3897.1	3968.3
32.5°	4866.7	4818.8	4657.8	4365.0	4105.9	3977.6	4084.9	4333.5	4347.5	4393.0
35°	5635.6	5586.6	5425.6	5125.7	4807.2	4515.5	4494.5	4774.5	4779.2	4827.0
37.5°	6409.2	6368.3	6196.8	5902.8	5588.9	5186.4	4991.5	5192.2	5198.1	5244.7
40°	6961.1	6978.6	6860.7	6633.2	6363.7	5923.8	5549.3	5636.8	5601.8	5679.9
42.5°	7434.8	7469.8	7367.1	7252.8	7096.4	6709.0	6240.0	6224.8	6168.8	6210.8
45°	7844.3	7873.5	7781.3	7754.5	7751.0	7479.1	6994.9	6903.9	6825.7	6817.6
47.5°	7994.9	8050.9	8090.5	8180.4	8355.4	8241.0	7775.5	7634.3	7546.8	7482.6
50°	8052.0	8111.5	8246.9	8508.2	8922.5	8971.5	8552.6	8393.9	8286.5	8169.9
52.5°	7975.0	8081.2	8263.2	8703.1	9304.0	9557.2	9298.2	9159.3	9036.8	8846.6
55°	7521.1	7627.3	7999.5	8700.8	9494.2	9967.9	10002.9	9941.1	9803.4	9503.5
57.5°	6564.4	6721.9	7311.1	8404.4	9490.7	10321.4	10693.6	10738.0	10584.0	10154.6
60°	5238.9	5452.4	6171.2	7747.5	9197.8	10512.8	11299.2	11520.9	11357.5	10796.3
62.5°	3655.6	3902.9	4583.2	6718.4	8528.1	10375.1	11741.4	12151.0	12027.3	11370.4
65°	2229.7	2309.1	2857.5	5286.7	7389.3	9798.7	11877.9	12491.7	12450.8	11721.6
67.5°	1485.3	1551.8	1709.3	3625.2	5735.9	8647.1	11551.2	12432.2	12443.8	11664.4
70°	894.9	952.1	1054.8	2108.4	3717.4	6844.4	10539.6	11673.7	11741.4	10900.2
72.5°	368.7	407.2	500.6	955.6	1925.2	4344.0	8392.7	10022.7	10180.3	9165.1
75°	208.9	228.7	294.0	479.6	835.4	2024.4	5083.7	7115.1	7347.3	6317.0
77.5°	138.8	148.2	190.2	310.4	470.2	690.7	2172.6	3706.9	4150.3	3450.2
80°	93.3	101.5	130.7	207.7	305.7	296.4	691.9	1373.3	1689.5	1185.5
82.5°	63.0	64.2	93.3	136.5	193.7	143.5	204.2	427.0	536.7	343.0
85°	36.2	35.0	68.8	79.3	86.3	59.5	61.8	128.3	168.0	144.7
87.5°	4.7	7.0	26.8	21.0	11.7	12.8	12.8	22.2	32.7	35.0
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°
2024.4	0°	2024.4	2024.4	2024.4	2024.4	2024.4	2024.4	2024.4	2024.4	2024.4	2024.4
2026.7	2.5°	2026.7	2025.5	2022.0	2018.5	2010.4	2005.7	2008.0	2005.7	2004.5	2005.7
2041.9	5°	2041.9	2038.4	2029.0	2017.4	2001.0	1981.2	1968.4	1949.7	1932.2	1921.7
2082.7	7.5°	2082.7	2079.2	2066.4	2033.7	1981.2	1898.4	1822.5	1756.0	1705.8	1676.7
2148.1	10°	2148.1	2142.2	2122.4	2050.1	1912.4	1731.5	1581.0	1456.2	1374.5	1336.0
2225.1	12.5°	2225.1	2218.1	2183.1	2034.9	1781.7	1499.3	1291.6	1152.8	1076.9	1043.1
2313.7	15°	2316.1	2306.7	2237.9	1962.5	1591.5	1242.6	1052.4	948.6	899.6	869.3
2426.9	17.5°	2429.3	2412.9	2278.7	1854.0	1385.0	1046.6	905.4	827.3	784.1	754.9
2575.1	20°	2576.3	2549.4	2311.4	1724.5	1194.8	922.9	806.3	740.9	708.2	682.6
2785.1	22.5°	2781.6	2743.1	2351.1	1584.5	1060.6	837.8	732.7	684.9	658.1	628.9
3078.0	25°	3036.0	2990.5	2400.1	1455.0	968.4	764.2	679.1	639.4	607.9	574.1
3461.9	27.5°	3391.9	3310.2	2458.4	1348.8	889.1	701.2	630.1	585.7	549.6	521.6
3897.1	30°	3788.6	3654.4	2509.8	1284.6	816.8	642.9	565.9	521.6	487.7	467.9
4288.0	32.5°	4164.3	3982.3	2543.6	1256.6	751.4	576.4	495.9	448.0	422.4	416.5
4670.7	35°	4519.0	4278.6	2540.1	1229.8	693.1	509.9	427.0	378.0	358.2	361.7
5082.5	37.5°	4927.4	4594.8	2515.6	1187.8	645.2	449.2	367.5	324.4	306.9	308.0
5583.1	40°	5402.2	4960.0	2500.4	1108.5	592.7	393.2	318.5	283.5	270.7	266.0
6110.5	42.5°	5908.6	5313.6	2502.8	1018.6	527.4	343.0	284.7	255.5	243.9	240.4
6697.4	45°	6417.4	5650.8	2506.3	925.3	458.5	304.5	260.2	235.7	228.7	224.0
7292.4	47.5°	6895.7	5937.8	2440.9	824.9	390.9	275.4	240.4	224.0	218.2	212.4
7889.8	50°	7341.4	6129.2	2283.4	708.2	337.2	252.0	225.2	213.5	207.7	201.9
8431.2	52.5°	7688.0	6159.5	2023.2	588.1	299.9	234.5	215.9	205.4	198.4	192.5
8868.8	55°	7842.0	5969.3	1653.3	476.1	270.7	219.4	206.5	196.0	187.9	182.0
9213.0	57.5°	7802.3	5569.1	1289.3	382.7	242.7	204.2	194.9	187.9	178.5	169.2
9491.8	60°	7607.5	5033.5	971.9	318.5	217.0	187.9	182.0	176.2	163.4	149.3
9599.2	62.5°	7270.3	4360.3	693.1	263.7	189.0	169.2	166.9	162.2	143.5	117.8
9440.5	65°	6754.6	3542.4	466.7	219.4	162.2	148.2	149.3	141.2	116.7	87.5
8859.4	67.5°	6000.8	2590.3	298.7	179.7	135.3	123.7	124.8	120.2	99.2	74.7
7758.0	70°	5040.5	1715.2	194.9	136.5	108.5	95.7	102.7	103.8	84.0	60.7
5954.1	72.5°	3695.2	1012.8	136.5	101.5	79.3	66.5	84.0	86.3	67.7	45.5
3582.0	75°	2106.1	480.7	102.7	73.5	49.0	46.7	65.3	65.3	46.7	30.3
1550.7	77.5°	884.4	200.7	72.3	47.8	28.0	26.8	44.3	40.8	23.3	14.0
378.0	80°	255.5	89.8	38.5	23.3	11.7	10.5	17.5	12.8	5.8	2.3
143.5	82.5°	100.3	39.7	15.2	9.3	4.7	4.7	2.3	0.0	0.0	0.0
81.7	85°	59.5	16.3	7.0	3.5	1.2	0.0	0.0	0.0	0.0	0.0
17.5	87.5°	15.2	3.5	2.3	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>
2024.4
2010.4
1924.0
1677.8
1332.5
1039.6
870.4
752.6
677.9
624.2
570.6
515.7
464.4
420.0
361.7
312.7
264.9
239.2
224.0
212.4
201.9
191.4
180.9
168.0
147.0
115.5
85.2
71.2
58.3
43.2
28.0
14.0
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