

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: P950851

Luminaire Tested: **GALN-SB5A-935-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-935-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12047 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

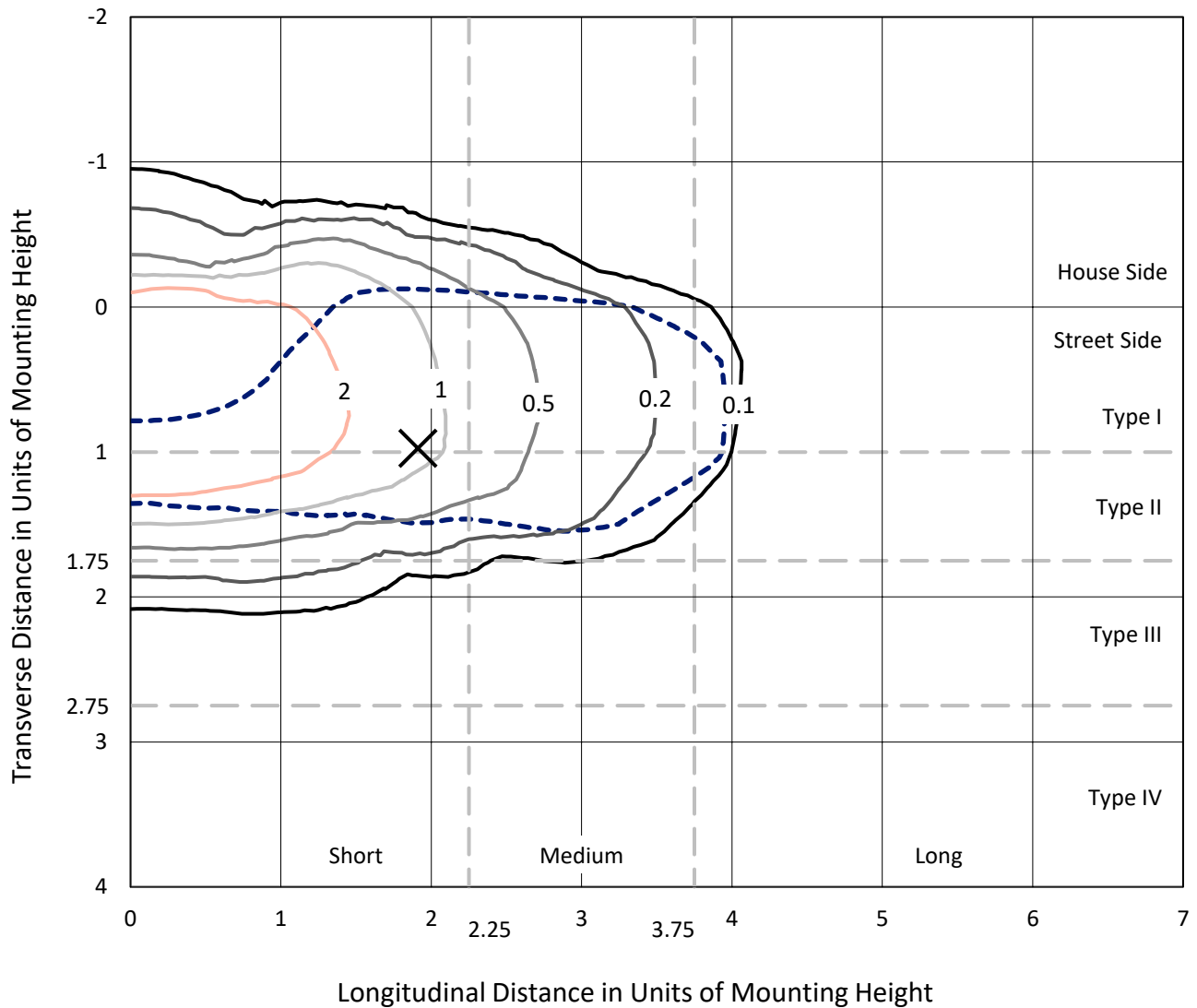
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

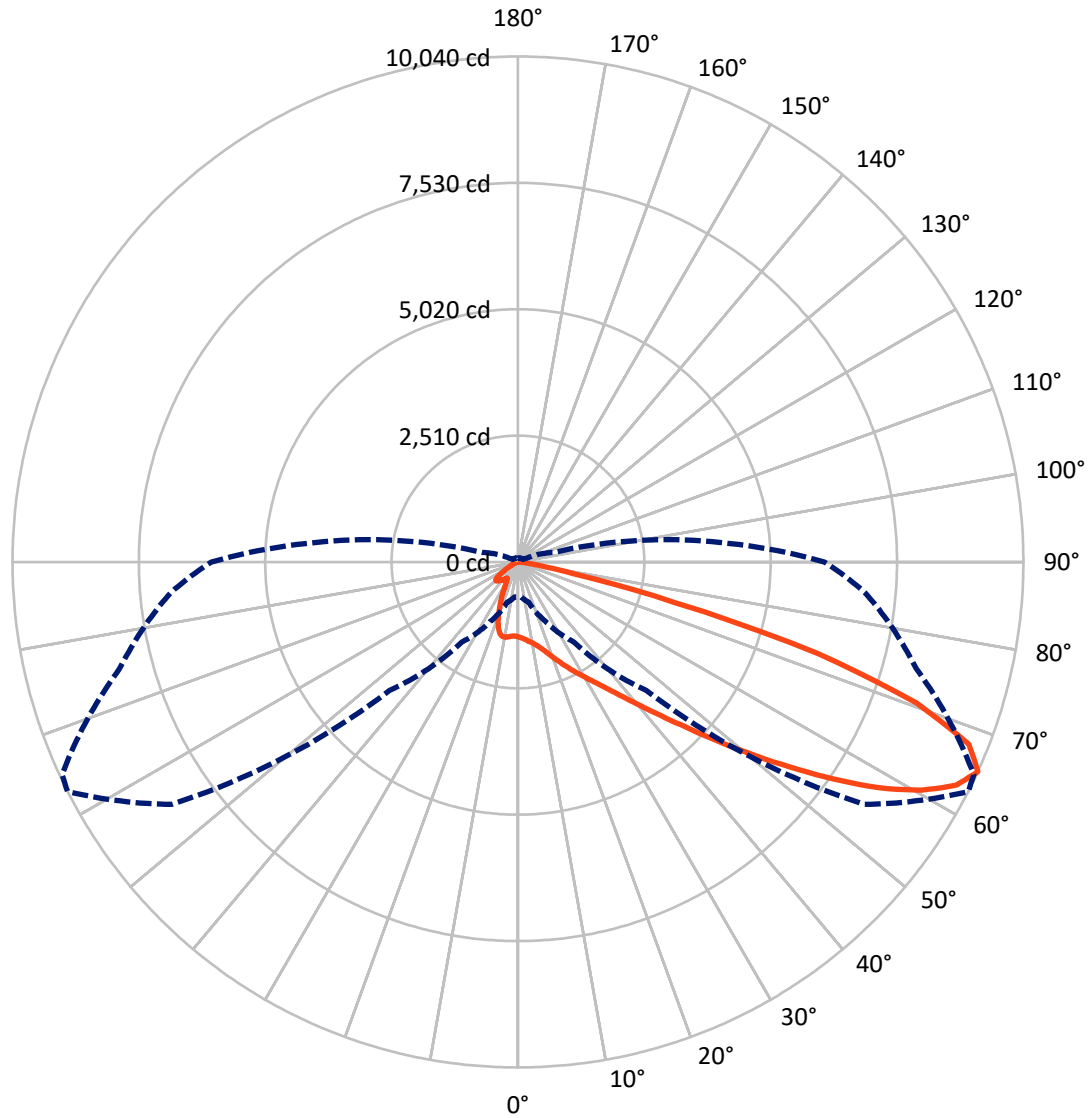
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1770.8	0.0	1770.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10276.2	0.0	10276.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	12047.0	0.0	12047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	1.2
10°-20°	388.7	3.2
20°-30°	676.8	5.6
30°-40°	1219.9	10.1
40°-50°	2419.4	20.1
50°-60°	3295.6	27.4
60°-70°	2630.6	21.8
70°-80°	1190.4	9.9
80°-90°	85.6	0.7
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°	12047.0	100.0
0°-180°	12047.0	100.0

Coefficient of Utilization



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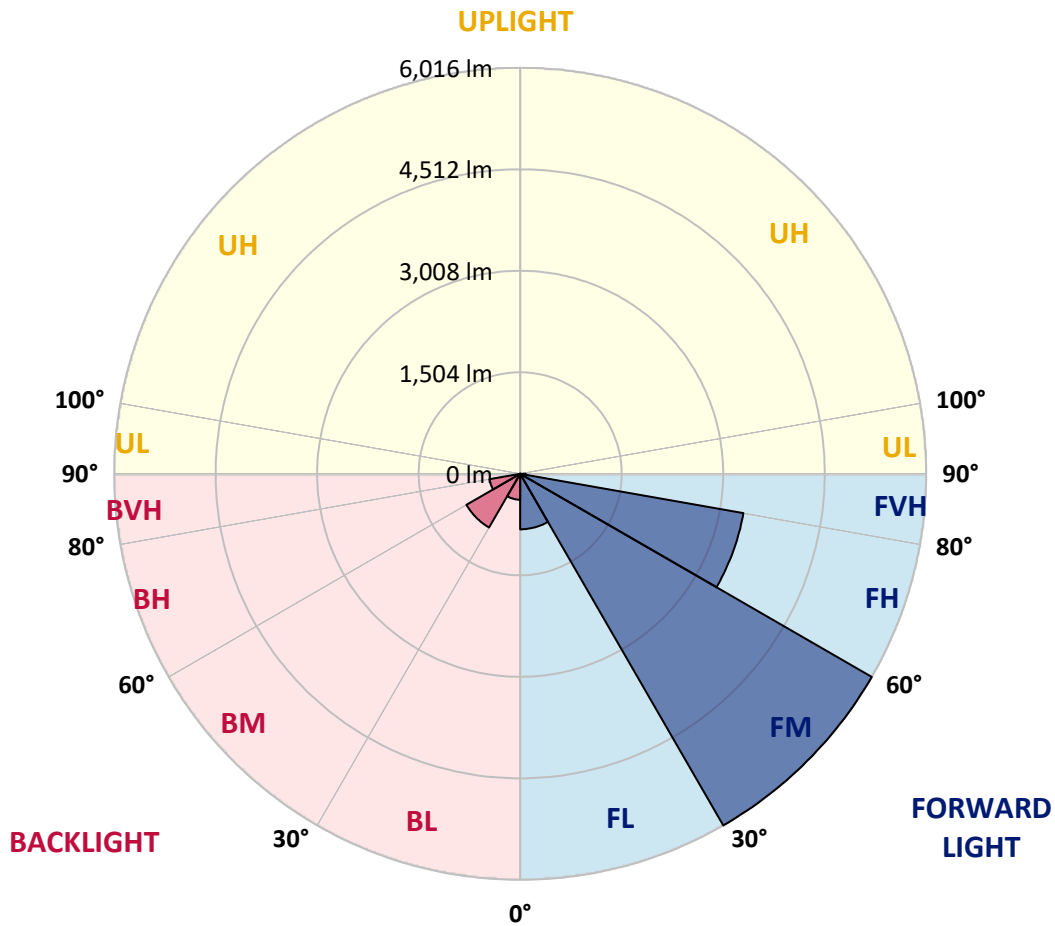
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.4	6.8			
FM (30°-60°)	6016.0	49.9			
FH (60°-80°)	3358.6	27.9			G2/5000
FVH (80°-90°)	79.2	0.7			G1/100
BL (0°-30°)	383.2	3.2	B1/500		
BM (30°-60°)	918.9	7.6	B1/1000		
BH (60°-80°)	462.3	3.8	B1/500		G1/500
BVH (80°-90°)	6.4	0.1			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8
2.5°	1521.6	1517.5	1523.3	1520.8	1519.1	1515.8	1514.2	1512.5	1509.2	1506.7
5°	1525.8	1523.3	1529.1	1534.1	1539.0	1544.0	1546.5	1549.8	1546.5	1539.9
7.5°	1491.0	1489.3	1501.7	1516.7	1539.0	1558.1	1578.8	1590.4	1591.3	1588.8
10°	1488.5	1484.3	1496.8	1515.0	1544.0	1578.0	1614.5	1639.3	1642.6	1653.4
12.5°	1527.4	1523.3	1540.7	1560.6	1590.4	1626.1	1670.8	1705.6	1710.6	1725.5
15°	1592.9	1587.1	1607.0	1632.7	1670.8	1711.4	1758.7	1790.2	1794.3	1812.5
17.5°	1669.2	1663.4	1686.6	1713.9	1755.4	1810.9	1865.6	1900.4	1905.4	1917.0
20°	1767.0	1759.5	1777.7	1802.6	1846.5	1912.8	1978.3	2028.0	2027.2	2027.2
22.5°	1880.5	1868.9	1884.6	1904.5	1946.0	2026.4	2113.4	2172.2	2172.2	2149.0
25°	2002.3	1990.7	2008.1	2026.4	2062.8	2154.0	2255.9	2328.9	2332.2	2292.4
27.5°	2154.8	2139.9	2153.2	2174.7	2196.3	2289.1	2410.1	2494.6	2496.3	2434.9
30°	2448.2	2405.9	2364.5	2341.3	2351.2	2443.2	2572.5	2666.2	2674.5	2589.9
32.5°	2985.3	2977.0	2831.1	2640.5	2541.0	2609.0	2754.0	2866.7	2871.7	2763.1
35°	3819.8	3809.9	3575.3	3212.3	2888.3	2831.1	2974.5	3107.9	3104.6	2981.9
37.5°	4816.0	4806.9	4497.8	4012.1	3487.5	3166.8	3258.8	3398.8	3419.5	3258.8
40°	5667.2	5633.2	5437.6	4969.4	4283.1	3723.7	3663.2	3756.0	3777.6	3587.0
42.5°	6312.0	6283.0	6183.5	5891.0	5246.2	4547.5	4139.7	4175.4	4199.4	3970.7
45°	6646.0	6639.3	6679.1	6651.8	6227.4	5558.6	4821.0	4672.6	4681.8	4395.8
47.5°	6693.2	6689.9	6871.4	7128.3	7071.1	6699.0	5695.4	5292.6	5260.3	4875.7
50°	6414.7	6408.1	6756.2	7237.7	7634.7	7657.1	6688.2	5991.2	5920.0	5372.1
52.5°	5525.5	5523.8	6095.7	6897.1	7832.8	8495.8	7669.5	6758.7	6639.3	5897.6
55°	4251.6	4282.3	4937.9	5885.2	7471.4	8899.4	8550.5	7610.7	7427.5	6426.3
57.5°	3011.8	3056.5	3704.6	4548.3	6350.9	8660.7	9146.4	8464.3	8267.1	6953.4
60°	1617.8	1657.6	2306.5	3313.5	4724.9	7770.6	9460.5	9205.2	9018.8	7454.0
62.5°	963.9	977.1	1245.7	2139.1	3195.8	5936.5	9327.1	9769.6	9616.3	7874.2
65°	692.0	694.5	829.6	1306.2	1940.2	3606.8	8391.4	10039.8	9992.6	8190.8
67.5°	582.6	581.0	637.3	867.7	1321.9	1806.7	6431.3	9657.7	9858.3	8391.4
70°	499.8	502.2	568.5	635.7	993.7	1022.7	3197.4	8408.8	8836.4	8444.4
72.5°	372.1	380.4	441.7	579.3	750.0	703.6	1103.9	6234.9	7008.1	7956.3
75°	262.7	266.9	310.8	487.3	559.4	512.2	563.6	3223.1	4214.3	6099.8
77.5°	202.2	209.7	235.4	340.6	551.1	359.7	344.8	1115.5	1713.9	3684.7
80°	109.4	122.7	169.9	246.1	387.0	254.4	170.7	444.2	581.0	1723.0
82.5°	56.4	63.0	118.5	177.4	220.5	222.1	84.5	184.8	239.5	532.1
85°	22.4	27.3	79.6	97.8	113.5	109.4	38.1	74.6	86.2	147.5
87.5°	5.0	8.3	29.0	22.4	21.5	23.2	9.1	17.4	16.6	17.4
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°
1486.8	0°	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8
1496.8	2.5°	1495.9	1492.6	1483.5	1473.6	1462.0	1455.3	1451.2	1450.4	1444.6	1440.4
1529.9	5°	1520.8	1517.5	1500.1	1479.4	1457.0	1439.6	1423.0	1408.1	1386.5	1382.4
1578.0	7.5°	1570.5	1561.4	1533.2	1505.1	1462.8	1412.2	1350.9	1280.5	1217.5	1198.4
1641.8	10°	1631.9	1619.4	1583.8	1534.1	1440.4	1302.8	1154.5	1016.9	907.5	876.8
1717.2	12.5°	1701.5	1690.7	1643.5	1551.5	1346.8	1097.3	870.2	699.5	593.4	566.9
1797.6	15°	1784.4	1768.6	1703.1	1525.0	1179.4	833.8	597.5	496.4	458.3	453.3
1889.6	17.5°	1872.2	1846.5	1756.2	1429.6	953.9	592.6	461.6	432.6	416.0	411.1
1982.4	20°	1952.6	1919.4	1787.7	1285.4	712.7	461.6	413.6	394.5	379.6	373.8
2075.3	22.5°	2033.0	1985.8	1787.7	1089.0	534.6	409.4	379.6	362.2	344.8	337.3
2174.7	25°	2116.7	2053.7	1756.2	870.2	430.1	375.4	347.3	328.2	313.3	304.2
2269.2	27.5°	2197.9	2110.9	1684.1	663.0	382.9	345.6	317.4	299.2	285.1	278.5
2372.0	30°	2275.0	2167.3	1583.0	503.1	352.2	316.6	290.1	274.3	260.2	253.6
2505.4	32.5°	2379.4	2238.5	1475.2	412.7	325.7	289.2	265.2	250.3	237.9	232.9
2678.6	35°	2524.5	2343.8	1382.4	405.3	303.3	266.9	242.8	228.7	216.3	212.2
2902.4	37.5°	2730.0	2513.7	1333.5	455.0	285.1	247.0	224.6	209.7	198.1	194.8
3186.7	40°	2983.6	2744.1	1360.0	504.7	272.7	229.6	208.0	193.1	183.2	179.0
3513.2	42.5°	3284.4	3028.4	1506.7	542.8	264.4	214.7	192.3	175.7	169.1	167.4
3883.7	45°	3630.0	3340.8	1731.3	583.5	251.1	200.6	176.5	164.1	159.1	158.3
4286.4	47.5°	4022.9	3683.9	1991.6	634.0	237.9	187.3	164.1	155.8	151.7	150.0
4706.6	50°	4412.4	4029.5	2259.2	662.2	227.1	174.9	154.2	147.5	144.2	143.4
5150.9	52.5°	4820.2	4385.1	2475.6	635.7	218.0	164.9	145.9	140.9	137.6	136.7
5560.3	55°	5208.9	4672.6	2512.9	539.5	199.7	155.0	136.7	134.3	130.1	130.1
5975.5	57.5°	5543.7	4816.9	2249.3	396.2	181.5	140.1	127.6	125.1	121.8	121.0
6350.1	60°	5851.2	4775.4	1736.3	266.9	161.6	125.1	116.0	114.4	111.1	106.9
6675.8	62.5°	6024.4	4593.1	1187.6	174.0	141.7	109.4	102.8	101.9	94.5	86.2
6917.0	65°	6089.9	4218.5	740.9	126.8	118.5	93.7	88.7	87.0	76.2	67.1
7053.7	67.5°	6032.7	3601.9	373.8	100.3	93.7	77.9	72.9	72.9	65.5	57.2
7045.4	70°	5803.9	2700.2	157.5	80.4	72.1	59.7	59.7	63.0	55.5	46.4
6679.9	72.5°	5307.5	1816.7	83.7	61.3	53.9	42.3	48.9	51.4	43.9	34.8
5467.4	75°	4219.3	1108.1	58.0	45.6	34.0	29.8	37.3	39.0	29.8	23.2
3748.6	77.5°	2885.8	636.5	39.0	29.0	21.5	17.4	25.7	24.0	15.7	10.8
1445.4	80°	1267.2	265.2	22.4	13.3	8.3	6.6	9.1	6.6	5.0	3.3
198.1	82.5°	148.4	62.2	8.3	5.0	3.3	1.7	0.8	0.0	0.0	0.0
60.5	85°	30.7	7.5	4.1	1.7	0.8	0.0	0.0	0.0	0.0	0.0
10.8	87.5°	5.8	1.7	0.8	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>
1486.8
1444.6
1380.7
1189.3
865.2
559.4
448.4
408.6
370.5
333.2
300.8
278.5
254.4
232.9
212.2
193.9
178.2
167.4
157.5
150.0
143.4
136.7
129.3
120.2
106.1
84.5
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