

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: P949360

Luminaire Tested: **GALN-SB4A-850-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949360  
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-SB4A-850-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

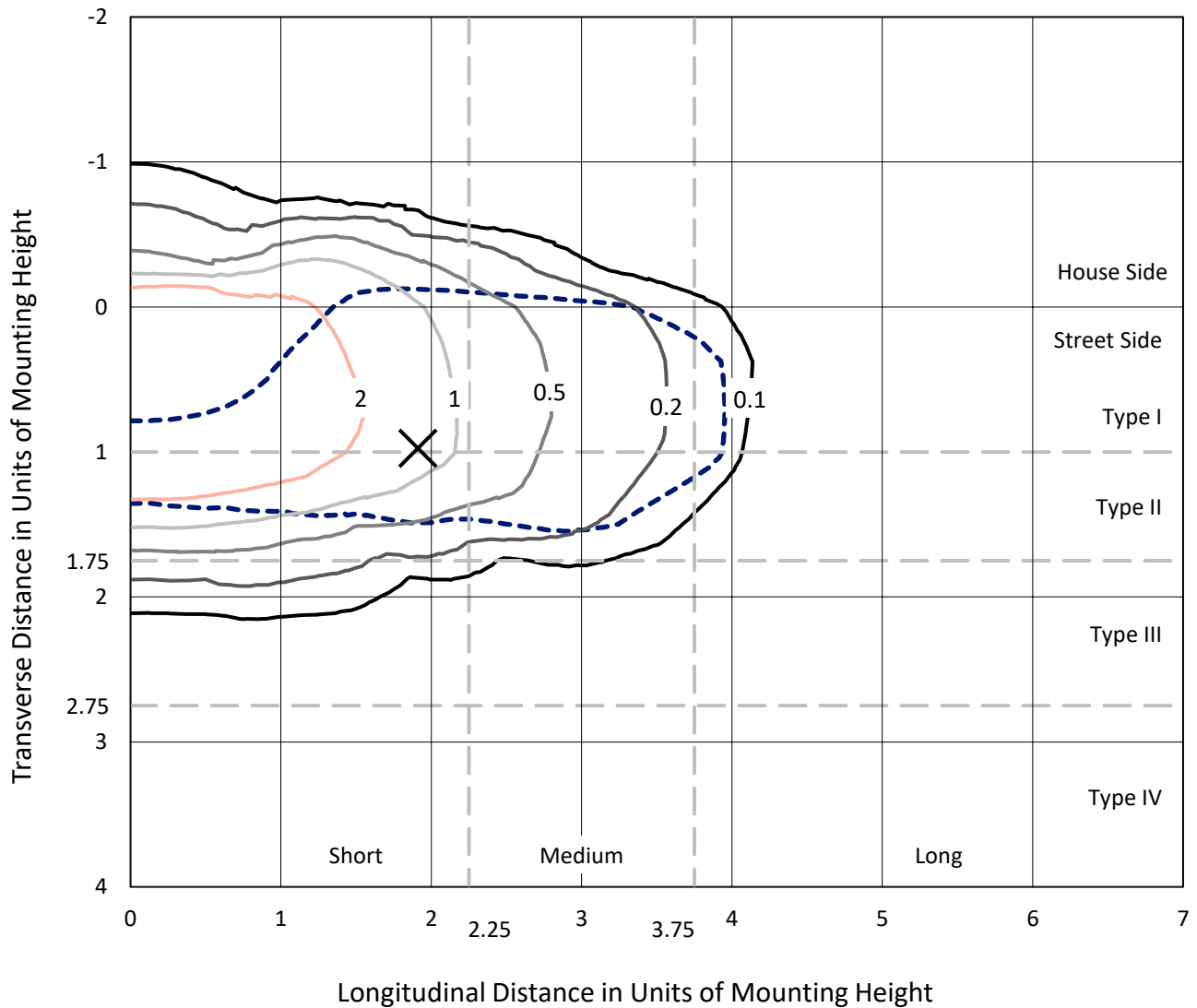
Lumens per Lamp: N/A  
Luminaire Lumens: 13142 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

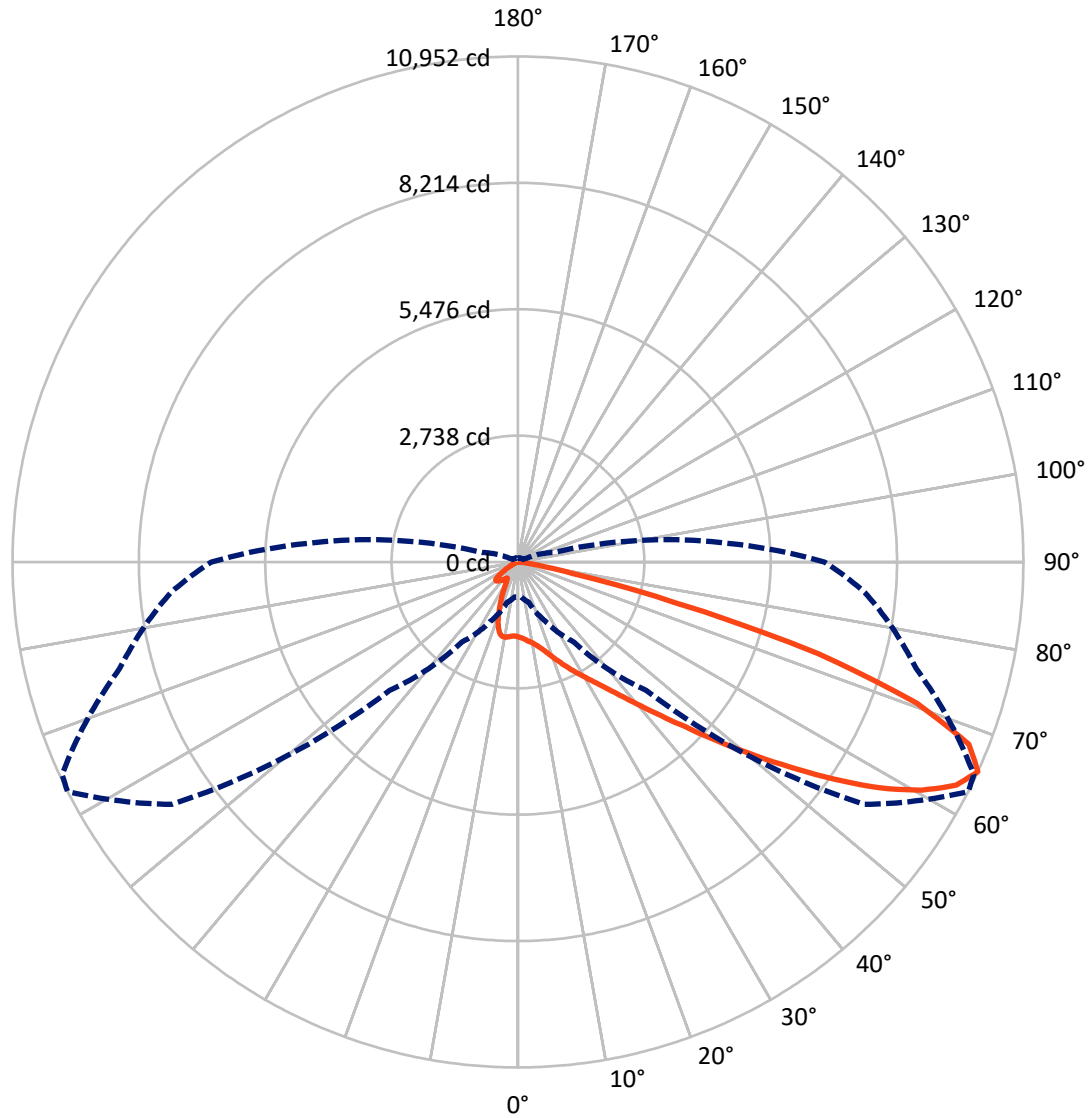
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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
<b>House Side</b>	Lumens	1931.8	0.0	1931.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	11210.2	0.0	11210.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	13142.0	0.0	13142.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.8	1.2
10°-20°	424.0	3.2
20°-30°	738.3	5.6
30°-40°	1330.8	10.1
40°-50°	2639.3	20.1
50°-60°	3595.2	27.4
60°-70°	2869.7	21.8
70°-80°	1298.6	9.9
80°-90°	93.3	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°	13142.0	100.0
0°-180°	13142.0	100.0

**Coefficient of Utilization**



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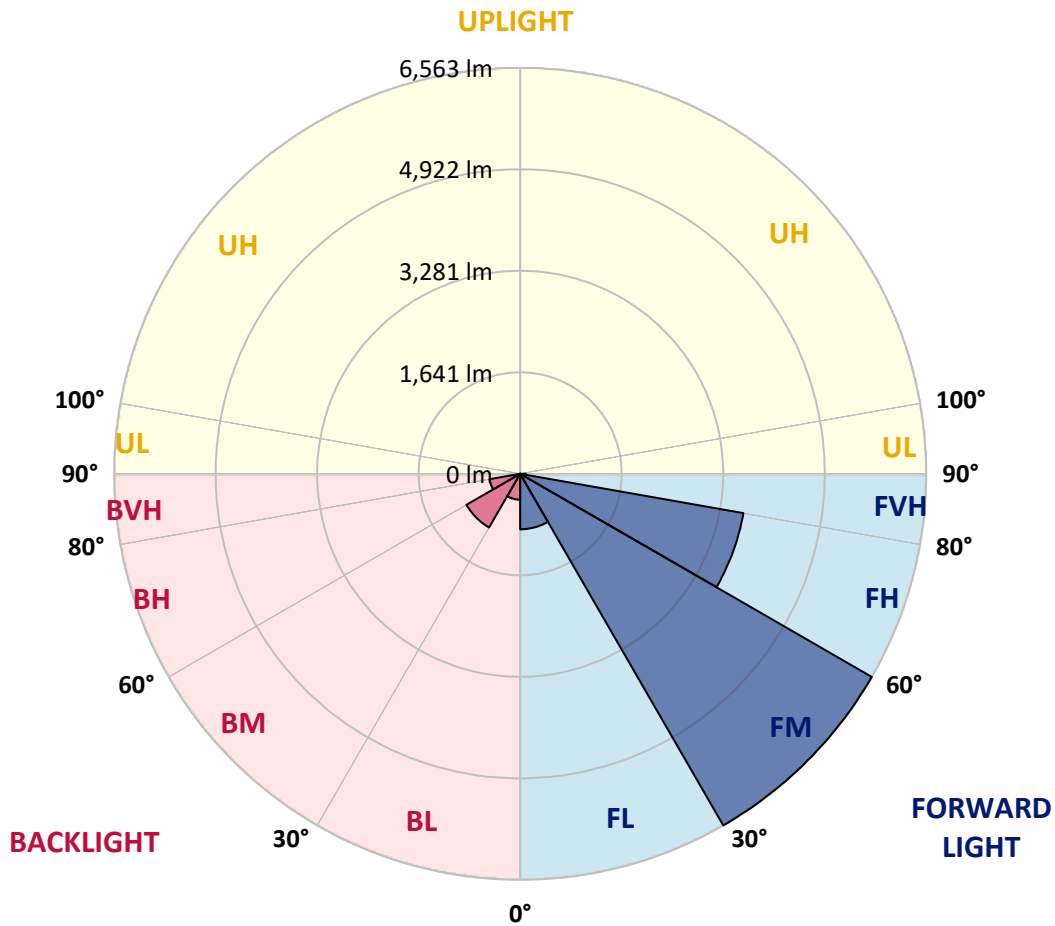
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.1	6.8			
FM (30°-60°)	6562.8	49.9			
FH (60°-80°)	3663.9	27.9			G2/5000
FVH (80°-90°)	86.4	0.7			G1/100
BL (0°-30°)	418.1	3.2	B1/500		
BM (30°-60°)	1002.5	7.6	B2/2500		
BH (60°-80°)	504.3	3.8	B2/1000		G2/1000
BVH (80°-90°)	6.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1622.0	1622.0	1622.0	1622.0	1622.0	1622.0	1622.0	1622.0	1622.0	1622.0
2.5°	1659.9	1655.4	1661.8	1659.0	1657.2	1653.6	1651.8	1650.0	1646.4	1643.7
5°	1664.5	1661.8	1668.1	1673.5	1678.9	1684.4	1687.1	1690.7	1687.1	1679.8
7.5°	1626.5	1624.7	1638.2	1654.5	1678.9	1699.7	1722.3	1735.0	1735.9	1733.2
10°	1623.8	1619.3	1632.8	1652.7	1684.4	1721.4	1761.2	1788.3	1791.9	1803.7
12.5°	1666.3	1661.8	1680.7	1702.4	1735.0	1773.9	1822.7	1860.7	1866.1	1882.4
15°	1737.7	1731.4	1753.1	1781.1	1822.7	1867.0	1918.5	1952.9	1957.4	1977.3
17.5°	1820.9	1814.5	1839.9	1869.7	1914.9	1975.5	2035.1	2073.1	2078.5	2091.2
20°	1927.6	1919.4	1939.3	1966.4	2014.4	2086.7	2158.1	2212.4	2211.5	2211.5
22.5°	2051.4	2038.8	2055.9	2077.6	2122.8	2210.5	2305.5	2369.7	2369.7	2344.4
25°	2184.3	2171.7	2190.7	2210.5	2250.3	2349.8	2461.0	2540.5	2544.2	2500.8
27.5°	2350.7	2334.4	2348.9	2372.4	2395.9	2497.1	2629.1	2721.4	2723.2	2656.3
30°	2670.7	2624.6	2579.4	2554.1	2565.0	2665.3	2806.4	2908.5	2917.6	2825.3
32.5°	3256.6	3247.6	3088.4	2880.5	2772.0	2846.1	3004.4	3127.3	3132.7	3014.3
35°	4167.0	4156.2	3900.3	3504.3	3150.8	3088.4	3244.8	3390.4	3386.8	3253.0
37.5°	5253.8	5243.8	4906.6	4376.8	3804.5	3454.6	3555.0	3707.8	3730.4	3555.0
40°	6182.3	6145.2	5931.9	5421.0	4672.4	4062.2	3996.2	4097.4	4120.9	3913.0
42.5°	6885.7	6854.0	6745.6	6426.4	5723.0	4960.8	4516.0	4554.9	4581.1	4331.6
45°	7250.0	7242.8	7286.2	7256.4	6793.5	6063.9	5259.2	5097.4	5107.3	4795.4
47.5°	7301.6	7298.0	7496.0	7776.2	7713.9	7307.9	6213.0	5773.6	5738.4	5318.9
50°	6997.8	6990.6	7370.3	7895.6	8328.6	8353.1	7296.2	6535.8	6458.0	5860.4
52.5°	6027.7	6025.9	6649.7	7524.0	8544.7	9268.0	8366.6	7373.0	7242.8	6433.6
55°	4638.1	4671.5	5386.7	6420.1	8150.5	9708.3	9327.7	8302.4	8102.6	7010.5
57.5°	3285.5	3334.4	4041.4	4961.7	6928.2	9447.9	9977.7	9233.7	9018.5	7585.5
60°	1764.8	1808.2	2516.1	3614.6	5154.3	8476.9	10320.4	10041.9	9838.5	8131.6
62.5°	1051.5	1065.9	1358.9	2333.5	3486.2	6476.1	10174.8	10657.6	10490.4	8589.9
65°	754.9	757.6	905.0	1424.9	2116.5	3934.7	9154.1	10952.4	10900.8	8935.3
67.5°	635.6	633.8	695.3	946.6	1442.1	1971.0	7015.9	10535.6	10754.4	9154.1
70°	545.2	547.9	620.2	693.5	1084.0	1115.7	3488.1	9173.1	9639.6	9212.0
72.5°	405.9	415.0	481.9	632.0	818.2	767.6	1204.3	6801.6	7645.1	8679.4
75°	286.6	291.1	339.0	531.6	610.3	558.7	614.8	3516.1	4597.4	6654.2
77.5°	220.6	228.7	256.8	371.6	601.2	392.4	376.1	1216.9	1869.7	4019.7
80°	119.3	133.8	185.3	268.5	422.2	277.6	186.2	484.6	633.8	1879.6
82.5°	61.5	68.7	129.3	193.5	240.5	242.3	92.2	201.6	261.3	580.4
85°	24.4	29.8	86.8	106.7	123.9	119.3	41.6	81.4	94.0	160.9
87.5°	5.4	9.0	31.6	24.4	23.5	25.3	9.9	19.0	18.1	19.0
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°
1622.0	0°	1622.0	1622.0	1622.0	1622.0	1622.0	1622.0	1622.0	1622.0	1622.0	1622.0
1632.8	2.5°	1631.9	1628.3	1618.4	1607.5	1594.8	1587.6	1583.1	1582.2	1575.9	1571.3
1669.0	5°	1659.0	1655.4	1636.4	1613.8	1589.4	1570.4	1552.4	1536.1	1512.6	1508.1
1721.4	7.5°	1713.3	1703.3	1672.6	1641.9	1595.8	1540.6	1473.7	1396.8	1328.1	1307.3
1791.0	10°	1780.2	1766.6	1727.8	1673.5	1571.3	1421.3	1259.4	1109.3	990.0	956.5
1873.3	12.5°	1856.1	1844.4	1792.8	1692.5	1469.2	1197.0	949.3	763.1	647.3	618.4
1961.0	15°	1946.5	1929.4	1857.9	1663.6	1286.5	909.5	651.9	541.6	500.0	494.5
2061.4	17.5°	2042.4	2014.4	1915.8	1559.6	1040.6	646.4	503.6	471.9	453.9	448.4
2162.6	20°	2130.1	2093.9	1950.2	1402.3	777.5	503.6	451.2	430.4	414.1	407.8
2263.9	22.5°	2217.8	2166.2	1950.2	1188.0	583.2	446.6	414.1	395.1	376.1	368.0
2372.4	25°	2309.1	2240.4	1915.8	949.3	469.2	409.6	378.8	358.0	341.8	331.8
2475.4	27.5°	2397.7	2302.8	1837.1	723.3	417.7	377.0	346.3	326.4	311.0	303.8
2587.6	30°	2481.8	2364.2	1726.8	548.8	384.2	345.4	316.4	299.3	283.9	276.7
2733.1	32.5°	2595.7	2442.0	1609.3	450.2	355.3	315.5	289.3	273.0	259.5	254.1
2922.1	35°	2753.9	2556.8	1508.1	442.1	330.9	291.1	264.9	249.5	236.0	231.5
3166.2	37.5°	2978.1	2742.2	1454.7	496.4	311.0	269.4	245.0	228.7	216.1	212.5
3476.3	40°	3254.8	2993.5	1483.6	550.6	297.5	250.4	226.9	210.7	199.8	195.3
3832.5	42.5°	3583.0	3303.6	1643.7	592.2	288.4	234.2	209.8	191.7	184.4	182.6
4236.7	45°	3960.0	3644.5	1888.7	636.5	273.9	218.8	192.6	179.0	173.6	172.7
4676.1	47.5°	4388.5	4018.8	2172.6	691.6	259.5	204.3	179.0	170.0	165.5	163.6
5134.4	50°	4813.5	4395.8	2464.6	722.4	247.7	190.8	168.2	160.9	157.3	156.4
5619.0	52.5°	5258.3	4783.6	2700.6	693.5	237.8	179.9	159.1	153.7	150.1	149.2
6065.7	55°	5682.3	5097.4	2741.3	588.6	217.9	169.1	149.2	146.5	141.9	141.9
6518.6	57.5°	6047.6	5254.7	2453.8	432.2	198.0	152.8	139.2	136.5	132.9	132.0
6927.3	60°	6383.0	5209.5	1894.1	291.1	176.3	136.5	126.6	124.8	121.2	116.6
7282.6	62.5°	6572.0	5010.6	1295.6	189.9	154.6	119.3	112.1	111.2	103.1	94.0
7545.7	65°	6643.4	4601.9	808.3	138.3	129.3	102.2	96.7	94.9	83.2	73.2
7694.9	67.5°	6581.0	3929.3	407.8	109.4	102.2	85.0	79.6	79.6	71.4	62.4
7685.8	70°	6331.5	2945.6	171.8	87.7	78.7	65.1	65.1	68.7	60.6	50.6
7287.1	72.5°	5789.9	1981.8	91.3	66.9	58.8	46.1	53.3	56.1	47.9	38.0
5964.4	75°	4602.8	1208.8	63.3	49.7	37.1	32.5	40.7	42.5	32.5	25.3
4089.3	77.5°	3148.1	694.4	42.5	31.6	23.5	19.0	28.0	26.2	17.2	11.8
1576.8	80°	1382.4	289.3	24.4	14.5	9.0	7.2	9.9	7.2	5.4	3.6
216.1	82.5°	161.8	67.8	9.0	5.4	3.6	1.8	0.9	0.0	0.0	0.0
66.0	85°	33.5	8.1	4.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0
11.8	87.5°	6.3	1.8	0.9	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>
1622.0
1575.9
1506.2
1297.4
943.9
610.3
489.1
445.7
404.1
363.5
328.2
303.8
277.6
254.1
231.5
211.6
194.4
182.6
171.8
163.6
156.4
149.2
141.0
131.1
115.7
92.2
72.3
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