

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: P939986

Luminaire Tested: **GALN-SB2D-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939986
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-SB2D-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA 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: 14341 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

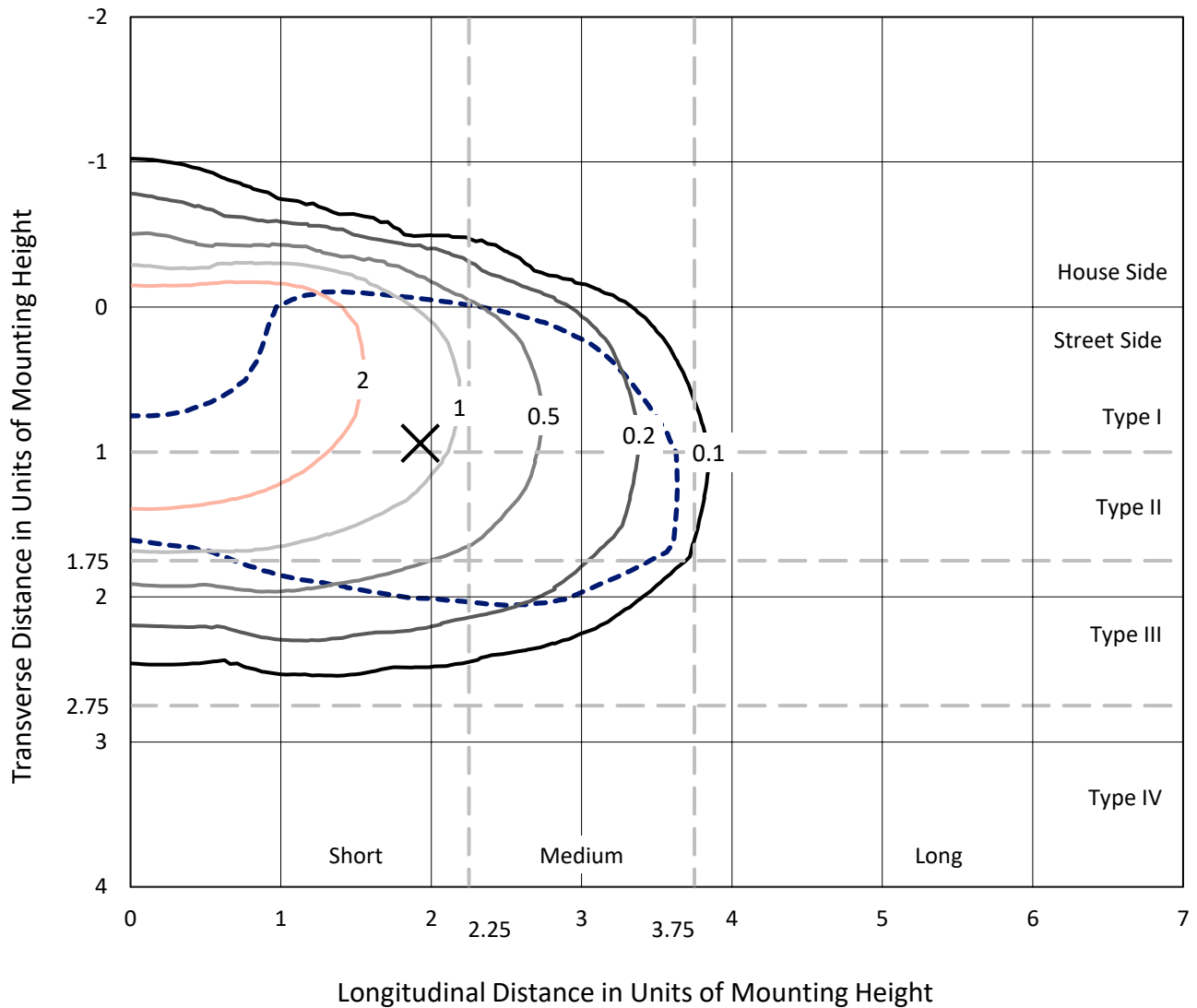
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

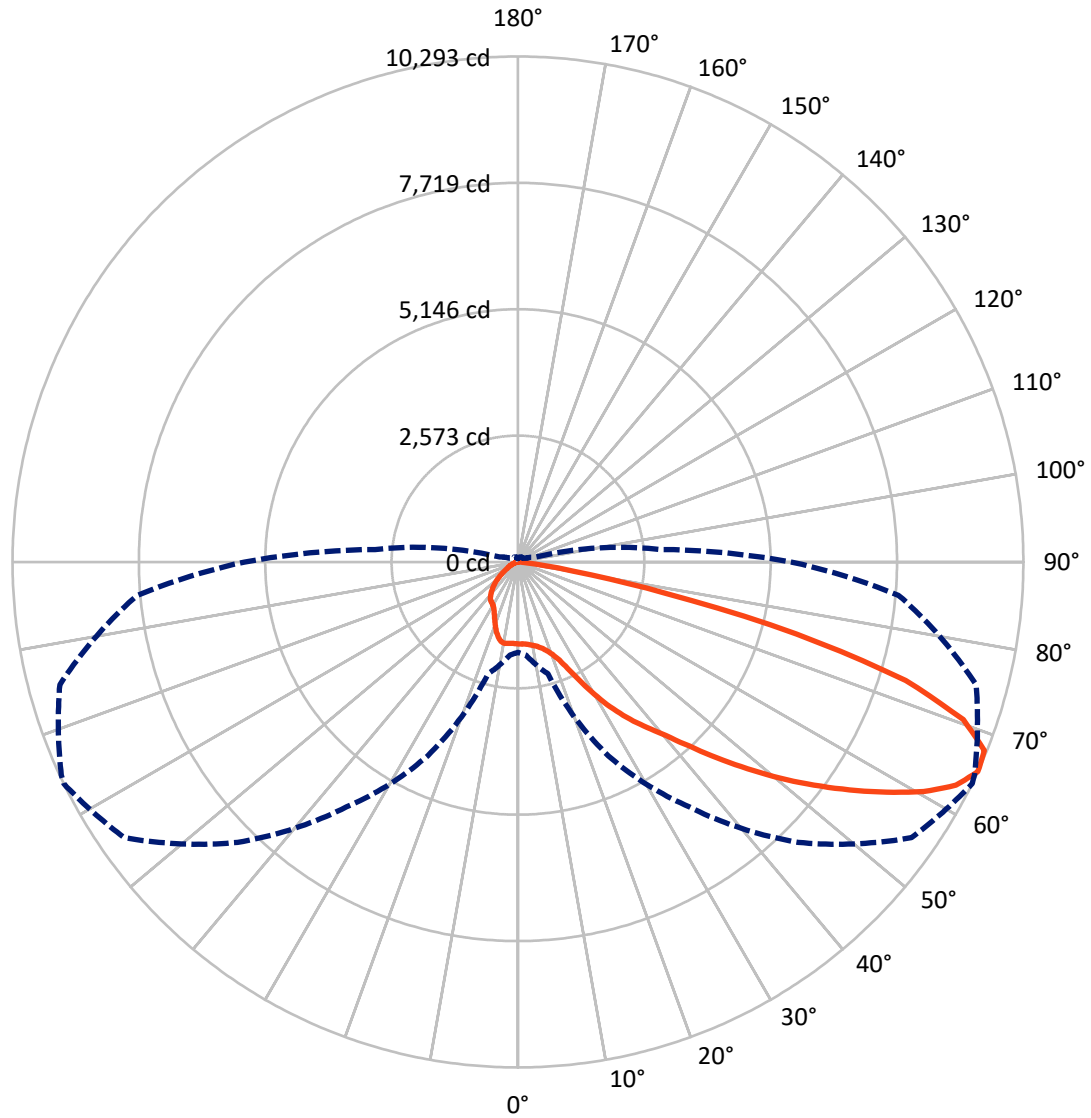
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1917.8	0.0	1917.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12423.2	0.0	12423.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	14341.0	0.0	14341.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	1.1
10°-20°	417.4	2.9
20°-30°	790.9	5.5
30°-40°	1600.5	11.2
40°-50°	2726.4	19.0
50°-60°	3707.7	25.9
60°-70°	3481.7	24.3
70°-80°	1394.9	9.7
80°-90°	67.6	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°	14341.0	100.0
0°-180°	14341.0	100.0

Coefficient of Utilization



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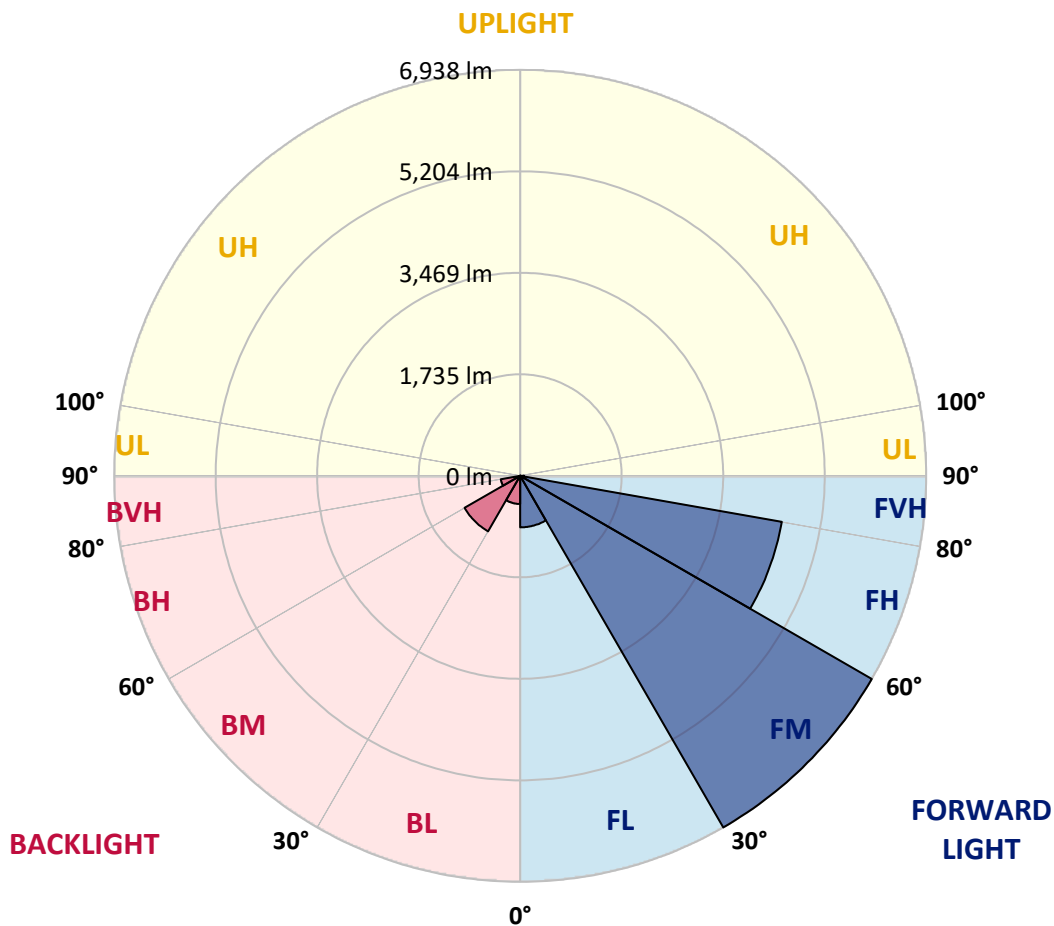
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	880.7	6.1			
FM (30°-60°)	6938.2	48.4			
FH (60°-80°)	4540.0	31.7			G2/5000
FVH (80°-90°)	64.3	0.4			G1/100
BL (0°-30°)	481.5	3.4	B1/500		
BM (30°-60°)	1096.4	7.6	B2/2500		
BH (60°-80°)	336.6	2.3	B1/500		G1/500
BVH (80°-90°)	3.3	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0
2.5°	1662.2	1673.8	1670.9	1668.0	1667.0	1669.0	1669.9	1669.0	1669.0	1669.0
5°	1630.5	1640.1	1640.1	1646.9	1656.5	1668.0	1676.7	1678.6	1680.5	1683.4
7.5°	1569.9	1577.6	1583.4	1605.5	1629.6	1660.3	1686.3	1699.7	1701.7	1712.2
10°	1528.6	1538.2	1547.8	1570.9	1605.5	1651.7	1695.9	1728.6	1733.4	1758.4
12.5°	1526.7	1536.3	1548.8	1573.8	1614.2	1663.2	1717.0	1764.1	1772.8	1809.3
15°	1546.9	1558.4	1569.9	1600.7	1644.0	1703.6	1761.3	1819.9	1828.6	1880.5
17.5°	1588.2	1603.6	1612.2	1643.0	1689.2	1755.5	1831.4	1898.7	1906.4	1967.0
20°	1669.9	1688.2	1691.1	1716.1	1761.3	1832.4	1922.8	2006.4	2016.0	2085.2
22.5°	1839.1	1865.1	1842.0	1854.5	1894.9	1966.0	2064.1	2169.9	2183.3	2262.1
25°	2137.2	2173.7	2114.1	2092.9	2110.2	2184.3	2307.3	2441.0	2456.3	2519.8
27.5°	2722.6	2675.5	2585.2	2496.7	2444.8	2487.1	2625.5	2790.9	2810.1	2871.7
30°	3365.8	3324.5	3202.4	3006.3	2883.2	2876.5	3004.3	3188.9	3211.0	3269.7
32.5°	4009.9	3970.5	3837.9	3596.6	3383.1	3277.4	3365.8	3570.6	3582.1	3619.6
35°	4643.5	4603.1	4470.5	4223.4	3960.9	3720.6	3703.3	3934.0	3937.8	3977.3
37.5°	5280.9	5247.3	5105.9	4863.7	4605.0	4273.4	4112.8	4278.2	4283.0	4321.4
40°	5735.6	5750.1	5653.0	5465.5	5243.4	4881.0	4572.4	4644.5	4615.6	4680.0
42.5°	6126.0	6154.8	6070.2	5976.0	5847.2	5528.0	5141.5	5129.0	5082.9	5117.5
45°	6463.4	6487.4	6411.5	6389.4	6386.5	6162.5	5763.5	5688.5	5624.1	5617.4
47.5°	6587.4	6633.6	6666.3	6740.3	6884.5	6790.3	6406.7	6290.4	6218.3	6165.4
50°	6634.5	6683.6	6795.1	7010.4	7351.7	7392.1	7047.0	6916.2	6827.8	6731.6
52.5°	6571.1	6658.6	6808.5	7171.0	7666.1	7874.7	7661.3	7546.9	7445.9	7289.2
55°	6197.1	6284.6	6591.3	7169.1	7822.8	8213.1	8242.0	8191.0	8077.6	7830.5
57.5°	5408.8	5538.6	6024.1	6924.9	7819.9	8504.4	8811.1	8847.6	8720.7	8367.0
60°	4316.6	4492.6	5084.8	6383.6	7578.6	8662.1	9310.1	9492.7	9358.1	8895.7
62.5°	3012.0	3215.8	3776.3	5535.7	7026.8	8548.7	9674.4	10011.9	9910.0	9368.7
65°	1837.2	1902.6	2354.4	4356.0	6088.5	8073.7	9786.9	10292.6	10259.0	9658.1
67.5°	1223.8	1278.6	1408.4	2987.0	4726.2	7124.8	9517.7	10243.6	10253.2	9611.0
70°	737.4	784.5	869.1	1737.2	3063.0	5639.5	8684.2	9618.7	9674.4	8981.3
72.5°	303.8	335.5	412.4	787.4	1586.3	3579.2	6915.3	8258.3	8388.1	7551.7
75°	172.1	188.4	242.3	395.1	688.4	1668.0	4188.8	5862.5	6053.9	5205.0
77.5°	114.4	122.1	156.7	255.7	387.4	569.1	1790.1	3054.3	3419.7	2842.8
80°	76.9	83.6	107.7	171.1	251.9	244.2	570.1	1131.6	1392.1	976.8
82.5°	51.9	52.9	76.9	112.5	159.6	118.3	168.2	351.9	442.2	282.6
85°	29.8	28.8	56.7	65.4	71.1	49.0	51.0	105.8	138.4	119.2
87.5°	3.8	5.8	22.1	17.3	9.6	10.6	10.6	18.3	26.9	28.8
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°
1668.0	0°	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0
1669.9	2.5°	1669.9	1669.0	1666.1	1663.2	1656.5	1652.6	1654.5	1652.6	1651.7	1652.6
1682.4	5°	1682.4	1679.5	1671.9	1662.2	1648.8	1632.4	1621.9	1606.5	1592.1	1583.4
1716.1	7.5°	1716.1	1713.2	1702.6	1675.7	1632.4	1564.2	1501.7	1446.9	1405.5	1381.5
1769.9	10°	1769.9	1765.1	1748.8	1689.2	1575.7	1426.7	1302.7	1199.8	1132.5	1100.8
1833.4	12.5°	1833.4	1827.6	1798.8	1676.7	1468.0	1235.4	1064.3	949.9	887.4	859.5
1906.4	15°	1908.4	1900.7	1843.9	1617.1	1311.3	1023.9	867.2	781.6	741.2	716.2
1999.7	17.5°	2001.6	1988.1	1877.6	1527.6	1141.2	862.4	746.0	681.6	646.1	622.0
2121.8	20°	2122.7	2100.6	1904.5	1420.9	984.5	760.5	664.3	610.5	583.6	562.4
2294.8	22.5°	2291.9	2260.2	1937.2	1305.6	873.9	690.3	603.8	564.3	542.2	518.2
2536.1	25°	2501.5	2464.0	1977.6	1198.9	798.0	629.7	559.5	526.8	500.9	473.0
2852.4	27.5°	2794.8	2727.5	2025.6	1111.4	732.6	577.8	519.1	482.6	452.8	429.7
3211.0	30°	3121.6	3011.1	2067.9	1058.5	673.0	529.7	466.3	429.7	401.9	385.5
3533.1	32.5°	3431.2	3281.2	2095.8	1035.4	619.1	474.9	408.6	369.2	348.0	343.2
3848.4	35°	3723.5	3525.4	2092.9	1013.3	571.1	420.1	351.9	311.5	295.1	298.0
4187.8	37.5°	4059.9	3785.9	2072.8	978.7	531.6	370.1	302.8	267.3	252.8	253.8
4600.2	40°	4451.2	4086.9	2060.3	913.3	488.4	324.0	262.5	233.6	223.0	219.2
5034.8	42.5°	4868.5	4378.2	2062.2	839.3	434.5	282.6	234.6	210.5	200.9	198.0
5518.4	45°	5287.6	4656.0	2065.1	762.4	377.8	250.9	214.4	194.2	188.4	184.6
6008.7	47.5°	5681.8	4892.5	2011.2	679.7	322.1	226.9	198.0	184.6	179.8	175.0
6500.9	50°	6049.0	5050.2	1881.4	583.6	277.8	207.7	185.5	175.9	171.1	166.3
6947.0	52.5°	6334.6	5075.2	1667.0	484.5	247.1	193.2	177.9	169.2	163.4	158.6
7307.5	55°	6461.5	4918.5	1362.3	392.2	223.0	180.7	170.2	161.5	154.8	150.0
7591.1	57.5°	6428.8	4588.7	1062.3	315.3	200.0	168.2	160.6	154.8	147.1	139.4
7820.9	60°	6268.2	4147.4	800.8	262.5	178.8	154.8	150.0	145.2	134.6	123.1
7909.3	62.5°	5990.4	3592.7	571.1	217.3	155.7	139.4	137.5	133.6	118.3	97.1
7778.6	65°	5565.5	2918.8	384.6	180.7	133.6	122.1	123.1	116.3	96.1	72.1
7299.8	67.5°	4944.4	2134.3	246.1	148.1	111.5	101.9	102.9	99.0	81.7	61.5
6392.3	70°	4153.2	1413.2	160.6	112.5	89.4	78.8	84.6	85.6	69.2	50.0
4906.0	72.5°	3044.7	834.5	112.5	83.6	65.4	54.8	69.2	71.1	55.8	37.5
2951.5	75°	1735.3	396.1	84.6	60.6	40.4	38.5	53.8	53.8	38.5	25.0
1277.7	77.5°	728.7	165.4	59.6	39.4	23.1	22.1	36.5	33.6	19.2	11.5
311.5	80°	210.5	74.0	31.7	19.2	9.6	8.7	14.4	10.6	4.8	1.9
118.3	82.5°	82.7	32.7	12.5	7.7	3.8	3.8	1.9	0.0	0.0	0.0
67.3	85°	49.0	13.5	5.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0
14.4	87.5°	12.5	2.9	1.9	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>
1668.0
1656.5
1585.3
1382.5
1097.9
856.6
717.2
620.1
558.6
514.3
470.1
424.9
382.6
346.1
298.0
257.7
218.2
197.1
184.6
175.0
166.3
157.7
149.0
138.4
121.1
95.2
70.2
58.6
48.1
35.6
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