

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: P949192

Luminaire Tested: **GALN-SB4A-735-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949192  
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-735-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

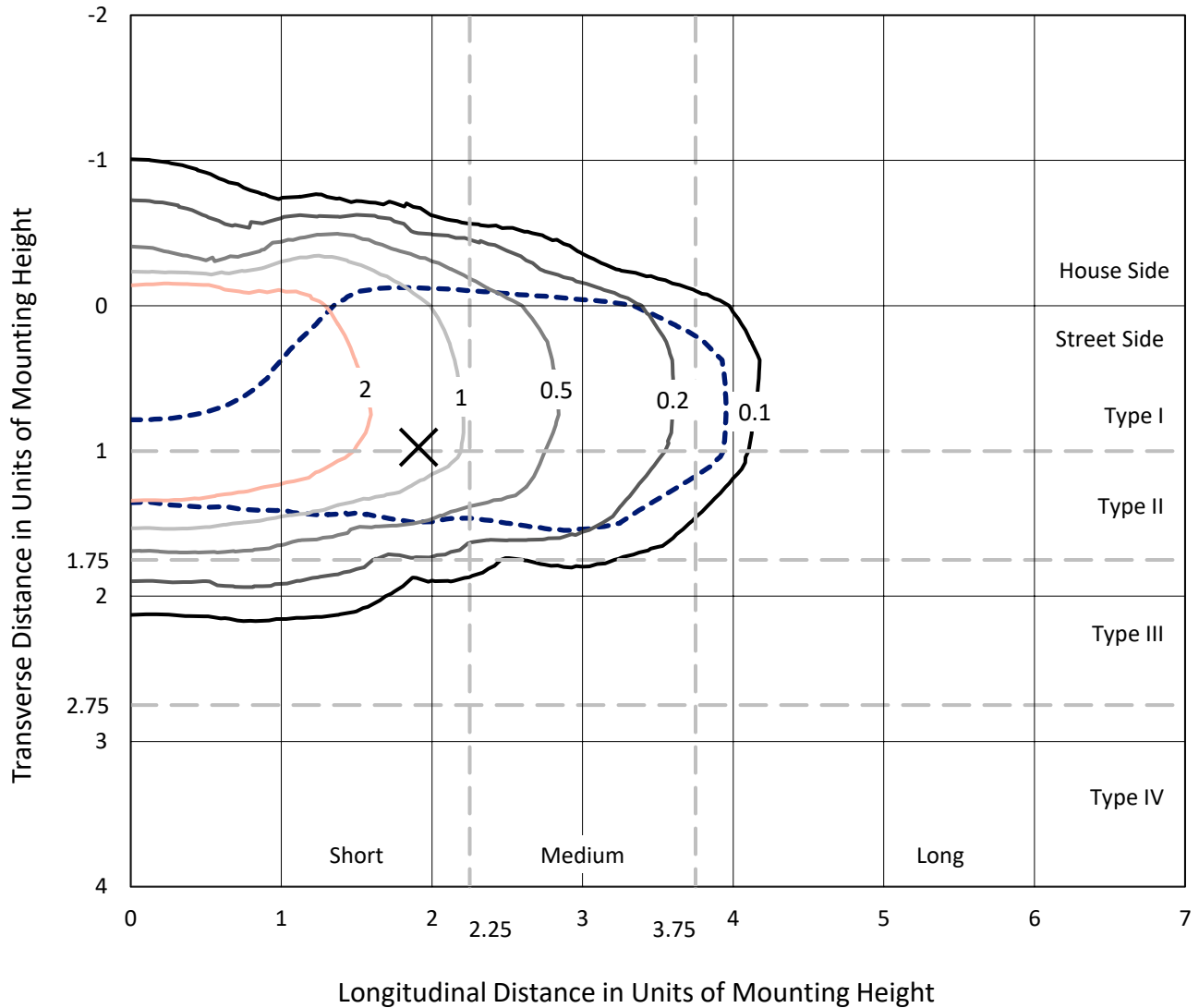
Lumens per Lamp: N/A  
Luminaire Lumens: 13740 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

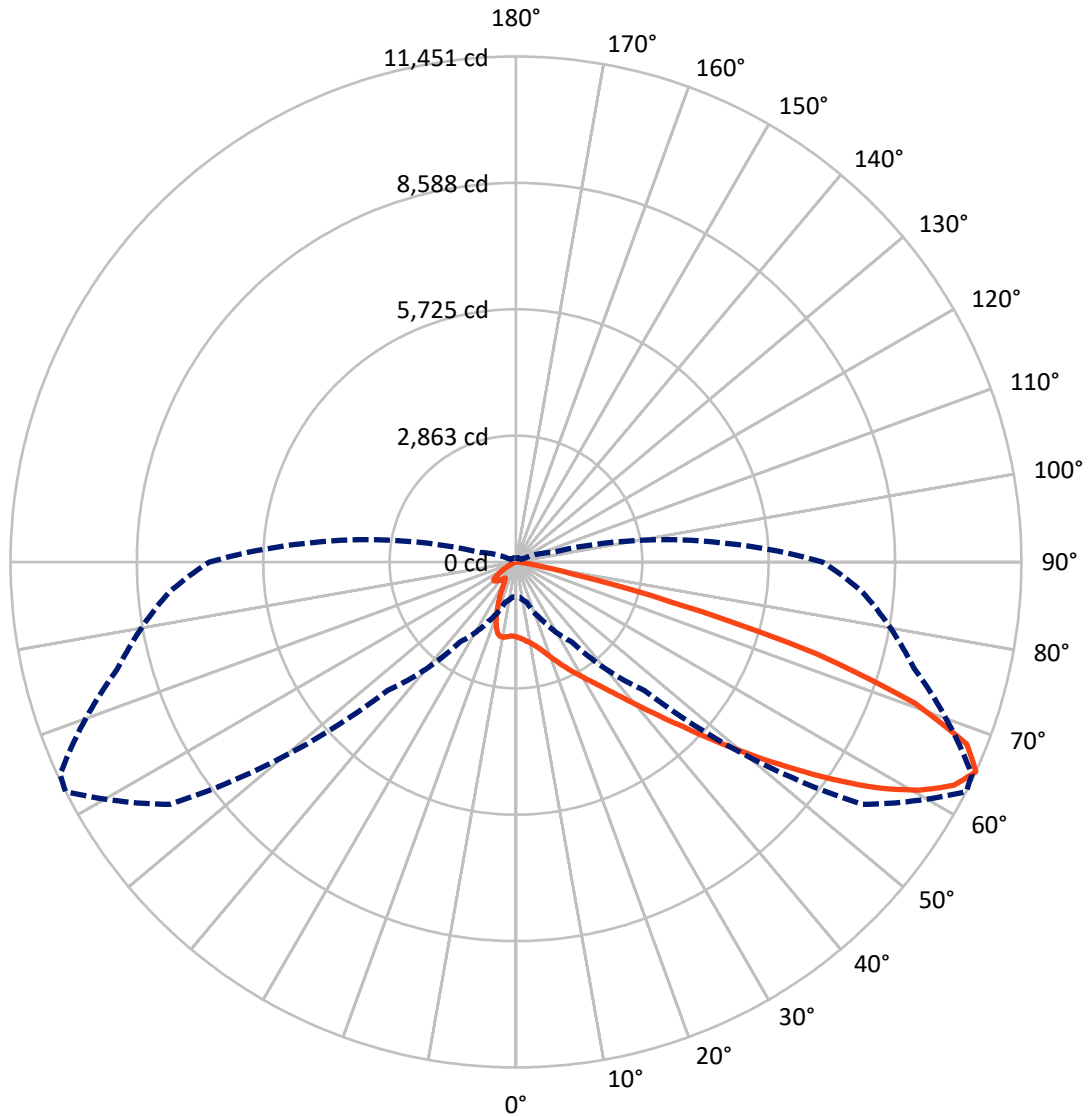
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2019.7	0.0	2019.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	11720.3	0.0	11720.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	13740.0	0.0	13740.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.8	1.2
10°-20°	443.3	3.2
20°-30°	771.9	5.6
30°-40°	1391.3	10.1
40°-50°	2759.4	20.1
50°-60°	3758.8	27.4
60°-70°	3000.2	21.8
70°-80°	1357.7	9.9
80°-90°	97.6	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°	13740.0	100.0
0°-180°	13740.0	100.0

**Coefficient of Utilization**



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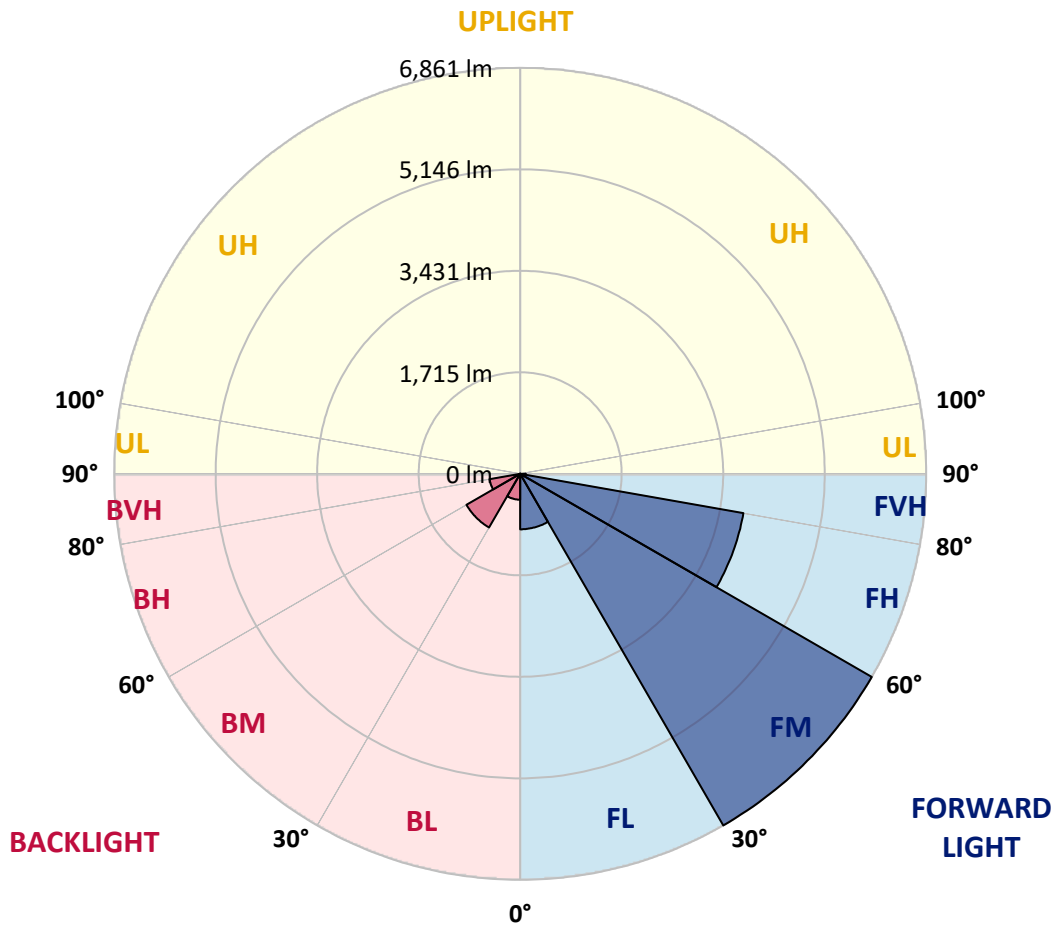
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	937.9	6.8			
FM (30°-60°)	6861.4	49.9			
FH (60°-80°)	3830.6	27.9			G2/5000
FVH (80°-90°)	90.3	0.7			G1/100
BL (0°-30°)	437.1	3.2	B1/500		
BM (30°-60°)	1048.1	7.6	B2/2500		
BH (60°-80°)	527.3	3.8	B2/1000		G2/1000
BVH (80°-90°)	7.2	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°	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8
2.5°	1735.5	1730.7	1737.4	1734.5	1732.6	1728.9	1727.0	1725.1	1721.3	1718.5
5°	1740.2	1737.4	1744.0	1749.7	1755.3	1761.0	1763.8	1767.6	1763.8	1756.3
7.5°	1700.5	1698.6	1712.8	1729.8	1755.3	1777.1	1800.7	1813.9	1814.9	1812.0
10°	1697.7	1692.9	1707.1	1727.9	1761.0	1799.8	1841.3	1869.7	1873.5	1885.8
12.5°	1742.1	1737.4	1757.2	1779.9	1813.9	1854.6	1905.6	1945.3	1951.0	1968.0
15°	1816.8	1810.2	1832.8	1862.1	1905.6	1951.9	2005.8	2041.7	2046.5	2067.3
17.5°	1903.7	1897.1	1923.6	1954.8	2002.0	2065.4	2127.8	2167.5	2173.1	2186.4
20°	2015.3	2006.8	2027.6	2055.9	2106.0	2181.6	2256.3	2313.0	2312.1	2312.1
22.5°	2144.8	2131.5	2149.5	2172.2	2219.4	2311.1	2410.4	2477.5	2477.5	2451.0
25°	2283.7	2270.5	2290.3	2311.1	2352.7	2456.7	2573.0	2656.1	2659.9	2614.6
27.5°	2457.6	2440.6	2455.8	2480.3	2504.9	2610.8	2748.8	2845.2	2847.1	2777.1
30°	2792.3	2744.1	2696.8	2670.3	2681.7	2786.6	2934.1	3040.9	3050.3	2953.9
32.5°	3404.8	3395.3	3229.0	3011.6	2898.1	2975.6	3141.1	3269.6	3275.3	3151.5
35°	4356.6	4345.3	4077.8	3663.8	3294.2	3229.0	3392.5	3544.7	3540.9	3401.0
37.5°	5492.8	5482.4	5129.9	4575.9	3977.6	3611.8	3716.7	3876.5	3900.1	3716.7
40°	6463.6	6424.9	6201.8	5667.7	4885.0	4247.0	4178.0	4283.9	4308.4	4091.0
42.5°	7199.0	7165.9	7052.5	6718.8	5983.4	5186.6	4721.5	4762.2	4789.6	4528.7
45°	7579.9	7572.4	7617.8	7586.6	7102.6	6339.8	5498.5	5329.3	5339.7	5013.6
47.5°	7633.8	7630.0	7837.1	8130.1	8064.9	7640.4	6495.7	6036.4	5999.5	5560.9
50°	7316.2	7308.7	7705.7	8254.9	8707.6	8733.1	7628.2	6833.2	6751.9	6127.1
52.5°	6302.0	6300.1	6952.3	7866.4	8933.5	9689.7	8747.3	7708.5	7572.4	6726.4
55°	4849.1	4884.1	5631.8	6712.2	8521.4	10150.1	9752.1	8680.2	8471.3	7329.5
57.5°	3435.0	3486.1	4225.3	5187.5	7243.4	9877.8	10431.8	9653.8	9428.9	7930.6
60°	1845.1	1890.5	2630.6	3779.1	5388.9	8862.6	10790.0	10498.9	10286.2	8501.6
62.5°	1099.3	1114.4	1420.7	2439.7	3644.9	6770.8	10637.8	11142.6	10967.7	8980.8
65°	789.3	792.1	946.2	1489.7	2212.8	4113.7	9570.6	11450.7	11396.9	9341.9
67.5°	664.5	662.6	726.9	989.7	1507.7	2060.6	7335.1	11015.0	11243.7	9570.6
70°	570.0	572.8	648.4	725.0	1133.4	1166.4	3646.8	9590.5	10078.2	9631.1
72.5°	424.4	433.9	503.8	660.7	855.4	802.5	1259.1	7111.1	7993.0	9074.4
75°	299.6	304.4	354.5	555.8	638.0	584.2	642.8	3676.1	4806.6	6957.0
77.5°	230.6	239.1	268.5	388.5	628.6	410.2	393.2	1272.3	1954.8	4202.6
80°	124.8	139.9	193.8	280.7	441.4	290.2	194.7	506.7	662.6	1965.2
82.5°	64.3	71.8	135.2	202.3	251.4	253.3	96.4	210.8	273.2	606.8
85°	25.5	31.2	90.7	111.5	129.5	124.8	43.5	85.1	98.3	168.3
87.5°	5.7	9.5	33.1	25.5	24.6	26.5	10.4	19.9	18.9	19.9
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°
1695.8	0°	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8
1707.1	2.5°	1706.2	1702.4	1692.0	1680.7	1667.4	1659.9	1655.1	1654.2	1647.6	1642.8
1744.9	5°	1734.5	1730.7	1710.9	1687.3	1661.7	1641.9	1623.0	1606.0	1581.4	1576.7
1799.8	7.5°	1791.2	1780.8	1748.7	1716.6	1668.4	1610.7	1540.8	1460.4	1388.6	1366.8
1872.5	10°	1861.2	1847.0	1806.4	1749.7	1642.8	1485.9	1316.7	1159.8	1035.0	1000.1
1958.6	12.5°	1940.6	1928.3	1874.4	1769.5	1536.0	1251.5	992.5	797.8	676.8	646.5
2050.2	15°	2035.1	2017.2	1942.5	1739.3	1345.1	950.9	681.5	566.2	522.7	517.1
2155.2	17.5°	2135.3	2106.0	2003.0	1630.6	1088.0	675.9	526.5	493.4	474.5	468.8
2261.0	20°	2227.0	2189.2	2038.9	1466.1	812.9	526.5	471.7	449.9	432.9	426.3
2366.9	22.5°	2318.7	2264.8	2038.9	1242.1	609.7	467.0	432.9	413.1	393.2	384.7
2480.3	25°	2414.2	2342.3	2003.0	992.5	490.6	428.2	396.1	374.3	357.3	346.9
2588.1	27.5°	2506.8	2407.5	1920.7	756.2	436.7	394.2	362.0	341.2	325.2	317.6
2705.3	30°	2594.7	2471.8	1805.4	573.8	401.7	361.1	330.8	312.9	296.8	289.2
2857.5	32.5°	2713.8	2553.1	1682.5	470.7	371.5	329.9	302.5	285.5	271.3	265.6
3055.0	35°	2879.2	2673.2	1576.7	462.2	346.0	304.4	277.0	260.9	246.7	242.0
3310.3	37.5°	3113.6	2866.9	1520.9	518.9	325.2	281.7	256.2	239.1	225.9	222.1
3634.5	40°	3402.9	3129.7	1551.2	575.7	311.0	261.8	237.3	220.2	208.9	204.2
4006.9	42.5°	3746.0	3453.9	1718.5	619.1	301.5	244.8	219.3	200.4	192.8	190.9
4429.4	45°	4140.2	3810.3	1974.6	665.5	286.4	228.8	201.3	187.2	181.5	180.5
4888.8	47.5°	4588.2	4201.6	2271.4	723.1	271.3	213.6	187.2	177.7	173.0	171.1
5368.1	50°	5032.5	4595.8	2576.7	755.3	259.0	199.4	175.8	168.3	164.5	163.5
5874.7	52.5°	5497.6	5001.3	2823.5	725.0	248.6	188.1	166.4	160.7	156.9	156.0
6341.7	55°	5940.9	5329.3	2866.0	615.4	227.8	176.8	156.0	153.1	148.4	148.4
6815.2	57.5°	6322.8	5493.8	2565.4	451.8	207.0	159.7	145.6	142.7	139.0	138.0
7242.5	60°	6673.5	5446.5	1980.3	304.4	184.3	142.7	132.3	130.4	126.7	121.9
7614.0	62.5°	6871.0	5238.6	1354.5	198.5	161.6	124.8	117.2	116.3	107.8	98.3
7889.0	65°	6945.7	4811.3	845.1	144.6	135.2	106.8	101.1	99.3	87.0	76.6
8045.0	67.5°	6880.5	4108.0	426.3	114.4	106.8	88.9	83.2	83.2	74.7	65.2
8035.6	70°	6619.6	3079.6	179.6	91.7	82.2	68.1	68.1	71.8	63.3	52.9
7618.7	72.5°	6053.4	2072.0	95.5	69.9	61.4	48.2	55.8	58.6	50.1	39.7
6235.8	75°	4812.3	1263.8	66.2	52.0	38.8	34.0	42.5	44.4	34.0	26.5
4275.4	77.5°	3291.4	726.0	44.4	33.1	24.6	19.9	29.3	27.4	18.0	12.3
1648.5	80°	1445.3	302.5	25.5	15.1	9.5	7.6	10.4	7.6	5.7	3.8
225.9	82.5°	169.2	70.9	9.5	5.7	3.8	1.9	0.9	0.0	0.0	0.0
69.0	85°	35.0	8.5	4.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0
12.3	87.5°	6.6	1.9	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>
1695.8
1647.6
1574.8
1356.4
986.8
638.0
511.4
466.0
422.5
380.0
343.1
317.6
290.2
265.6
242.0
221.2
203.2
190.9
179.6
171.1
163.5
156.0
147.5
137.1
121.0
96.4
75.6
64.3
52.0
39.7
25.5
13.2
3.8
0.0
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