

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: P941006

Luminaire Tested: **GALN-SB4B-830-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941006  
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-SB4B-830-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

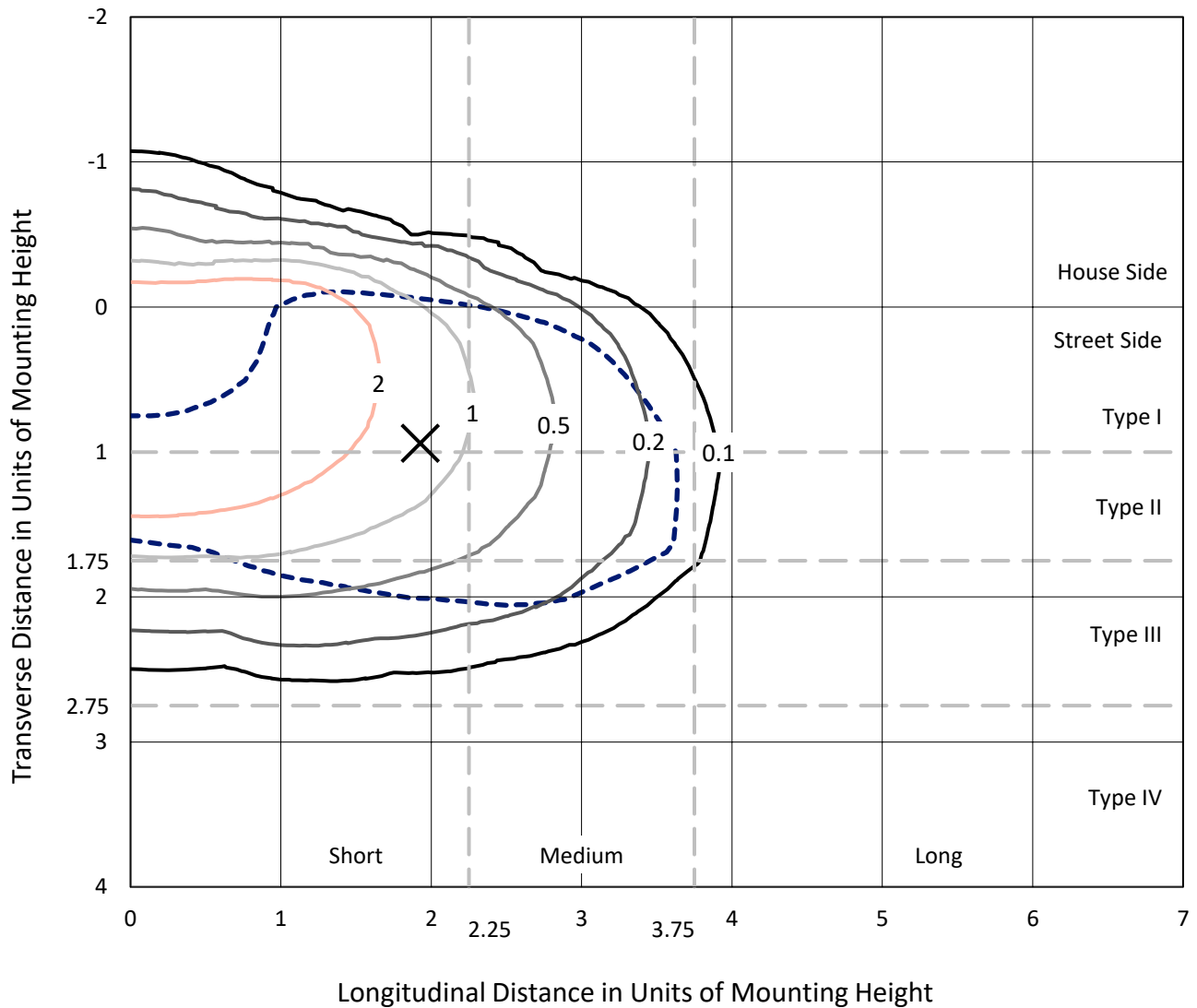
Lumens per Lamp: N/A  
Luminaire Lumens: 15904 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

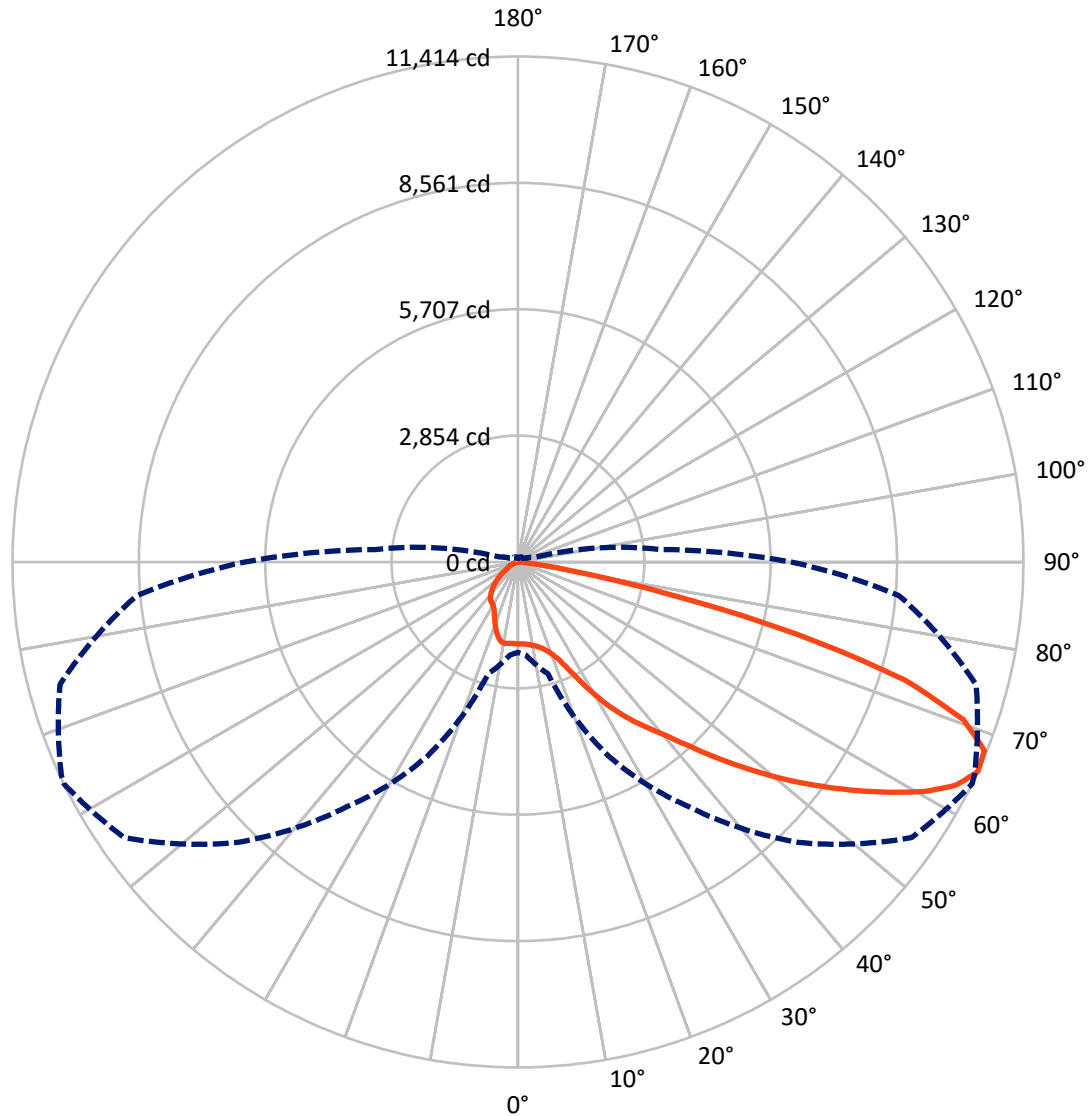
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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
<b>House Side</b>	Lumens	2126.8	0.0	2126.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	13777.1	0.0	13777.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	15904.0	0.0	15904.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.7	1.1
10°-20°	462.9	2.9
20°-30°	877.1	5.5
30°-40°	1774.9	11.2
40°-50°	3023.5	19.0
50°-60°	4111.8	25.9
60°-70°	3861.2	24.3
70°-80°	1547.0	9.7
80°-90°	74.9	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°	15904.0	100.0
0°-180°	15904.0	100.0

**Coefficient of Utilization**



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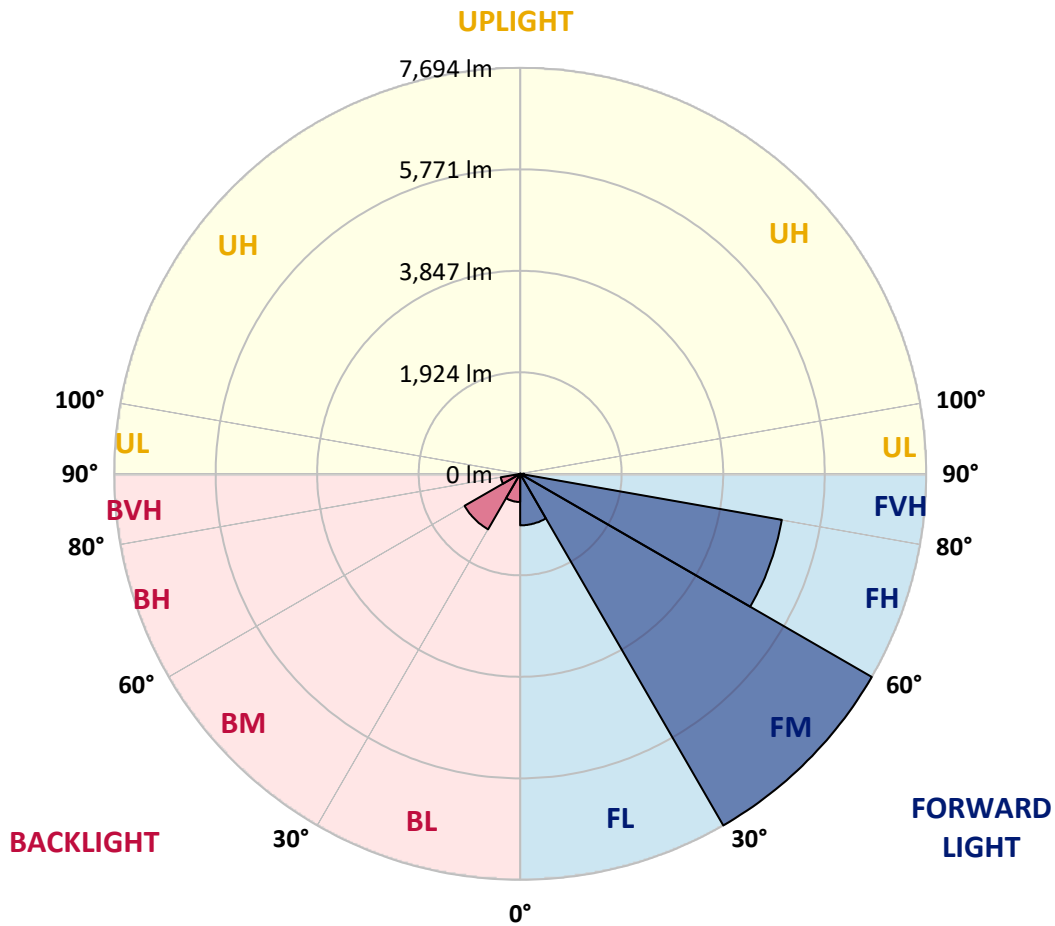
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	976.7	6.1			
FM (30°-60°)	7694.3	48.4			
FH (60°-80°)	5034.8	31.7			G3/7500
FVH (80°-90°)	71.3	0.4			G1/100
BL (0°-30°)	534.0	3.4	B2/1000		
BM (30°-60°)	1215.9	7.6	B2/2500		
BH (60°-80°)	373.3	2.3	B1/500		G1/500
BVH (80°-90°)	3.7	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°	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8
2.5°	1843.4	1856.2	1853.0	1849.8	1848.7	1850.9	1851.9	1850.9	1850.9	1850.9
5°	1808.2	1818.9	1818.9	1826.3	1837.0	1849.8	1859.4	1861.5	1863.7	1866.9
7.5°	1741.1	1749.6	1756.0	1780.5	1807.2	1841.3	1870.1	1885.0	1887.1	1898.8
10°	1695.2	1705.9	1716.5	1742.1	1780.5	1831.7	1880.7	1917.0	1922.3	1950.0
12.5°	1693.1	1703.7	1717.6	1745.3	1790.1	1844.5	1904.2	1956.4	1966.0	2006.5
15°	1715.5	1728.3	1741.1	1775.2	1823.1	1889.2	1953.2	2018.3	2027.9	2085.4
17.5°	1761.3	1778.4	1788.0	1822.1	1873.3	1946.8	2031.0	2105.7	2114.2	2181.4
20°	1851.9	1872.2	1875.4	1903.1	1953.2	2032.1	2132.3	2225.1	2235.8	2312.5
22.5°	2039.6	2068.4	2042.8	2056.6	2101.4	2180.3	2289.1	2406.3	2421.3	2508.7
25°	2370.1	2410.6	2344.5	2321.0	2340.2	2422.3	2558.8	2707.0	2724.1	2794.4
27.5°	3019.4	2967.1	2866.9	2768.8	2711.3	2758.2	2911.7	3095.1	3116.4	3184.6
30°	3732.7	3686.8	3551.4	3333.9	3197.4	3190.0	3331.8	3536.5	3561.0	3626.0
32.5°	4447.0	4403.3	4256.1	3988.5	3751.8	3634.6	3732.7	3959.7	3972.5	4014.1
35°	5149.6	5104.8	4957.7	4683.7	4392.6	4126.1	4106.9	4362.8	4367.0	4410.7
37.5°	5856.5	5819.1	5662.4	5393.7	5106.9	4739.1	4561.1	4744.4	4749.8	4792.4
40°	6360.8	6376.7	6269.1	6061.2	5814.9	5412.9	5070.7	5150.7	5118.7	5190.1
42.5°	6793.6	6825.6	6731.8	6627.3	6484.4	6130.5	5701.9	5688.0	5636.8	5675.2
45°	7167.8	7194.5	7110.3	7085.7	7082.5	6834.1	6391.7	6308.5	6237.1	6229.6
47.5°	7305.4	7356.6	7392.8	7474.9	7634.8	7530.3	7104.9	6975.9	6896.0	6837.3
50°	7357.6	7412.0	7535.7	7774.5	8153.0	8197.8	7815.0	7670.0	7571.9	7465.3
52.5°	7287.3	7384.3	7550.6	7952.5	8501.6	8733.0	8496.3	8369.4	8257.5	8083.7
55°	6872.5	6969.5	7309.6	7950.4	8675.4	9108.3	9140.3	9083.7	8957.9	8683.9
57.5°	5998.3	6142.2	6680.6	7679.6	8672.2	9431.3	9771.4	9811.9	9671.2	9278.9
60°	4787.1	4982.2	5639.0	7079.4	8404.6	9606.2	10324.8	10527.3	10378.1	9865.2
62.5°	3340.3	3566.3	4187.9	6139.0	7792.6	9480.4	10728.8	11103.1	10990.1	10389.8
65°	2037.4	2109.9	2611.0	4830.8	6752.0	8953.7	10853.6	11414.4	11377.1	10710.7
67.5°	1357.2	1418.0	1561.9	3312.6	5241.3	7901.4	10555.1	11360.0	11370.7	10658.5
70°	817.8	870.0	963.8	1926.6	3396.8	6254.1	9630.7	10667.0	10728.8	9960.1
72.5°	336.9	372.1	457.4	873.2	1759.2	3969.3	7668.9	9158.4	9302.3	8374.7
75°	190.8	209.0	268.7	438.2	763.4	1849.8	4645.3	6501.5	6713.7	5772.2
77.5°	126.9	135.4	173.8	283.6	429.7	631.2	1985.2	3387.2	3792.4	3152.7
80°	85.3	92.8	119.4	189.8	279.3	270.8	632.2	1254.9	1543.8	1083.2
82.5°	57.6	58.6	85.3	124.7	177.0	131.1	186.6	390.2	490.4	313.5
85°	33.1	32.0	62.9	72.5	78.9	54.4	56.5	117.3	153.5	132.2
87.5°	4.3	6.4	24.5	19.2	10.7	11.7	11.7	20.3	29.9	32.0
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°
1849.8	0°	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8
1851.9	2.5°	1851.9	1850.9	1847.7	1844.5	1837.0	1832.7	1834.9	1832.7	1831.7	1832.7
1865.8	5°	1865.8	1862.6	1854.1	1843.4	1828.5	1810.4	1798.6	1781.6	1765.6	1756.0
1903.1	7.5°	1903.1	1899.9	1888.2	1858.3	1810.4	1734.7	1665.4	1604.6	1558.7	1532.1
1962.8	10°	1962.8	1957.5	1939.4	1873.3	1747.4	1582.2	1444.7	1330.6	1255.9	1220.8
2033.2	12.5°	2033.2	2026.8	1994.8	1859.4	1628.0	1370.0	1180.2	1053.4	984.1	953.2
2114.2	15°	2116.3	2107.8	2044.9	1793.3	1454.3	1135.5	961.7	866.8	822.0	794.3
2217.6	17.5°	2219.8	2204.8	2082.2	1694.1	1265.5	956.4	827.3	755.9	716.5	689.8
2353.0	20°	2354.1	2329.6	2112.1	1575.8	1091.8	843.3	736.7	677.0	647.2	623.7
2544.9	22.5°	2541.7	2506.6	2148.3	1447.9	969.1	765.5	669.6	625.8	601.3	574.7
2812.5	25°	2774.2	2732.6	2193.1	1329.5	884.9	698.3	620.5	584.3	555.5	524.6
3163.3	27.5°	3099.3	3024.7	2246.4	1232.5	812.4	640.8	575.7	535.2	502.2	476.6
3561.0	30°	3461.8	3339.2	2293.3	1173.9	746.3	587.5	517.1	476.6	445.7	427.5
3918.2	32.5°	3805.2	3638.8	2324.2	1148.3	686.6	526.7	453.1	409.4	386.0	380.6
4267.9	35°	4129.3	3909.6	2321.0	1123.7	633.3	465.9	390.2	345.4	327.3	330.5
4644.2	37.5°	4502.4	4198.6	2298.7	1085.4	589.6	410.5	335.8	296.4	280.4	281.5
5101.6	40°	4936.4	4532.3	2284.8	1012.9	541.6	359.3	291.1	259.1	247.4	243.1
5583.5	42.5°	5399.1	4855.3	2286.9	930.8	481.9	313.5	260.1	233.5	222.8	219.6
6119.8	45°	5863.9	5163.4	2290.1	845.5	419.0	278.3	237.8	215.4	209.0	204.7
6663.5	47.5°	6301.0	5425.7	2230.4	753.8	357.2	251.6	219.6	204.7	199.4	194.0
7209.4	50°	6708.3	5600.6	2086.5	647.2	308.1	230.3	205.8	195.1	189.8	184.4
7704.1	52.5°	7025.0	5628.3	1848.7	537.3	274.0	214.3	197.2	187.6	181.2	175.9
8103.9	55°	7165.7	5454.5	1510.8	435.0	247.4	200.4	188.7	179.1	171.7	166.3
8418.5	57.5°	7129.5	5088.8	1178.1	349.7	221.8	186.6	178.0	171.7	163.1	154.6
8673.3	60°	6951.4	4599.4	888.1	291.1	198.3	171.7	166.3	161.0	149.3	136.5
8771.4	62.5°	6643.3	3984.3	633.3	241.0	172.7	154.6	152.5	148.2	131.1	107.7
8626.4	65°	6172.0	3236.9	426.5	200.4	148.2	135.4	136.5	129.0	106.6	80.0
8095.4	67.5°	5483.3	2366.9	272.9	164.2	123.7	113.0	114.1	109.8	90.6	68.2
7088.9	70°	4605.8	1567.3	178.0	124.7	99.2	87.4	93.8	94.9	76.8	55.4
5440.7	72.5°	3376.6	925.4	124.7	92.8	72.5	60.8	76.8	78.9	61.8	41.6
3273.1	75°	1924.4	439.3	93.8	67.2	44.8	42.6	59.7	59.7	42.6	27.7
1416.9	77.5°	808.2	183.4	66.1	43.7	25.6	24.5	40.5	37.3	21.3	12.8
345.4	80°	233.5	82.1	35.2	21.3	10.7	9.6	16.0	11.7	5.3	2.1
131.1	82.5°	91.7	36.2	13.9	8.5	4.3	4.3	2.1	0.0	0.0	0.0
74.6	85°	54.4	14.9	6.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0
16.0	87.5°	13.9	3.2	2.1	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>
1849.8
1837.0
1758.1
1533.1
1217.6
950.0
795.4
687.7
619.4
570.4
521.4
471.2
424.3
383.8
330.5
285.7
242.0
218.6
204.7
194.0
184.4
174.9
165.3
153.5
134.3
105.6
77.8
65.0
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