

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: P947554

Luminaire Tested: **GALN-SB2D-840-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947554  
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-SB2D-840-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

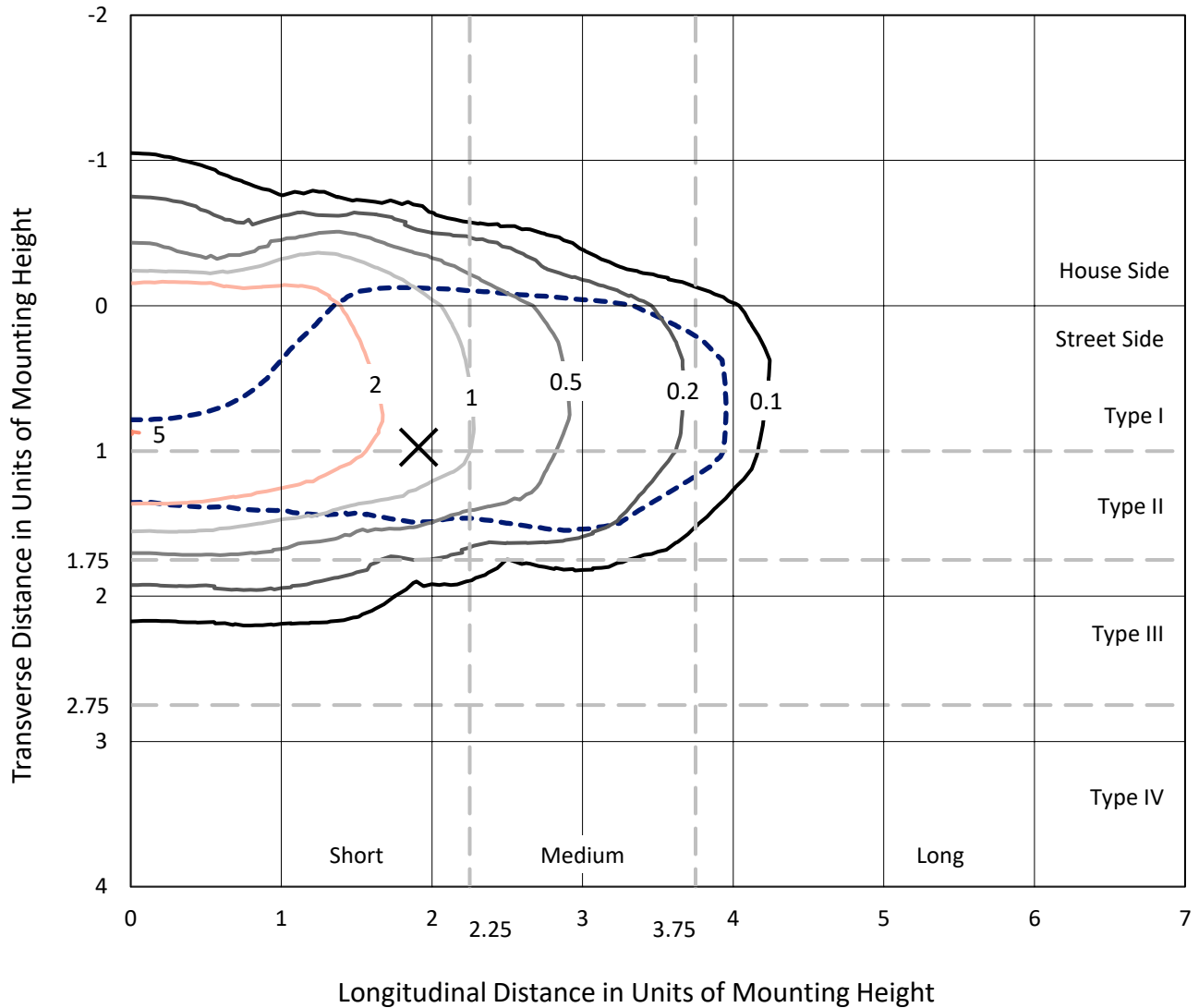
Lumens per Lamp: N/A  
Luminaire Lumens: 14876 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

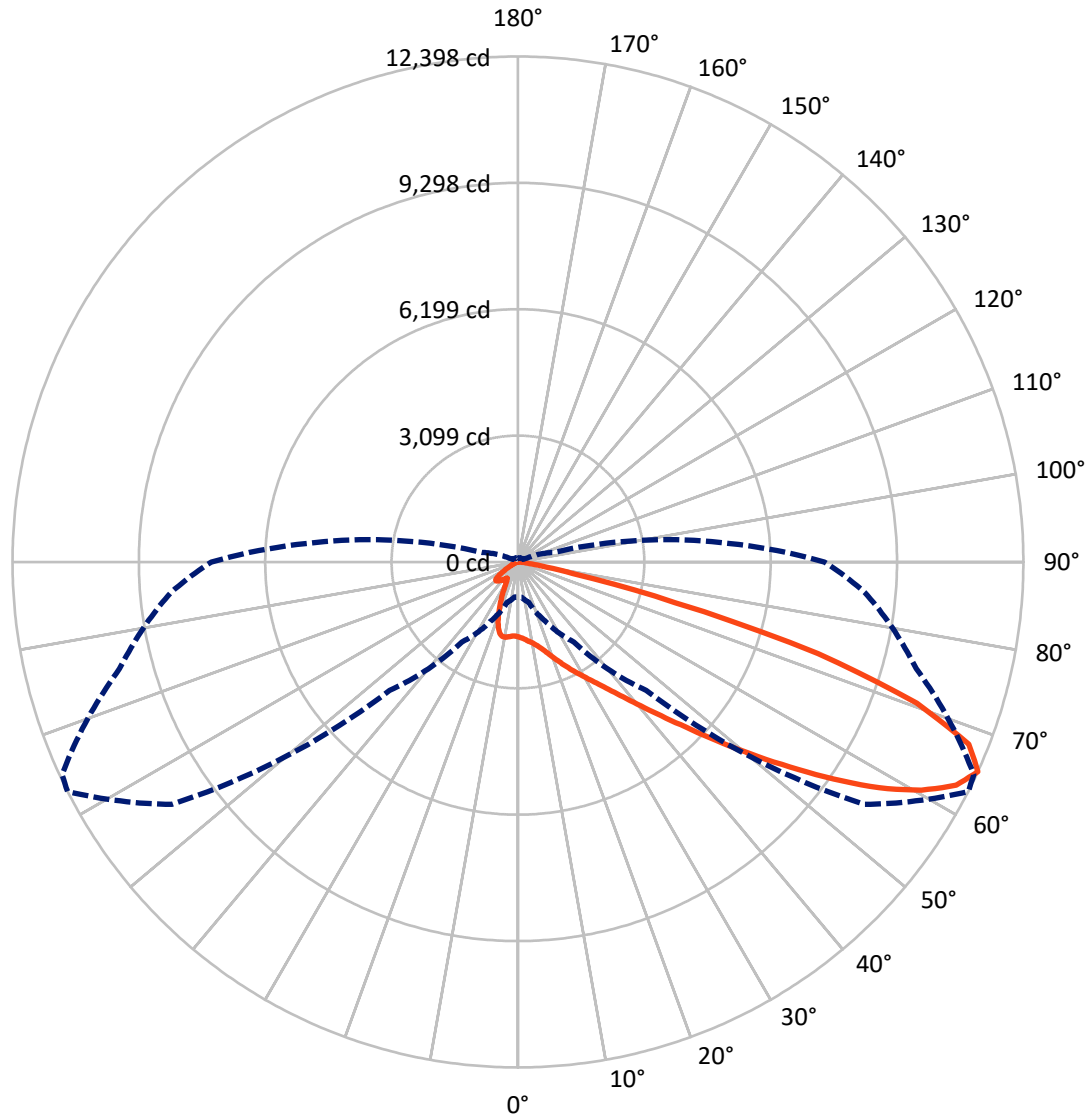
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	2186.7	0.0	2186.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	12689.3	0.0	12689.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	14876.0	0.0	14876.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.0	1.2
10°-20°	480.0	3.2
20°-30°	835.7	5.6
30°-40°	1506.3	10.1
40°-50°	2987.6	20.1
50°-60°	4069.5	27.4
60°-70°	3248.3	21.8
70°-80°	1469.9	9.9
80°-90°	105.7	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°	14876.0	100.0
0°-180°	14876.0	100.0

**Coefficient of Utilization**



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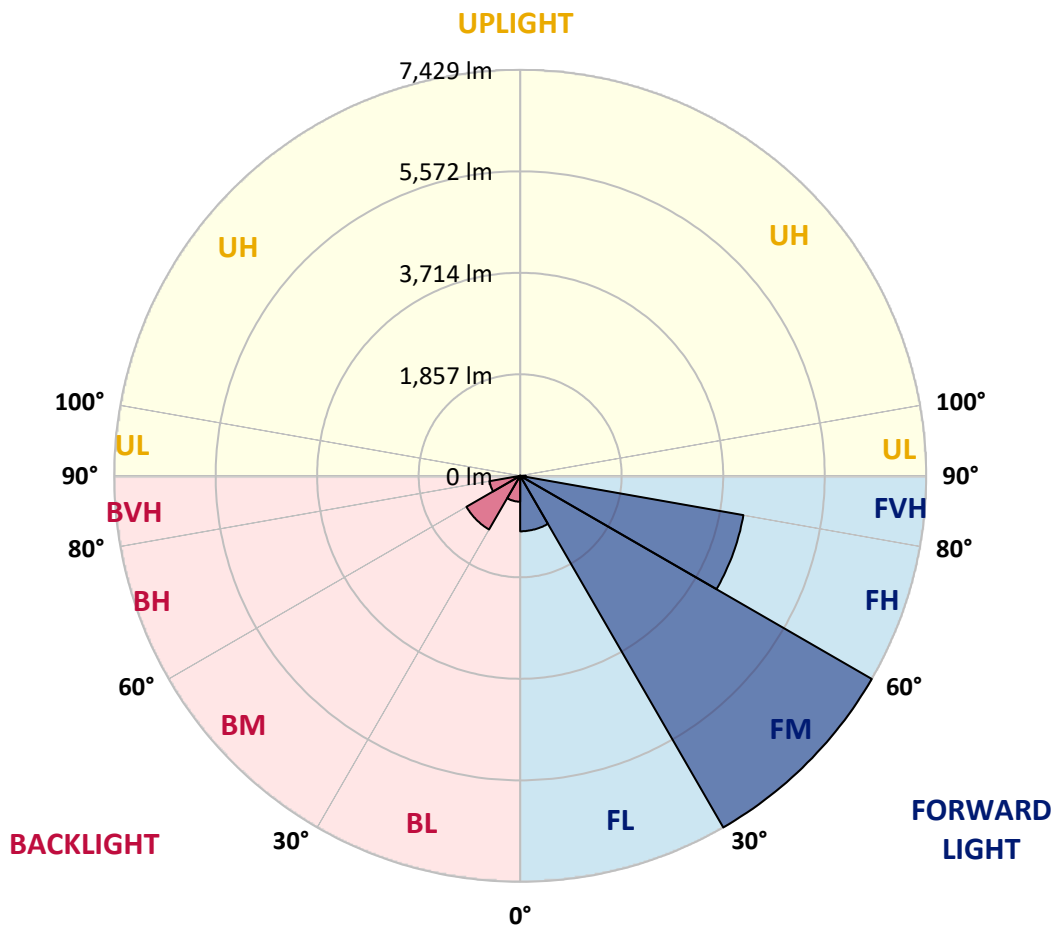
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1015.5	6.8			
FM (30°-60°)	7428.7	49.9			
FH (60°-80°)	4147.4	27.9			G2/5000
FVH (80°-90°)	97.8	0.7			G1/100
BL (0°-30°)	473.2	3.2	B1/500		
BM (30°-60°)	1134.7	7.6	B2/2500		
BH (60°-80°)	570.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	7.8	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°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1879.0	1873.8	1881.0	1877.9	1875.9	1871.8	1869.8	1867.7	1863.6	1860.5
5°	1884.1	1881.0	1888.2	1894.3	1900.5	1906.6	1909.7	1913.8	1909.7	1901.5
7.5°	1841.1	1839.0	1854.4	1872.8	1900.5	1924.0	1949.6	1963.9	1964.9	1961.9
10°	1838.0	1832.9	1848.3	1870.8	1906.6	1948.6	1993.6	2024.3	2028.4	2041.7
12.5°	1886.1	1881.0	1902.5	1927.1	1963.9	2007.9	2063.2	2106.2	2112.3	2130.7
15°	1967.0	1959.8	1984.4	2016.1	2063.2	2113.3	2171.7	2210.5	2215.7	2238.2
17.5°	2061.1	2054.0	2082.6	2116.4	2167.6	2236.1	2303.7	2346.7	2352.8	2367.1
20°	2181.9	2172.7	2195.2	2225.9	2280.1	2362.0	2442.9	2504.3	2503.2	2503.2
22.5°	2322.1	2307.8	2327.2	2351.8	2402.9	2502.2	2609.7	2682.3	2682.3	2653.7
25°	2472.5	2458.2	2479.7	2502.2	2547.2	2659.8	2785.7	2875.8	2879.8	2830.7
27.5°	2660.8	2642.4	2658.8	2685.4	2712.0	2826.6	2976.0	3080.4	3082.5	3006.7
30°	3023.1	2970.9	2919.8	2891.1	2903.4	3017.0	3176.6	3292.3	3302.5	3198.1
32.5°	3686.3	3676.1	3495.9	3260.6	3137.7	3221.7	3400.8	3539.9	3546.1	3412.0
35°	4716.9	4704.6	4414.9	3966.7	3566.5	3495.9	3673.0	3837.7	3833.7	3682.2
37.5°	5947.0	5935.7	5554.0	4954.3	4306.5	3910.4	4024.0	4197.0	4222.5	4024.0
40°	6998.0	6956.0	6714.5	6136.3	5288.9	4598.1	4523.4	4638.0	4664.7	4429.3
42.5°	7794.2	7758.4	7635.6	7274.3	6478.1	5615.4	5111.9	5155.9	5185.6	4903.1
45°	8206.6	8198.5	8247.6	8213.8	7689.8	6863.9	5953.1	5769.9	5781.2	5428.1
47.5°	8265.0	8260.9	8485.0	8802.3	8731.6	8272.1	7032.8	6535.4	6495.5	6020.7
50°	7921.1	7912.9	8342.8	8937.4	9427.6	9455.2	8258.8	7398.2	7310.1	6633.7
52.5°	6823.0	6821.0	7527.1	8516.7	9672.2	10490.9	9470.5	8345.8	8198.5	7282.5
55°	5250.0	5287.9	6097.4	7267.2	9226.0	10989.3	10558.4	9397.9	9171.7	7935.4
57.5°	3719.0	3774.3	4574.6	5616.4	7842.3	10694.5	11294.2	10452.0	10208.4	8586.3
60°	1997.7	2046.8	2848.1	4091.6	5834.4	9595.4	11682.1	11366.9	11136.6	9204.5
62.5°	1190.2	1206.6	1538.2	2641.4	3946.2	7330.6	11517.3	12063.8	11874.5	9723.3
65°	854.5	857.6	1024.4	1612.9	2395.8	4453.8	10361.9	12397.5	12339.1	10114.3
67.5°	719.5	717.4	787.0	1071.5	1632.3	2231.0	7941.6	11925.7	12173.3	10361.9
70°	617.1	620.2	702.1	784.9	1227.1	1262.9	3948.3	10383.4	10911.5	10427.4
72.5°	459.5	469.7	545.5	715.4	926.2	868.9	1363.2	7699.0	8653.9	9824.6
75°	324.4	329.5	383.8	601.8	690.8	632.5	695.9	3980.0	5204.0	7532.2
77.5°	249.7	258.9	290.6	420.6	680.6	444.2	425.7	1377.5	2116.4	4550.0
80°	135.1	151.5	209.8	303.9	477.9	314.2	210.8	548.5	717.4	2127.6
82.5°	69.6	77.8	146.3	219.0	272.2	274.3	104.4	228.2	295.8	657.0
85°	27.6	33.8	98.2	120.8	140.2	135.1	47.1	92.1	106.4	182.2
87.5°	6.1	10.2	35.8	27.6	26.6	28.7	11.3	21.5	20.5	21.5
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°
1836.0	0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
1848.3	2.5°	1847.2	1843.1	1831.9	1819.6	1805.3	1797.1	1792.0	1790.9	1783.8	1778.7
1889.2	5°	1877.9	1873.8	1852.4	1826.8	1799.1	1777.6	1757.2	1738.8	1712.1	1707.0
1948.6	7.5°	1939.3	1928.1	1893.3	1858.5	1806.3	1743.9	1668.1	1581.2	1503.4	1479.8
2027.4	10°	2015.1	1999.7	1955.7	1894.3	1778.7	1608.8	1425.6	1255.7	1120.6	1082.8
2120.5	12.5°	2101.0	2087.7	2029.4	1915.8	1663.0	1355.0	1074.6	863.7	732.8	700.0
2219.8	15°	2203.4	2183.9	2103.1	1883.1	1456.3	1029.5	737.9	613.0	565.9	559.8
2333.4	17.5°	2311.9	2280.1	2168.6	1765.4	1177.9	731.7	570.0	534.2	513.7	507.6
2448.0	20°	2411.1	2370.2	2207.5	1587.3	880.1	570.0	510.7	487.1	468.7	461.6
2562.6	22.5°	2510.4	2452.1	2207.5	1344.7	660.1	505.6	468.7	447.2	425.7	416.5
2685.4	25°	2613.8	2536.0	2168.6	1074.6	531.1	463.6	428.8	405.3	386.8	375.6
2802.1	27.5°	2714.1	2606.6	2079.5	818.7	472.8	426.8	392.0	369.4	352.0	343.9
2929.0	30°	2809.2	2676.2	1954.7	621.2	434.9	390.9	358.2	338.7	321.3	313.2
3093.7	32.5°	2938.2	2764.2	1821.7	509.7	402.2	357.2	327.5	309.1	293.7	287.6
3307.6	35°	3117.3	2894.2	1707.0	500.4	374.6	329.5	299.9	282.5	267.1	262.0
3583.9	37.5°	3371.1	3104.0	1646.7	561.8	352.0	305.0	277.3	258.9	244.6	240.5
3935.0	40°	3684.2	3388.5	1679.4	623.3	336.7	283.5	256.9	238.5	226.2	221.1
4338.2	42.5°	4055.7	3739.5	1860.5	670.3	326.5	265.1	237.4	217.0	208.8	206.7
4795.7	45°	4482.5	4125.3	2137.9	720.5	310.1	247.7	218.0	202.6	196.5	195.5
5293.0	47.5°	4967.6	4549.0	2459.2	782.9	293.7	231.3	202.6	192.4	187.3	185.2
5811.9	50°	5448.6	4975.8	2789.8	817.7	280.4	215.9	190.4	182.2	178.1	177.0
6360.4	52.5°	5952.1	5414.8	3056.9	784.9	269.2	203.7	180.1	174.0	169.9	168.9
6866.0	55°	6432.1	5769.9	3102.9	666.2	246.6	191.4	168.9	165.8	160.7	160.7
7378.7	57.5°	6845.5	5948.0	2777.5	489.2	224.1	173.0	157.6	154.5	150.4	149.4
7841.3	60°	7225.2	5896.8	2144.0	329.5	199.6	154.5	143.3	141.2	137.1	132.0
8243.5	62.5°	7439.1	5671.7	1466.5	214.9	175.0	135.1	126.9	125.9	116.7	106.4
8541.3	65°	7519.9	5209.1	914.9	156.6	146.3	115.6	109.5	107.5	94.2	82.9
8710.2	67.5°	7449.3	4447.7	461.6	123.8	115.6	96.2	90.1	90.1	80.8	70.6
8699.9	70°	7166.9	3334.2	194.4	99.3	89.0	73.7	73.7	77.8	68.6	57.3
8248.6	72.5°	6553.9	2243.3	103.4	75.7	66.5	52.2	60.4	63.5	54.2	43.0
6751.4	75°	5210.1	1368.3	71.6	56.3	42.0	36.8	46.1	48.1	36.8	28.7
4628.8	77.5°	3563.5	786.0	48.1	35.8	26.6	21.5	31.7	29.7	19.4	13.3
1784.8	80°	1564.8	327.5	27.6	16.4	10.2	8.2	11.3	8.2	6.1	4.1
244.6	82.5°	183.2	76.8	10.2	6.1	4.1	2.0	1.0	0.0	0.0	0.0
74.7	85°	37.9	9.2	5.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
13.3	87.5°	7.2	2.0	1.0	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>
1836.0
1783.8
1705.0
1468.6
1068.4
690.8
553.7
504.5
457.5
411.4
371.5
343.9
314.2
287.6
262.0
239.5
220.0
206.7
194.4
185.2
177.0
168.9
159.7
148.4
131.0
104.4
81.9
69.6
56.3
43.0
27.6
14.3
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