

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: P949654

Luminaire Tested: **GALN-SB4B-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949654  
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-SB4B-830-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

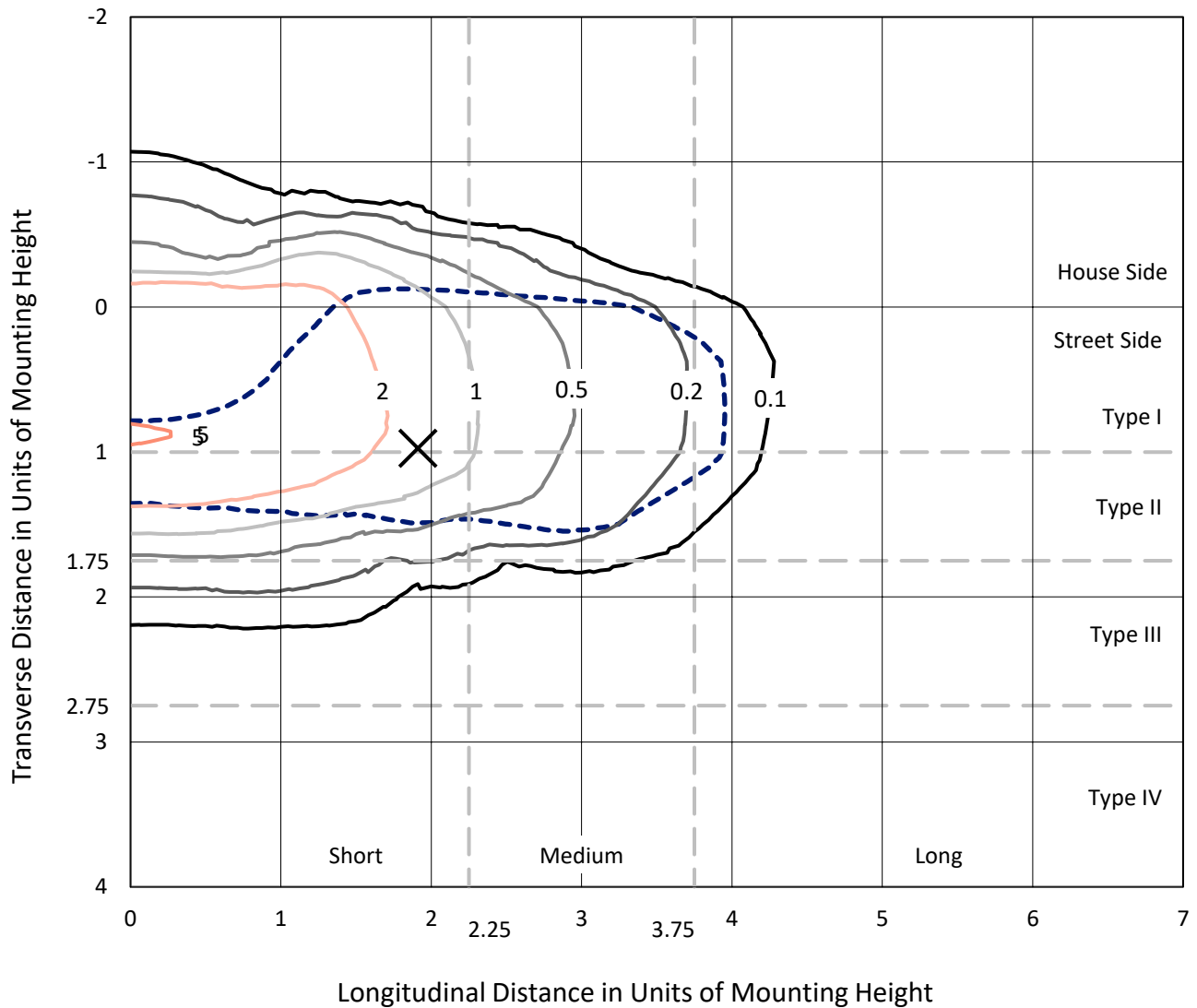
Lumens per Lamp: N/A  
Luminaire Lumens: 15498 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

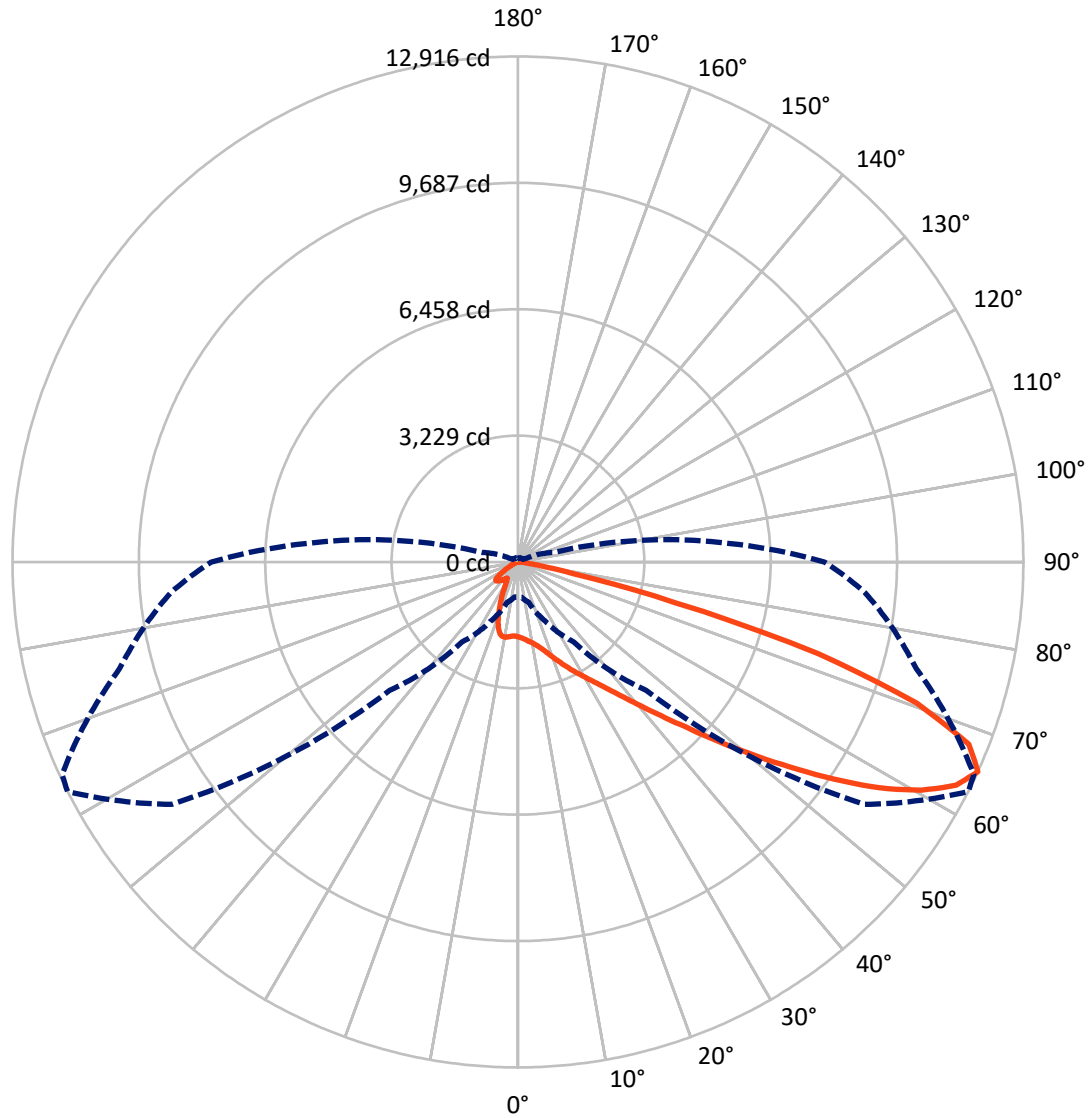
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	2278.1	0.0	2278.1
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	13219.9	0.0	13219.9
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	15498.0	0.0	15498.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.2	1.2
10°-20°	500.0	3.2
20°-30°	870.7	5.6
30°-40°	1569.3	10.1
40°-50°	3112.5	20.1
50°-60°	4239.7	27.4
60°-70°	3384.1	21.8
70°-80°	1531.4	9.9
80°-90°	110.1	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°	15498.0	100.0
0°-180°	15498.0	100.0

**Coefficient of Utilization**



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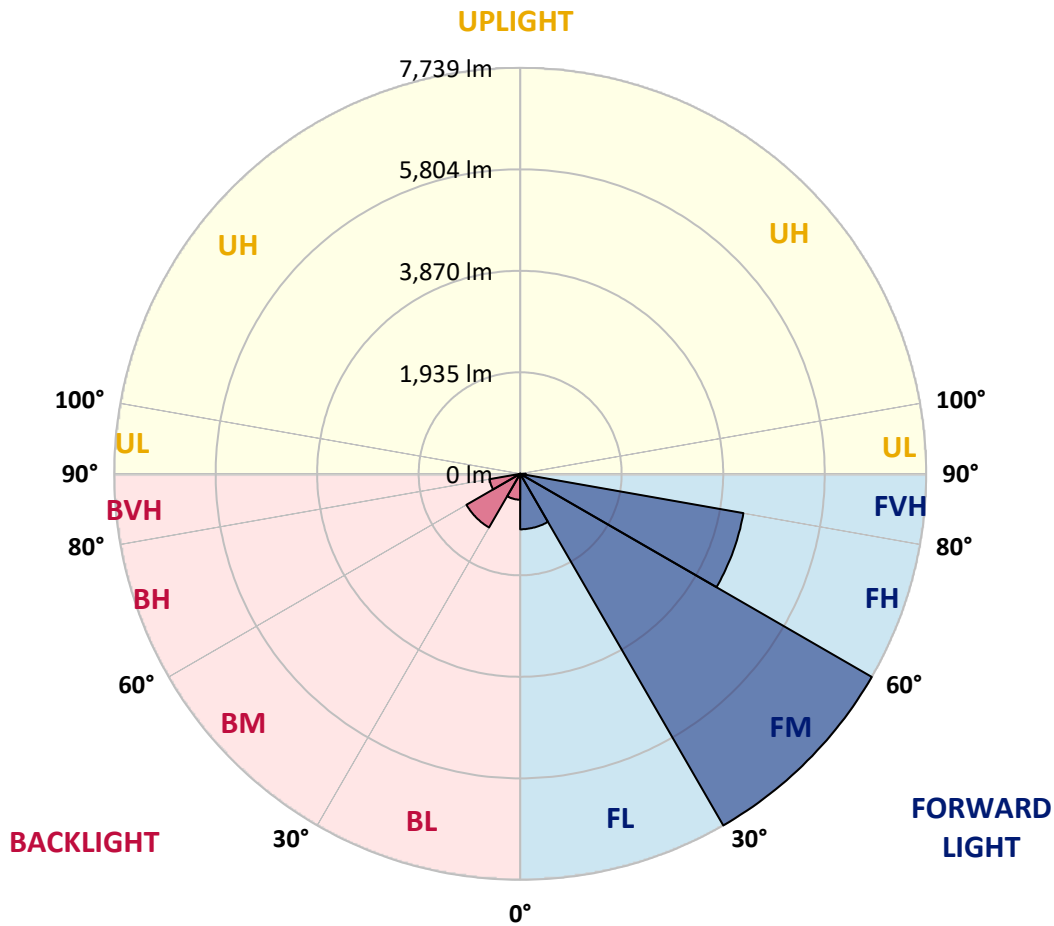
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.9	6.8			
FM (30°-60°)	7739.3	49.9			
FH (60°-80°)	4320.8	27.9			G2/5000
FVH (80°-90°)	101.9	0.7			G2/225
BL (0°-30°)	493.0	3.2	B1/500		
BM (30°-60°)	1182.2	7.6	B2/2500		
BH (60°-80°)	594.7	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.2	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°	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7
2.5°	1957.5	1952.2	1959.7	1956.5	1954.3	1950.1	1947.9	1945.8	1941.5	1938.3
5°	1962.9	1959.7	1967.1	1973.5	1979.9	1986.3	1989.5	1993.8	1989.5	1981.0
7.5°	1918.1	1915.9	1931.9	1951.1	1979.9	2004.4	2031.1	2046.0	2047.1	2043.9
10°	1914.9	1909.5	1925.5	1949.0	1986.3	2030.0	2076.9	2108.9	2113.2	2127.1
12.5°	1965.0	1959.7	1982.0	2007.6	2046.0	2091.9	2149.4	2194.2	2200.6	2219.8
15°	2049.2	2041.8	2067.3	2100.4	2149.4	2201.7	2262.5	2303.0	2308.3	2331.8
17.5°	2147.3	2139.8	2169.7	2204.9	2258.2	2329.6	2400.0	2444.8	2451.2	2466.1
20°	2273.1	2263.5	2287.0	2319.0	2375.5	2460.8	2545.0	2609.0	2607.9	2607.9
22.5°	2419.2	2404.3	2424.5	2450.1	2503.4	2606.8	2718.8	2794.5	2794.5	2764.6
25°	2575.9	2561.0	2583.4	2606.8	2653.7	2771.0	2902.2	2996.0	3000.3	2949.1
27.5°	2772.1	2752.9	2770.0	2797.7	2825.4	2944.8	3100.5	3209.2	3211.4	3132.5
30°	3149.5	3095.2	3041.8	3012.0	3024.8	3143.1	3309.5	3429.9	3440.6	3331.8
32.5°	3840.4	3829.8	3642.1	3396.9	3268.9	3356.4	3543.0	3688.0	3694.4	3554.7
35°	4914.1	4901.3	4599.5	4132.6	3715.7	3642.1	3826.6	3998.2	3994.0	3836.2
37.5°	6195.6	6183.9	5786.2	5161.4	4486.5	4073.9	4192.3	4372.4	4399.1	4192.3
40°	7290.6	7246.9	6995.3	6392.9	5510.1	4790.4	4712.6	4832.0	4859.7	4614.5
42.5°	8120.1	8082.8	7954.8	7578.5	6749.0	5850.2	5325.6	5371.5	5402.4	5108.1
45°	8549.8	8541.3	8592.4	8557.2	8011.4	7150.9	6202.0	6011.2	6022.9	5655.1
47.5°	8610.6	8606.3	8839.8	9170.3	9096.7	8618.0	7326.9	6808.7	6767.1	6272.4
50°	8252.3	8243.8	8691.6	9311.0	9821.7	9850.5	8604.2	7707.5	7615.8	6911.0
52.5°	7108.3	7106.2	7841.8	8872.8	10076.6	10929.5	9866.5	8694.8	8541.3	7587.0
55°	5469.6	5509.0	6352.4	7571.0	9611.7	11448.8	10999.9	9790.8	9555.2	8267.2
57.5°	3874.5	3932.1	4765.9	5851.3	8170.2	11141.7	11766.5	10889.0	10635.3	8945.3
60°	2081.2	2132.4	2967.2	4262.6	6078.4	9996.6	12170.6	11842.2	11602.3	9589.3
62.5°	1240.0	1257.0	1602.5	2751.8	4111.2	7637.1	11998.9	12568.3	12371.0	10129.9
65°	890.3	893.5	1067.3	1680.3	2496.0	4640.1	10795.2	12915.8	12855.1	10537.2
67.5°	749.5	747.4	819.9	1116.3	1700.6	2324.3	8273.6	12424.3	12682.3	10795.2
70°	642.9	646.1	731.4	817.8	1278.4	1315.7	4113.4	10817.6	11367.7	10863.4
72.5°	478.7	489.4	568.3	745.3	964.9	905.2	1420.2	8021.0	9015.7	10235.4
75°	338.0	343.3	399.8	626.9	719.7	658.9	725.0	4146.4	5421.6	7847.2
77.5°	260.2	269.7	302.8	438.2	709.0	462.7	443.5	1435.1	2204.9	4740.3
80°	140.7	157.8	218.6	316.7	497.9	327.3	219.6	571.5	747.4	2216.6
82.5°	72.5	81.0	152.5	228.2	283.6	285.7	108.8	237.8	308.1	684.5
85°	28.8	35.2	102.4	125.8	146.1	140.7	49.0	96.0	110.9	189.8
87.5°	6.4	10.7	37.3	28.8	27.7	29.9	11.7	22.4	21.3	22.4
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°
1912.7	0°	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7
1925.5	2.5°	1924.5	1920.2	1908.5	1895.7	1880.8	1872.2	1866.9	1865.8	1858.4	1853.0
1968.2	5°	1956.5	1952.2	1929.8	1903.2	1874.4	1852.0	1830.6	1811.5	1783.7	1778.4
2030.0	7.5°	2020.4	2008.7	1972.5	1936.2	1881.8	1816.8	1737.9	1647.3	1566.2	1541.7
2112.1	10°	2099.3	2083.3	2037.5	1973.5	1853.0	1676.1	1485.2	1308.2	1167.5	1128.0
2209.1	12.5°	2188.9	2175.0	2114.3	1995.9	1732.6	1411.6	1119.5	899.9	763.4	729.3
2312.6	15°	2295.5	2275.3	2191.0	1961.8	1517.2	1072.6	768.7	638.6	589.6	583.2
2430.9	17.5°	2408.5	2375.5	2259.3	1839.2	1227.2	762.3	593.9	556.6	535.2	528.8
2550.3	20°	2511.9	2469.3	2299.8	1653.7	916.9	593.9	532.0	507.5	488.3	480.9
2669.7	22.5°	2615.4	2554.6	2299.8	1401.0	687.7	526.7	488.3	465.9	443.5	433.9
2797.7	25°	2723.1	2642.0	2259.3	1119.5	553.4	483.0	446.7	422.2	403.0	391.3
2919.2	27.5°	2827.5	2715.6	2166.5	853.0	492.6	444.6	408.4	384.9	366.8	358.2
3051.4	30°	2926.7	2788.1	2036.4	647.2	453.1	407.3	373.2	352.9	334.8	326.3
3223.1	32.5°	3061.0	2879.8	1897.8	531.0	419.0	372.1	341.2	322.0	306.0	299.6
3445.9	35°	3247.6	3015.2	1778.4	521.4	390.2	343.3	312.4	294.3	278.3	272.9
3733.8	37.5°	3512.0	3233.8	1715.5	585.3	366.8	317.7	288.9	269.7	254.8	250.6
4099.5	40°	3838.3	3530.2	1749.6	649.3	350.8	295.3	267.6	248.4	235.6	230.3
4519.6	42.5°	4225.3	3895.9	1938.3	698.4	340.1	276.1	247.4	226.0	217.5	215.4
4996.2	45°	4669.9	4297.8	2227.3	750.6	323.1	258.0	227.1	211.1	204.7	203.6
5514.3	47.5°	5175.3	4739.2	2562.1	815.6	306.0	241.0	211.1	200.4	195.1	193.0
6054.9	50°	5676.4	5183.8	2906.4	851.9	292.1	225.0	198.3	189.8	185.5	184.5
6626.4	52.5°	6201.0	5641.2	3184.7	817.8	280.4	212.2	187.6	181.3	177.0	175.9
7153.1	55°	6701.0	6011.2	3232.7	694.1	257.0	199.4	175.9	172.7	167.4	167.4
7687.2	57.5°	7131.7	6196.7	2893.6	509.6	233.5	180.2	164.2	161.0	156.7	155.7
8169.2	60°	7527.3	6143.4	2233.7	343.3	207.9	161.0	149.3	147.1	142.9	137.5
8588.2	62.5°	7750.1	5908.8	1527.9	223.9	182.3	140.7	132.2	131.1	121.5	110.9
8898.4	65°	7834.4	5426.9	953.2	163.1	152.5	120.5	114.1	112.0	98.1	86.4
9074.3	67.5°	7760.8	4633.7	480.9	129.0	120.5	100.2	93.8	93.8	84.2	73.6
9063.7	70°	7466.5	3473.6	202.6	103.4	92.8	76.8	76.8	81.0	71.4	59.7
8593.5	72.5°	6827.9	2337.1	107.7	78.9	69.3	54.4	62.9	66.1	56.5	44.8
7033.7	75°	5428.0	1425.5	74.6	58.6	43.7	38.4	48.0	50.1	38.4	29.9
4822.4	77.5°	3712.5	818.8	50.1	37.3	27.7	22.4	33.1	30.9	20.3	13.9
1859.4	80°	1630.2	341.2	28.8	17.1	10.7	8.5	11.7	8.5	6.4	4.3
254.8	82.5°	190.8	80.0	10.7	6.4	4.3	2.1	1.1	0.0	0.0	0.0
77.8	85°	39.4	9.6	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
13.9	87.5°	7.5	2.1	1.1	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>
1912.7
1858.4
1776.3
1530.0
1113.1
719.7
576.8
525.6
476.6
428.6
387.0
358.2
327.3
299.6
272.9
249.5
229.2
215.4
202.6
193.0
184.5
175.9
166.3
154.6
136.5
108.8
85.3
72.5
58.6
44.8
28.8
14.9
4.3
0.0
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