

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: P948583

Luminaire Tested: **GALN-SB3C-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948583  
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-SB3C-830-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

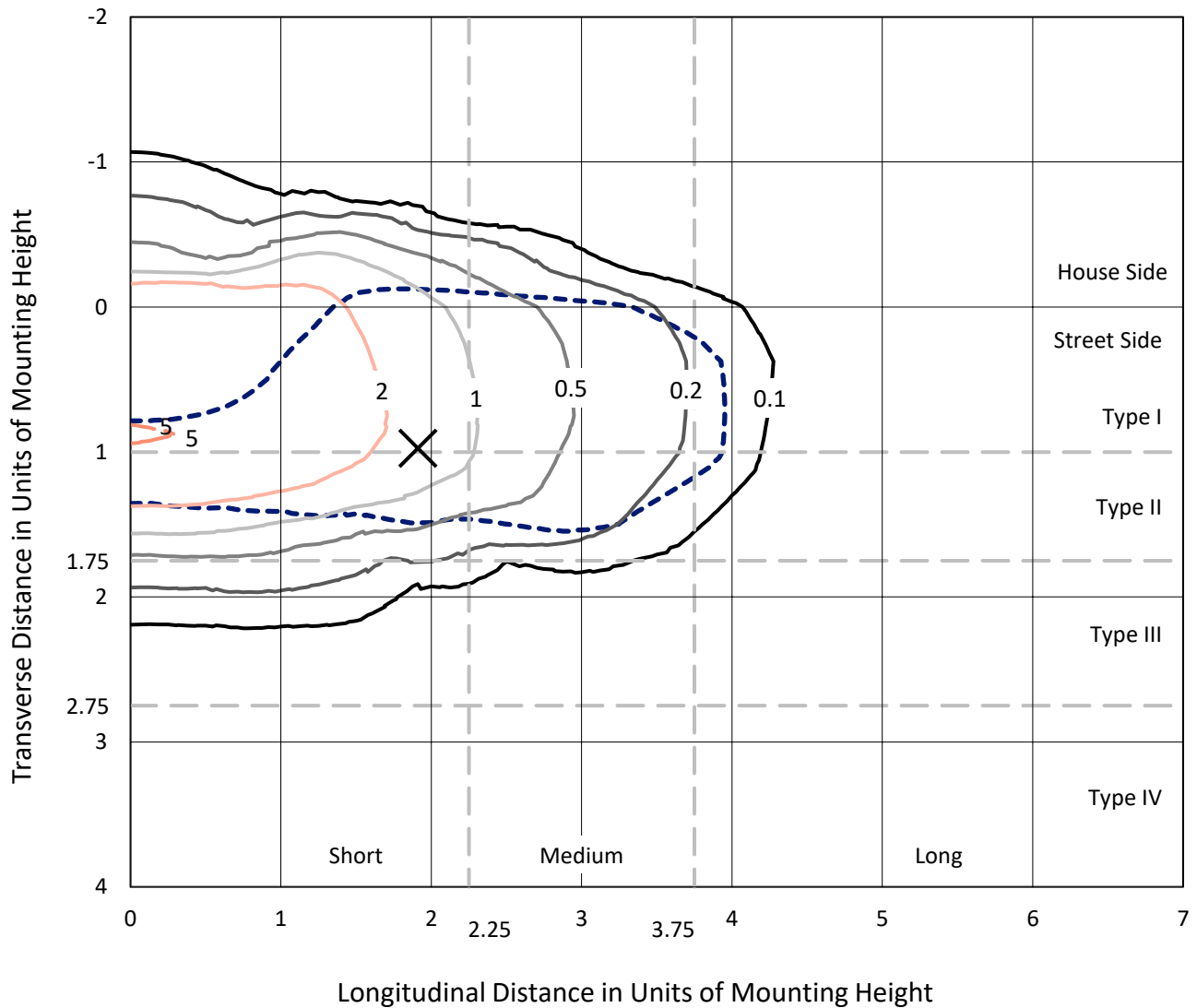
Lumens per Lamp: N/A  
Luminaire Lumens: 15430 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

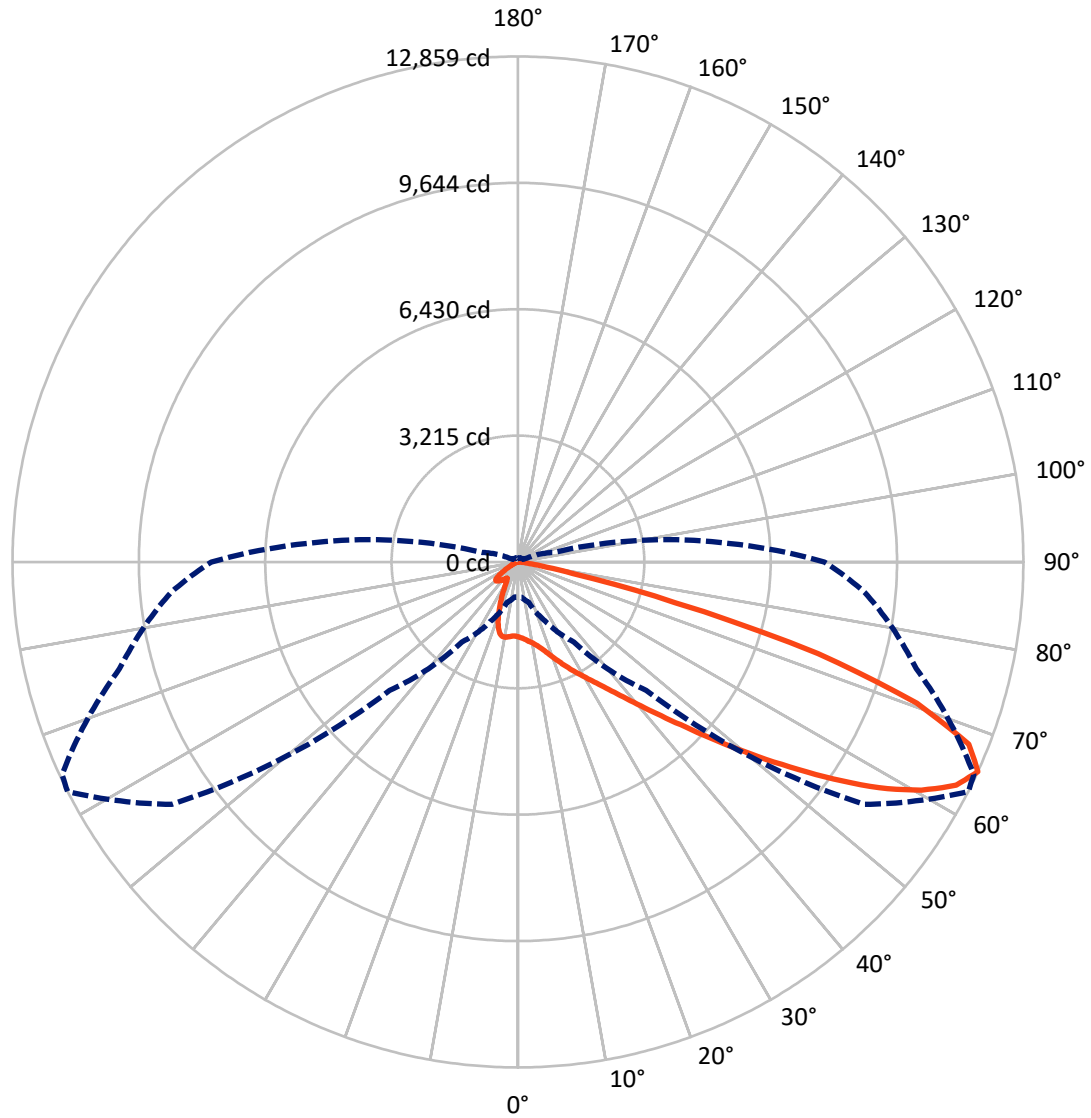
✕ Max cd  
 - - - 1/2 Max cd



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	2268.1	0.0	2268.1
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	13161.9	0.0	13161.9
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	15430.0	0.0	15430.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.4	1.2
10°-20°	497.8	3.2
20°-30°	866.9	5.6
30°-40°	1562.4	10.1
40°-50°	3098.8	20.1
50°-60°	4221.1	27.4
60°-70°	3369.3	21.8
70°-80°	1524.7	9.9
80°-90°	109.6	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°	15430.0	100.0
0°-180°	15430.0	100.0



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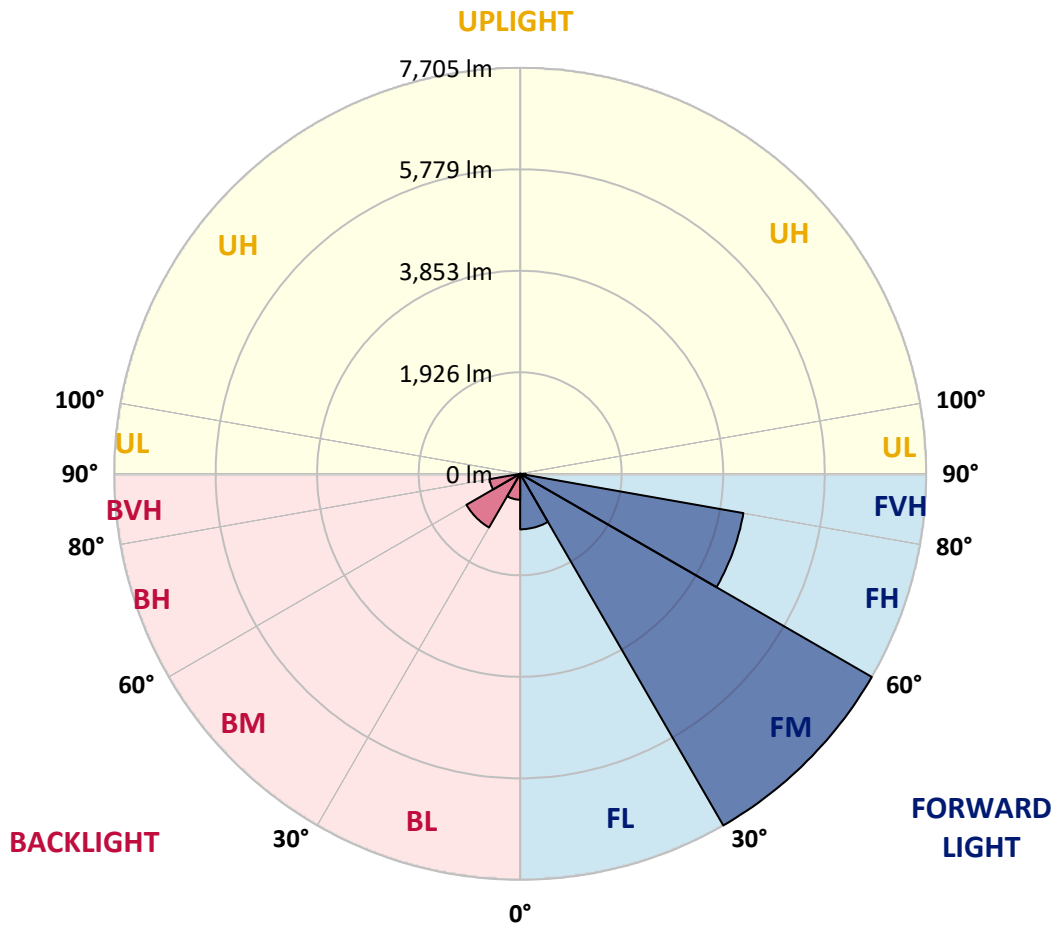
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.3	6.8			
FM (30°-60°)	7705.4	49.9			
FH (60°-80°)	4301.8	27.9			G2/5000
FVH (80°-90°)	101.5	0.7			G2/225
BL (0°-30°)	490.9	3.2	B1/500		
BM (30°-60°)	1177.0	7.6	B2/2500		
BH (60°-80°)	592.1	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.1	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°	1904.4	1904.4	1904.4	1904.4	1904.4	1904.4	1904.4	1904.4	1904.4	1904.4
2.5°	1948.9	1943.6	1951.1	1947.9	1945.8	1941.5	1939.4	1937.3	1933.0	1929.8
5°	1954.2	1951.1	1958.5	1964.9	1971.2	1977.6	1980.8	1985.0	1980.8	1972.3
7.5°	1909.7	1907.5	1923.5	1942.6	1971.2	1995.6	2022.2	2037.0	2038.1	2034.9
10°	1906.5	1901.2	1917.1	1940.4	1977.6	2021.1	2067.8	2099.7	2103.9	2117.7
12.5°	1956.4	1951.1	1973.4	1998.8	2037.0	2082.7	2140.0	2184.6	2191.0	2210.1
15°	2040.2	2032.8	2058.3	2091.2	2140.0	2192.0	2252.5	2292.9	2298.2	2321.5
17.5°	2137.9	2130.5	2160.2	2195.2	2248.3	2319.4	2389.5	2434.0	2440.4	2455.3
20°	2263.1	2253.6	2276.9	2308.8	2365.0	2450.0	2533.8	2597.5	2596.5	2596.5
22.5°	2408.6	2393.7	2413.9	2439.4	2492.4	2595.4	2706.9	2782.2	2782.2	2752.5
25°	2564.6	2549.8	2572.0	2595.4	2642.1	2758.9	2889.4	2982.9	2987.1	2936.1
27.5°	2759.9	2740.8	2757.8	2785.4	2813.0	2931.9	3086.9	3195.2	3197.3	3118.7
30°	3135.7	3081.6	3028.5	2998.8	3011.5	3129.3	3294.9	3414.9	3425.5	3317.2
32.5°	3823.6	3813.0	3626.1	3382.0	3254.6	3341.6	3527.4	3671.8	3678.1	3539.1
35°	4892.5	4879.8	4579.4	4114.4	3699.4	3626.1	3809.8	3980.7	3976.4	3819.3
37.5°	6168.4	6156.8	5760.8	5138.8	4466.8	4056.0	4173.9	4353.3	4379.8	4173.9
40°	7258.6	7215.1	6964.6	6364.8	5485.9	4769.4	4691.9	4810.8	4838.4	4594.2
42.5°	8084.5	8047.3	7919.9	7545.2	6719.4	5824.5	5302.3	5347.9	5378.7	5085.7
45°	8512.3	8503.8	8554.7	8519.7	7976.2	7119.6	6174.8	5984.8	5996.5	5630.3
47.5°	8572.8	8568.5	8801.0	9130.1	9056.8	8580.2	7294.7	6778.8	6737.4	6244.9
50°	8216.1	8207.6	8653.5	9270.2	9778.7	9807.3	8566.4	7673.7	7582.4	6880.7
52.5°	7077.1	7075.0	7807.4	8833.9	10032.4	10881.6	9823.2	8656.6	8503.8	7553.7
55°	5445.6	5484.8	6324.5	7537.8	9569.5	11398.5	10951.6	9747.9	9513.3	8231.0
57.5°	3857.5	3914.9	4745.0	5825.6	8134.4	11092.8	11714.9	10841.2	10588.6	8906.1
60°	2072.1	2123.0	2954.2	4243.9	6051.7	9952.7	12117.2	11790.2	11551.4	9547.2
62.5°	1234.5	1251.5	1595.5	2739.8	4093.2	7603.6	11946.3	12513.1	12316.7	10085.4
65°	886.4	889.5	1062.6	1672.9	2485.0	4619.7	10747.8	12859.2	12798.7	10490.9
67.5°	746.2	744.1	816.3	1111.4	1693.1	2314.1	8237.3	12369.8	12626.7	10747.8
70°	640.1	643.3	728.2	814.2	1272.8	1309.9	4095.3	10770.1	11317.8	10815.8
72.5°	476.6	487.2	565.8	742.0	960.7	901.2	1413.9	7985.8	8976.2	10190.5
75°	336.5	341.8	398.1	624.2	716.5	656.0	721.8	4128.2	5397.8	7812.7
77.5°	259.0	268.6	301.5	436.3	705.9	460.7	441.6	1428.8	2195.2	4719.5
80°	140.1	157.1	217.6	315.3	495.7	325.9	218.7	569.0	744.1	2206.9
82.5°	72.2	80.7	151.8	227.2	282.4	284.5	108.3	236.7	306.8	681.5
85°	28.7	35.0	101.9	125.3	145.4	140.1	48.8	95.5	110.4	188.9
87.5°	6.4	10.6	37.2	28.7	27.6	29.7	11.7	22.3	21.2	22.3
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°
1904.4	0°	1904.4	1904.4	1904.4	1904.4	1904.4	1904.4	1904.4	1904.4	1904.4	1904.4
1917.1	2.5°	1916.0	1911.8	1900.1	1887.4	1872.5	1864.0	1858.7	1857.6	1850.2	1844.9
1959.6	5°	1947.9	1943.6	1921.3	1894.8	1866.1	1843.8	1822.6	1803.5	1775.9	1770.6
2021.1	7.5°	2011.6	1999.9	1963.8	1927.7	1873.6	1808.8	1730.3	1640.0	1559.4	1534.9
2102.9	10°	2090.1	2074.2	2028.6	1964.9	1844.9	1668.7	1478.7	1302.5	1162.4	1123.1
2199.5	12.5°	2179.3	2165.5	2105.0	1987.2	1725.0	1405.4	1114.6	895.9	760.0	726.1
2302.4	15°	2285.4	2265.3	2181.4	1953.2	1510.5	1067.9	765.4	635.8	587.0	580.6
2420.2	17.5°	2398.0	2365.0	2249.3	1831.1	1221.8	759.0	591.3	554.1	532.9	526.5
2539.1	20°	2500.9	2458.5	2289.7	1646.4	912.9	591.3	529.7	505.3	486.2	478.7
2658.0	22.5°	2603.9	2543.4	2289.7	1394.8	684.7	524.4	486.2	463.9	441.6	432.0
2785.4	25°	2711.1	2630.4	2249.3	1114.6	550.9	480.9	444.8	420.4	401.3	389.6
2906.4	27.5°	2815.1	2703.7	2157.0	849.2	490.4	442.7	406.6	383.2	365.2	356.7
3038.0	30°	2913.9	2775.9	2027.5	644.3	451.1	405.5	371.5	351.4	333.3	324.8
3209.0	32.5°	3047.6	2867.1	1889.5	528.6	417.2	370.5	339.7	320.6	304.7	298.3
3430.8	35°	3233.4	3002.0	1770.6	519.1	388.5	341.8	311.0	293.0	277.1	271.7
3717.4	37.5°	3496.6	3219.6	1708.0	582.8	365.2	316.3	287.7	268.6	253.7	249.5
4081.5	40°	3821.4	3514.7	1741.9	646.5	349.2	294.0	266.4	247.3	234.6	229.3
4499.8	42.5°	4206.8	3878.8	1929.8	695.3	338.6	274.9	246.3	225.0	216.5	214.4
4974.2	45°	4649.4	4279.0	2217.5	747.3	321.6	256.9	226.1	210.2	203.8	202.7
5490.1	47.5°	5152.6	4718.4	2550.8	812.1	304.7	239.9	210.2	199.6	194.3	192.1
6028.3	50°	5651.5	5161.1	2893.7	848.1	290.9	224.0	197.4	188.9	184.7	183.6
6597.3	52.5°	6173.8	5616.5	3170.7	814.2	279.2	211.2	186.8	180.5	176.2	175.1
7121.7	55°	6671.6	5984.8	3218.5	691.0	255.8	198.5	175.1	172.0	166.7	166.7
7653.5	57.5°	7100.5	6169.5	2880.9	507.4	232.5	179.4	163.5	160.3	156.0	155.0
8133.3	60°	7494.3	6116.4	2223.9	341.8	207.0	160.3	148.6	146.5	142.2	136.9
8550.5	62.5°	7716.1	5882.9	1521.1	222.9	181.5	140.1	131.6	130.6	121.0	110.4
8859.4	65°	7800.0	5403.1	949.0	162.4	151.8	120.0	113.6	111.5	97.7	86.0
9034.5	67.5°	7726.7	4613.3	478.7	128.4	120.0	99.8	93.4	93.4	83.9	73.2
9023.9	70°	7433.8	3458.4	201.7	103.0	92.4	76.4	76.4	80.7	71.1	59.4
8555.8	72.5°	6797.9	2326.8	107.2	78.6	69.0	54.1	62.6	65.8	56.3	44.6
7002.8	75°	5404.2	1419.2	74.3	58.4	43.5	38.2	47.8	49.9	38.2	29.7
4801.2	77.5°	3696.2	815.2	49.9	37.2	27.6	22.3	32.9	30.8	20.2	13.8
1851.3	80°	1623.1	339.7	28.7	17.0	10.6	8.5	11.7	8.5	6.4	4.2
253.7	82.5°	190.0	79.6	10.6	6.4	4.2	2.1	1.1	0.0	0.0	0.0
77.5	85°	39.3	9.6	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
13.8	87.5°	7.4	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>
1904.4
1850.2
1768.5
1523.3
1108.2
716.5
574.3
523.3
474.5
426.7
385.3
356.7
325.9
298.3
271.7
248.4
228.2
214.4
201.7
192.1
183.6
175.1
165.6
153.9
135.9
108.3
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72.2
58.4
44.6
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