

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: P942186

Luminaire Tested: **GALN-SB6A-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942186
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-SB6A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA 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: 18551 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

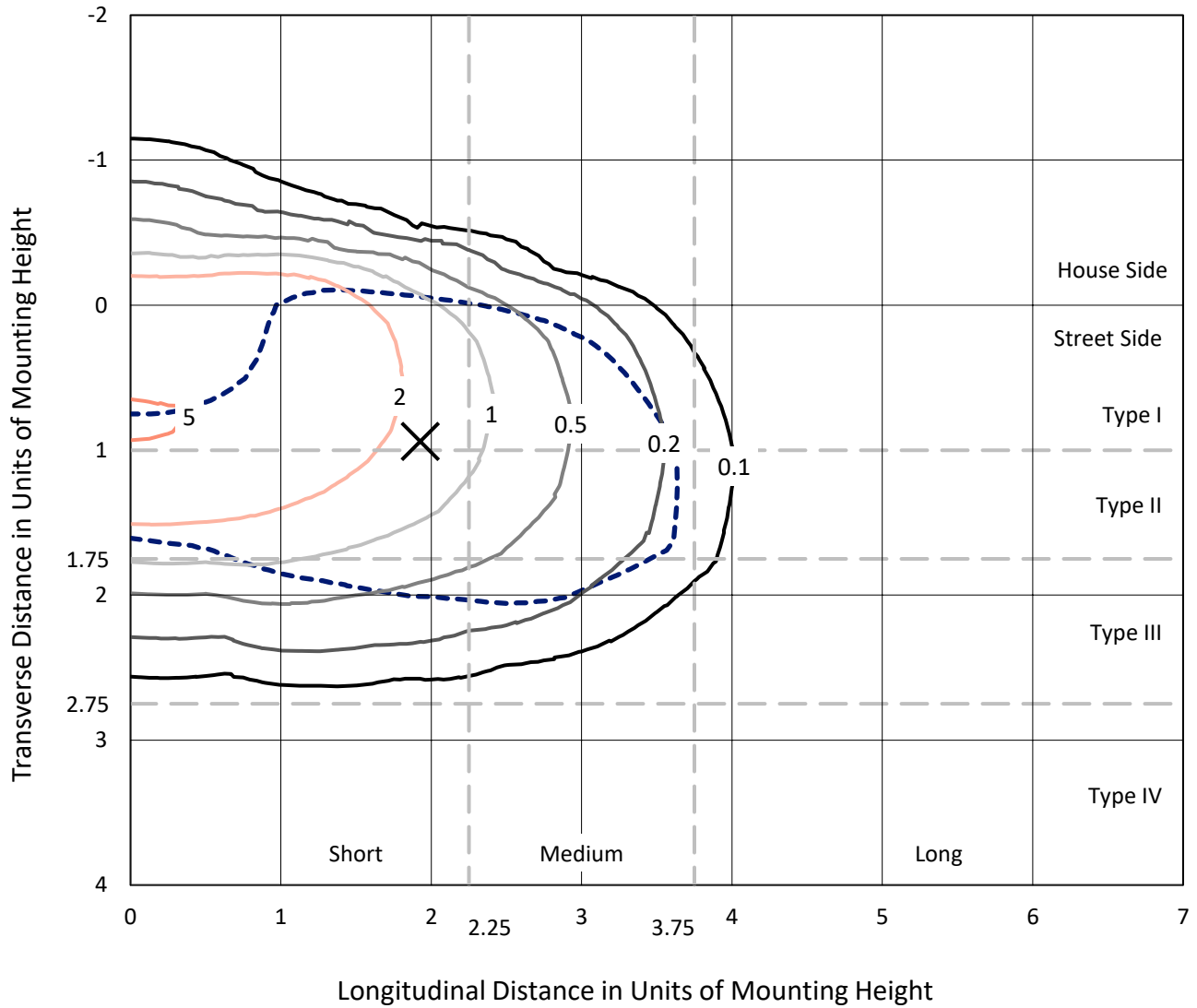
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

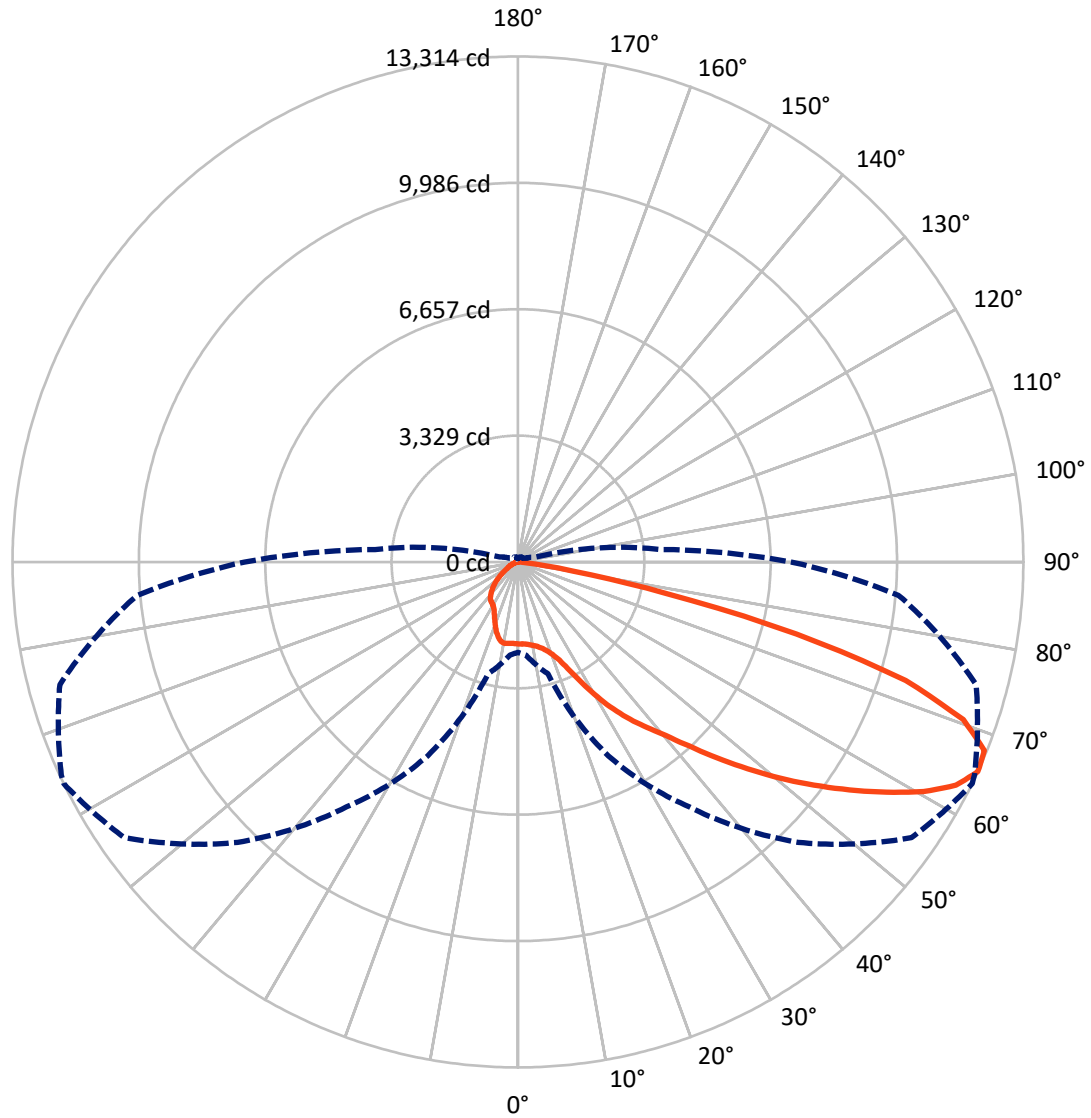
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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
House Side	Lumens	2480.8	0.0	2480.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16070.2	0.0	16070.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	18551.0	0.0	18551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	1.1
10°-20°	539.9	2.9
20°-30°	1023.1	5.5
30°-40°	2070.3	11.2
40°-50°	3526.8	19.0
50°-60°	4796.1	25.9
60°-70°	4503.8	24.3
70°-80°	1804.4	9.7
80°-90°	87.4	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°	18551.0	100.0
0°-180°	18551.0	100.0

Coefficient of Utilization



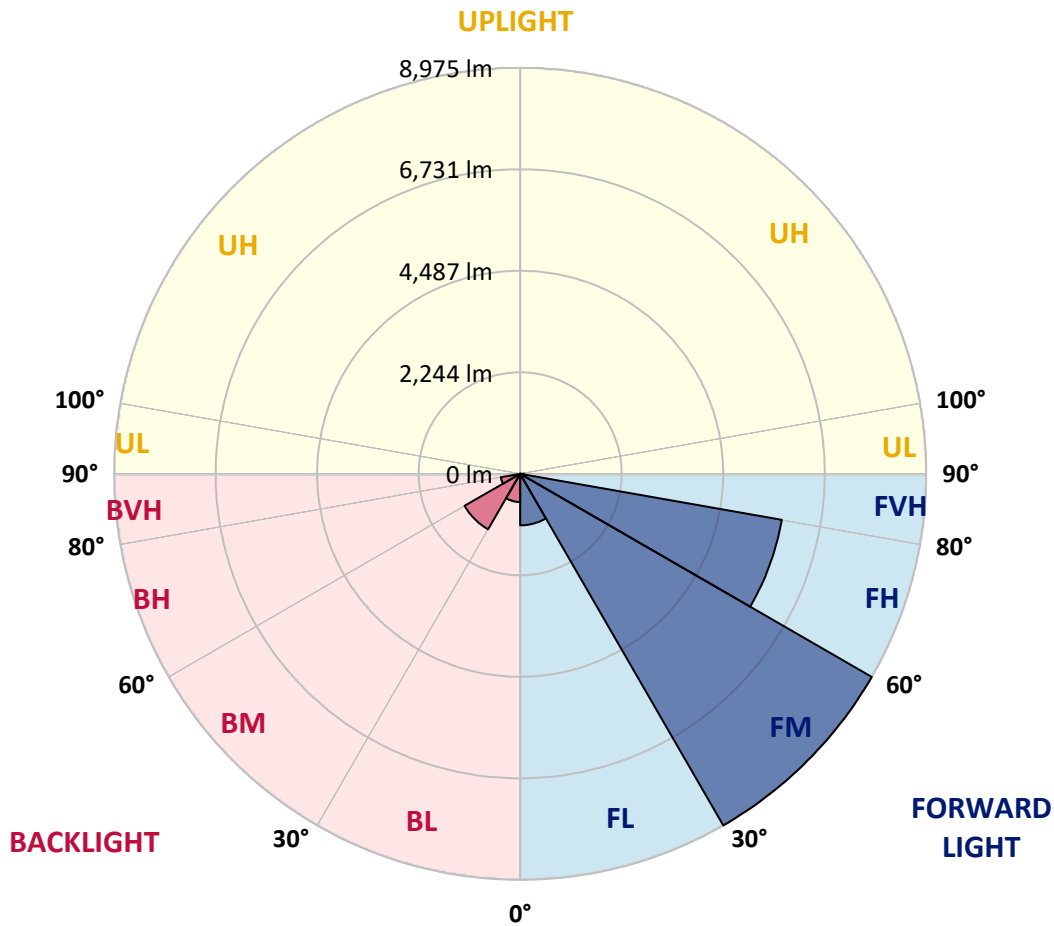
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1139.2	6.1			
FM (30°-60°)	8975.0	48.4			
FH (60°-80°)	5872.8	31.7			G3/7500
FVH (80°-90°)	83.2	0.4			G1/100
BL (0°-30°)	622.9	3.4	B2/1000		
BM (30°-60°)	1418.3	7.6	B2/2500		
BH (60°-80°)	435.4	2.3	B1/500		G1/500
BVH (80°-90°)	4.3	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°	2157.7	2157.7	2157.7	2157.7	2157.7	2157.7	2157.7	2157.7	2157.7	2157.7
2.5°	2150.2	2165.1	2161.4	2157.7	2156.4	2158.9	2160.2	2158.9	2158.9	2158.9
5°	2109.2	2121.6	2121.6	2130.3	2142.8	2157.7	2168.9	2171.4	2173.8	2177.6
7.5°	2030.8	2040.8	2048.2	2076.8	2107.9	2147.7	2181.3	2198.7	2201.2	2214.9
10°	1977.3	1989.8	2002.2	2032.1	2076.8	2136.5	2193.7	2236.0	2242.2	2274.6
12.5°	1974.9	1987.3	2003.5	2035.8	2088.0	2151.5	2221.1	2282.0	2293.2	2340.5
15°	2001.0	2015.9	2030.8	2070.6	2126.6	2203.7	2278.3	2354.2	2365.4	2432.5
17.5°	2054.5	2074.4	2085.5	2125.3	2185.0	2270.8	2369.1	2456.1	2466.1	2544.4
20°	2160.2	2183.8	2187.5	2219.9	2278.3	2370.3	2487.2	2595.4	2607.9	2697.4
22.5°	2379.0	2412.6	2382.8	2398.9	2451.2	2543.2	2670.0	2806.8	2824.3	2926.2
25°	2764.6	2811.8	2734.7	2707.4	2729.7	2825.5	2984.7	3157.5	3177.4	3259.5
27.5°	3521.9	3461.0	3344.1	3229.7	3162.5	3217.2	3396.3	3610.2	3635.1	3714.7
30°	4353.9	4300.4	4142.5	3888.8	3729.6	3720.9	3886.3	4125.1	4153.7	4229.5
32.5°	5187.1	5136.1	4964.5	4652.4	4376.3	4239.5	4353.9	4618.8	4633.7	4682.2
35°	6006.7	5954.4	5782.8	5463.2	5123.7	4812.8	4790.4	5088.9	5093.9	5144.8
37.5°	6831.2	6787.7	6604.8	6291.5	5956.9	5527.9	5320.2	5534.1	5540.3	5590.1
40°	7419.4	7438.1	7312.5	7070.0	6782.7	6313.8	5914.6	6007.9	5970.6	6053.9
42.5°	7924.3	7961.6	7852.2	7730.3	7563.7	7150.8	6650.9	6634.7	6575.0	6619.8
45°	8360.8	8391.9	8293.7	8265.1	8261.3	7971.6	7455.5	7358.5	7275.2	7266.4
47.5°	8521.3	8581.0	8623.2	8719.0	8905.5	8783.7	8287.5	8137.0	8043.7	7975.3
50°	8582.2	8645.6	8789.9	9068.4	9509.9	9562.2	9115.7	8946.6	8832.2	8707.8
52.5°	8500.1	8613.3	8807.3	9276.1	9916.6	10186.5	9910.4	9762.4	9631.8	9429.1
55°	8016.3	8129.5	8526.2	9273.6	10119.3	10624.2	10661.5	10595.6	10448.9	10129.3
57.5°	6996.6	7164.5	7792.5	8957.8	10115.6	11001.0	11397.7	11445.0	11280.8	10823.2
60°	5583.8	5811.4	6577.5	8257.6	9803.4	11205.0	12043.2	12279.5	12105.4	11507.2
62.5°	3896.2	4159.9	4884.9	7160.7	9089.6	11058.2	12514.5	12951.0	12819.2	12119.0
65°	2376.6	2461.1	3045.6	5634.8	7875.8	10443.9	12660.0	13314.2	13270.6	12493.4
67.5°	1583.1	1654.0	1821.9	3863.9	6113.6	9216.4	12311.8	13250.7	13263.2	12432.4
70°	953.9	1014.8	1124.2	2247.2	3962.2	7295.1	11233.6	12442.4	12514.5	11617.9
72.5°	393.0	434.0	533.5	1018.5	2052.0	4630.0	8945.3	10682.7	10850.6	9768.6
75°	222.6	243.7	313.4	511.1	890.4	2157.7	5418.4	7583.6	7831.1	6732.9
77.5°	148.0	157.9	202.7	330.8	501.2	736.2	2315.6	3951.0	4423.5	3677.4
80°	99.5	108.2	139.3	221.4	325.8	315.9	737.5	1463.7	1800.8	1263.5
82.5°	67.2	68.4	99.5	145.5	206.4	153.0	217.6	455.2	572.1	365.6
85°	38.6	37.3	73.4	84.6	92.0	63.4	65.9	136.8	179.1	154.2
87.5°	5.0	7.5	28.6	22.4	12.4	13.7	13.7	23.6	34.8	37.3
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°
2157.7	0°	2157.7	2157.7	2157.7	2157.7	2157.7	2157.7	2157.7	2157.7	2157.7	2157.7
2160.2	2.5°	2160.2	2158.9	2155.2	2151.5	2142.8	2137.8	2140.3	2137.8	2136.5	2137.8
2176.3	5°	2176.3	2172.6	2162.6	2150.2	2132.8	2111.7	2098.0	2078.1	2059.4	2048.2
2219.9	7.5°	2219.9	2216.1	2202.4	2167.6	2111.7	2023.4	1942.5	1871.6	1818.2	1787.1
2289.5	10°	2289.5	2283.3	2262.1	2185.0	2038.3	1845.5	1685.1	1552.0	1465.0	1423.9
2371.6	12.5°	2371.6	2364.1	2326.8	2168.9	1899.0	1598.0	1376.7	1228.7	1147.9	1111.8
2466.1	15°	2468.6	2458.6	2385.3	2091.8	1696.3	1324.5	1121.7	1011.1	958.8	926.5
2586.7	17.5°	2589.2	2571.8	2428.8	1976.1	1476.2	1115.5	965.0	881.7	835.7	804.6
2744.7	20°	2745.9	2717.3	2463.6	1838.1	1273.5	983.7	859.3	789.7	754.9	727.5
2968.5	22.5°	2964.8	2923.7	2505.9	1688.8	1130.4	892.9	781.0	730.0	701.4	670.3
3280.7	25°	3235.9	3187.4	2558.1	1550.8	1032.2	814.6	723.8	681.5	647.9	611.9
3689.8	27.5°	3615.2	3528.1	2620.3	1437.6	947.6	747.4	671.6	624.3	585.7	555.9
4153.7	30°	4038.0	3895.0	2675.0	1369.2	870.5	685.2	603.2	555.9	519.8	498.7
4570.3	32.5°	4438.5	4244.5	2711.1	1339.4	800.9	614.3	528.5	477.5	450.2	444.0
4978.2	35°	4816.5	4560.3	2707.4	1310.8	738.7	543.5	455.2	402.9	381.8	385.5
5417.2	37.5°	5251.8	4897.4	2681.2	1266.0	687.7	478.8	391.7	345.7	327.1	328.3
5950.7	40°	5757.9	5286.6	2665.1	1181.4	631.8	419.1	339.5	302.2	288.5	283.5
6512.8	42.5°	6297.7	5663.4	2667.6	1085.7	562.1	365.6	303.4	272.4	259.9	256.2
7138.4	45°	6839.9	6022.8	2671.3	986.2	488.7	324.6	277.3	251.2	243.7	238.8
7772.6	47.5°	7349.8	6328.8	2601.6	879.2	416.6	293.5	256.2	238.8	232.6	226.3
8409.3	50°	7824.8	6532.7	2433.8	754.9	359.4	268.6	240.0	227.6	221.4	215.1
8986.4	52.5°	8194.2	6565.0	2156.4	626.8	319.6	250.0	230.1	218.9	211.4	205.2
9452.7	55°	8358.3	6362.3	1762.2	507.4	288.5	233.8	220.1	208.9	200.2	194.0
9819.6	57.5°	8316.1	5935.8	1374.2	407.9	258.7	217.6	207.7	200.2	190.3	180.3
10116.8	60°	8108.4	5365.0	1035.9	339.5	231.3	200.2	194.0	187.8	174.1	159.2
10231.2	62.5°	7749.0	4647.4	738.7	281.1	201.5	180.3	177.8	172.9	153.0	125.6
10062.1	65°	7199.3	3775.6	497.4	233.8	172.9	157.9	159.2	150.5	124.4	93.3
9442.8	67.5°	6395.9	2760.8	318.4	191.5	144.3	131.8	133.1	128.1	105.7	79.6
8268.8	70°	5372.4	1828.1	207.7	145.5	115.7	102.0	109.4	110.7	89.5	64.7
6346.2	72.5°	3938.5	1079.5	145.5	108.2	84.6	70.9	89.5	92.0	72.1	48.5
3817.9	75°	2244.7	512.4	109.4	78.3	52.2	49.7	69.6	69.6	49.7	32.3
1652.8	77.5°	942.7	213.9	77.1	51.0	29.8	28.6	47.3	43.5	24.9	14.9
402.9	80°	272.4	95.8	41.0	24.9	12.4	11.2	18.7	13.7	6.2	2.5
153.0	82.5°	107.0	42.3	16.2	9.9	5.0	5.0	2.5	0.0	0.0	0.0
87.1	85°	63.4	17.4	7.5	3.7	1.2	0.0	0.0	0.0	0.0	0.0
18.7	87.5°	16.2	3.7	2.5	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>
2157.7
2142.8
2050.7
1788.3
1420.2
1108.1
927.7
802.1
722.5
665.3
608.1
549.7
495.0
447.7
385.5
333.3
282.3
254.9
238.8
226.3
215.1
204.0
192.8
179.1
156.7
123.1
90.8
75.9
62.2
46.0
29.8
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