

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: P949320

Luminaire Tested: **GALN-SB4A-835-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13883 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

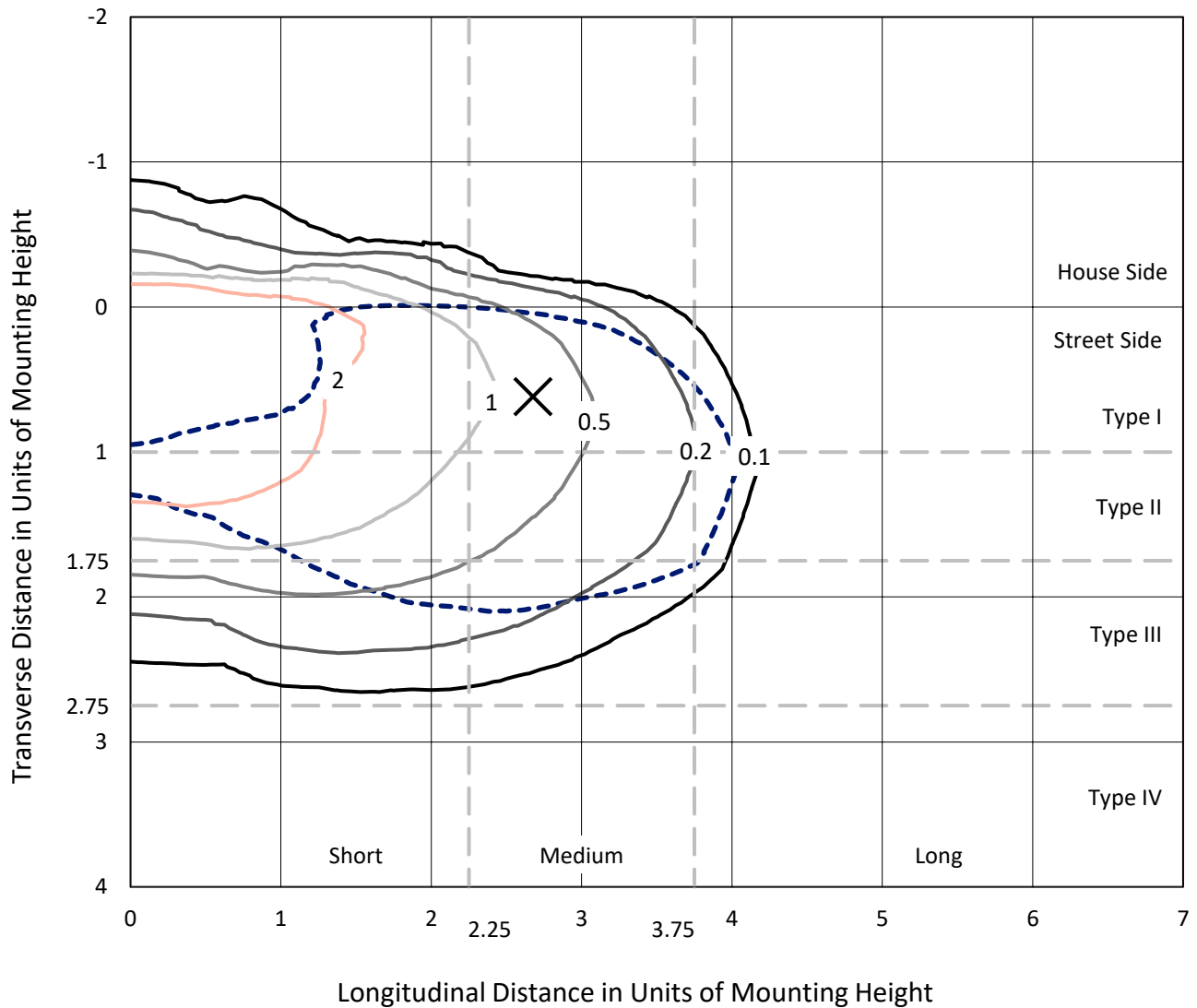
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

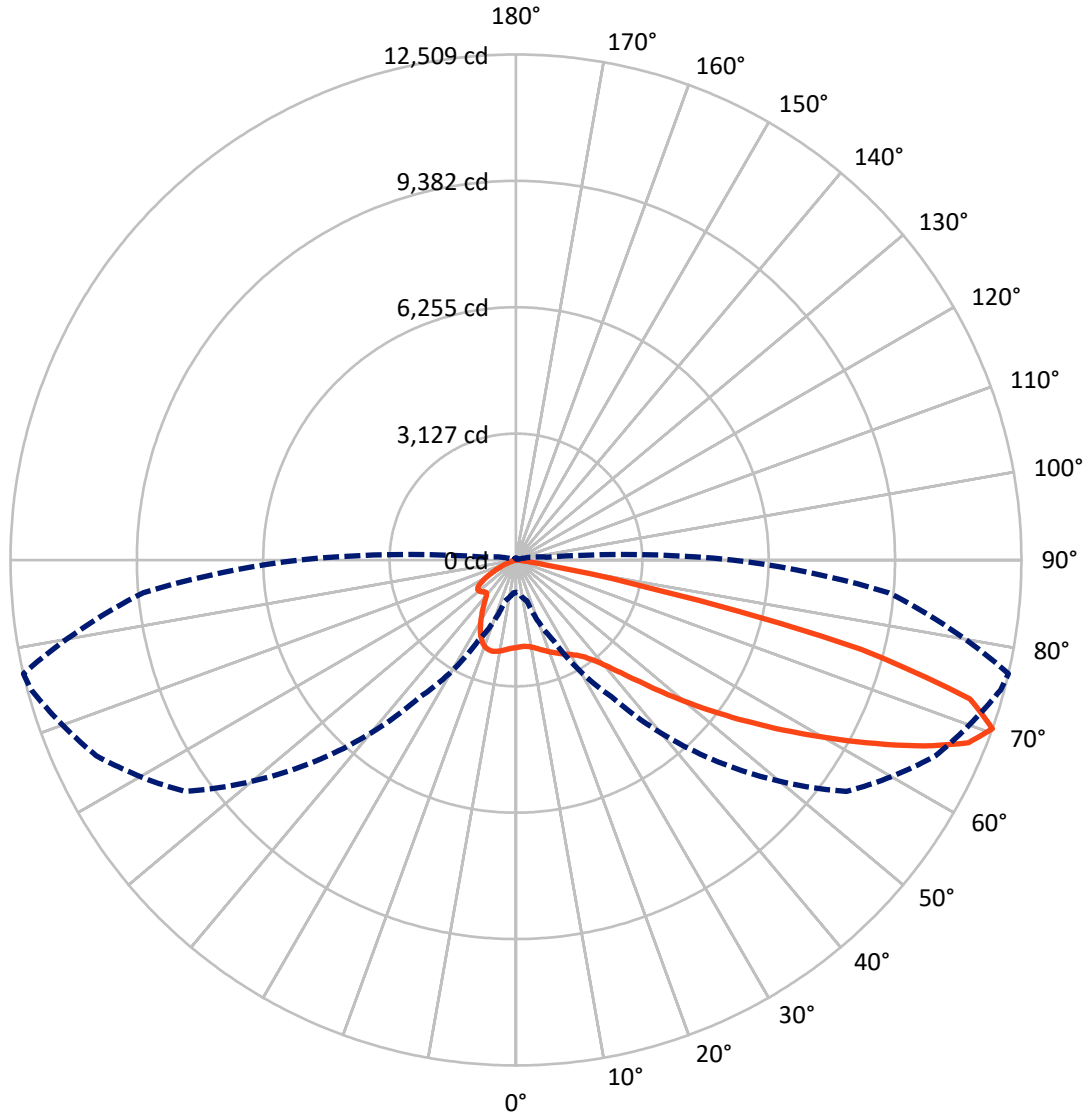
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1463.5	0.0	1463.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	12419.5	0.0	12419.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	13883.0	0.0	13883.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	1.3
10°-20°	443.0	3.2
20°-30°	685.3	4.9
30°-40°	1243.4	9.0
40°-50°	2347.2	16.9
50°-60°	3391.4	24.4
60°-70°	3610.1	26.0
70°-80°	1913.1	13.8
80°-90°	62.8	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°	13883.0	100.0
0°-180°	13883.0	100.0

Coefficient of Utilization



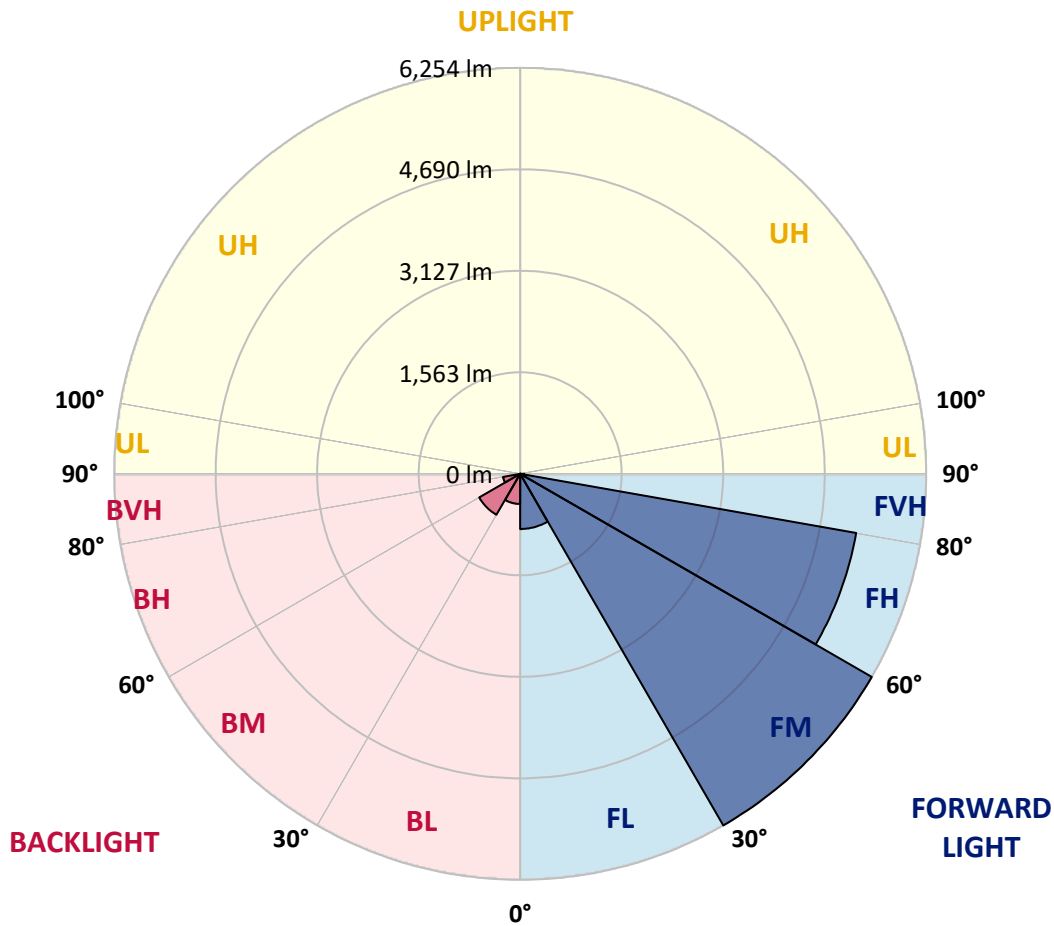
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.0	6.1			
FM (30°-60°)	6253.5	45.0			
FH (60°-80°)	5254.9	37.9			G3/7500
FVH (80°-90°)	61.1	0.4			G1/100
BL (0°-30°)	465.0	3.3	B1/500		
BM (30°-60°)	728.5	5.2	B1/1000		
BH (60°-80°)	268.3	1.9	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2165.5	2165.5	2165.5	2165.5	2165.5	2165.5	2165.5	2165.5	2165.5	2165.5
2.5°	2033.1	2051.5	2048.9	2061.2	2065.6	2083.1	2100.6	2124.3	2150.6	2149.7
5°	1918.3	1936.7	1941.1	1957.7	1978.8	2005.9	2041.9	2089.2	2138.3	2146.2
7.5°	1782.4	1801.7	1813.1	1846.4	1884.9	1941.1	1999.8	2069.1	2150.6	2162.0
10°	1646.5	1664.0	1678.9	1726.3	1787.6	1870.9	1966.5	2066.4	2176.0	2192.7
12.5°	1562.3	1579.0	1595.6	1636.8	1713.1	1814.8	1944.6	2078.7	2218.1	2241.8
15°	1532.5	1547.4	1560.6	1597.4	1668.4	1784.1	1940.2	2104.1	2271.6	2303.1
17.5°	1536.9	1544.8	1553.5	1581.6	1650.9	1770.1	1948.1	2148.0	2334.7	2362.8
20°	1562.3	1566.7	1567.6	1586.9	1648.2	1768.3	1963.9	2190.0	2394.3	2432.0
22.5°	1594.8	1596.5	1594.8	1607.9	1664.9	1781.5	1984.9	2240.9	2461.0	2496.0
25°	1746.4	1713.1	1671.0	1645.6	1692.9	1806.9	2016.5	2309.3	2533.7	2567.9
27.5°	2217.2	2121.7	1970.9	1801.7	1750.8	1843.7	2060.3	2378.5	2607.4	2638.0
30°	2981.7	2856.4	2600.4	2219.0	1936.7	1920.9	2117.3	2447.8	2685.4	2718.7
32.5°	3748.0	3717.3	3421.8	2894.1	2354.9	2092.7	2212.0	2541.6	2788.8	2815.1
35°	4523.0	4460.7	4218.8	3697.1	2999.3	2442.5	2369.8	2664.4	2924.7	2954.5
37.5°	5116.5	5078.8	4928.9	4499.3	3763.8	2982.6	2639.8	2854.6	3122.0	3155.3
40°	5640.8	5623.3	5572.4	5289.2	4618.6	3689.2	3059.8	3149.2	3395.5	3435.0
42.5°	6052.9	6094.1	6123.0	6044.1	5499.7	4495.8	3624.4	3563.0	3776.9	3817.2
45°	6474.6	6488.6	6605.2	6719.2	6374.6	5339.2	4260.9	4047.8	4251.2	4301.2
47.5°	6745.5	6801.6	7006.7	7207.5	7110.2	6175.6	4944.7	4620.3	4800.9	4894.7
50°	6765.6	6871.7	7154.0	7503.8	7645.9	6971.7	5688.2	5272.6	5464.6	5568.0
52.5°	6429.9	6594.7	7032.2	7544.2	7935.2	7645.9	6457.0	5924.9	6171.2	6306.2
55°	4929.8	5145.5	6573.6	7325.0	7946.6	8157.0	7205.8	6604.3	6958.5	7111.1
57.5°	4295.0	4403.8	5168.3	6944.5	7735.3	8363.0	7882.6	7251.3	7815.1	8004.4
60°	3573.5	3716.4	4334.5	6322.0	7448.6	8383.2	8480.5	8086.0	8743.5	8956.6
62.5°	2428.5	2583.7	3198.3	5252.4	7056.7	8373.5	8970.6	8945.2	9775.4	10004.2
65°	1504.5	1601.8	2006.8	4288.9	6508.8	8384.1	9483.5	9988.5	10864.3	11096.6
67.5°	1188.8	1233.5	1444.8	3293.0	5564.5	8147.4	9995.5	10969.5	11889.2	12073.3
70°	798.7	825.9	1051.2	2207.6	4139.9	7055.0	9985.8	11462.2	12417.0	12509.0
72.5°	420.8	441.9	614.6	1022.3	2500.4	5014.8	8417.4	10873.1	11891.8	11753.3
75°	210.4	245.5	413.8	519.0	1067.8	2796.7	5227.0	8572.6	9359.9	8823.3
77.5°	159.6	192.9	341.9	341.9	371.7	941.6	2213.7	4675.5	4312.6	3591.0
80°	101.7	131.5	299.0	258.6	155.2	239.3	576.9	1309.8	916.2	697.0
82.5°	59.6	85.9	249.0	171.0	86.8	88.5	163.1	278.8	237.6	185.0
85°	23.7	56.1	171.0	67.5	34.2	21.9	49.1	59.6	49.1	36.8
87.5°	0.0	13.2	29.8	0.0	2.6	1.8	3.5	4.4	4.4	3.5
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°
2165.5	0°	2165.5	2165.5	2165.5	2165.5	2165.5	2165.5	2165.5	2165.5	2165.5	2165.5
2167.3	2.5°	2175.1	2176.9	2182.2	2183.0	2170.8	2155.0	2148.8	2146.2	2135.7	2134.8
2181.3	5°	2201.4	2209.3	2201.4	2178.6	2124.3	2048.0	1990.2	1942.8	1899.9	1886.7
2229.5	7.5°	2254.0	2261.9	2238.3	2148.8	2012.1	1860.4	1723.6	1627.2	1540.4	1508.0
2288.2	10°	2329.4	2340.0	2265.4	2084.8	1842.9	1599.1	1367.7	1204.6	1077.5	1025.8
2368.0	12.5°	2424.1	2428.5	2280.3	1987.5	1622.8	1274.8	946.9	772.4	659.3	617.2
2464.5	15°	2528.5	2522.3	2282.1	1855.1	1323.0	901.3	618.1	507.6	462.0	448.0
2560.9	17.5°	2638.0	2612.6	2247.0	1664.0	994.2	616.3	458.5	432.2	424.3	420.8
2656.5	20°	2745.9	2688.9	2183.0	1414.1	713.6	460.3	416.4	408.6	404.2	402.4
2752.9	22.5°	2844.1	2746.8	2073.4	1124.0	518.1	406.8	393.6	386.6	378.7	375.2
2846.7	25°	2939.6	2780.1	1919.1	853.0	414.7	380.5	370.0	356.8	346.3	341.9
2947.5	27.5°	3032.6	2801.1	1726.3	631.2	370.0	355.9	336.7	318.2	310.4	308.6
3055.4	30°	3131.6	2808.1	1507.1	470.8	342.8	325.3	297.2	276.2	271.8	272.7
3200.9	32.5°	3252.6	2818.7	1286.1	385.8	320.0	288.4	255.1	233.2	229.7	233.2
3413.1	35°	3397.3	2839.7	1073.1	355.1	299.8	250.7	214.8	196.4	192.9	195.5
3684.9	37.5°	3593.7	2873.9	874.1	348.9	283.2	219.2	180.6	165.7	165.7	166.6
4018.0	40°	3854.9	2965.1	696.1	344.6	274.4	195.5	152.5	146.4	149.0	150.8
4442.3	42.5°	4173.2	3158.8	576.0	339.3	264.8	185.0	138.5	135.9	140.3	142.0
4950.8	45°	4530.0	3404.3	533.9	330.5	256.0	192.0	132.4	128.9	134.1	135.0
5520.7	47.5°	4899.1	3644.5	528.7	320.9	247.2	202.5	130.6	122.7	128.9	129.8
6129.1	50°	5272.6	3801.5	533.9	306.0	233.2	202.5	131.5	116.6	121.9	124.5
6760.4	52.5°	5648.7	3873.3	530.4	273.5	208.7	190.2	131.5	111.3	116.6	118.4
7442.5	55°	6013.4	3859.3	476.9	225.3	177.1	168.3	128.0	107.0	110.5	111.3
8086.9	57.5°	6301.9	3663.8	377.9	175.3	143.8	140.3	116.6	101.7	104.3	103.5
8677.8	60°	6452.7	3234.2	270.0	135.0	113.1	110.5	102.6	94.7	96.4	92.1
9178.4	62.5°	6454.4	2666.1	180.6	107.0	90.3	87.7	87.7	85.0	83.3	74.5
9565.9	65°	6316.8	2035.7	120.1	85.0	72.8	68.4	73.6	72.8	66.6	54.4
9684.2	67.5°	6004.7	1334.4	91.2	66.6	56.1	53.5	58.7	61.4	57.0	45.6
9252.9	70°	5362.9	776.8	75.4	51.7	42.1	39.5	47.3	52.6	47.3	36.8
7908.9	72.5°	4454.6	419.1	61.4	38.6	28.9	26.3	37.7	43.0	37.7	27.2
5074.5	75°	2890.5	224.4	47.3	25.4	14.9	16.7	28.1	31.6	26.3	17.5
1489.5	77.5°	970.5	99.1	29.8	12.3	7.0	7.0	16.7	19.3	12.3	6.1
270.9	80°	216.5	41.2	12.3	5.3	2.6	2.6	3.5	3.5	1.8	0.0
83.3	82.5°	71.0	16.7	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0
21.0	85°	27.2	6.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.0	87.5°	10.5	0.9	0.0	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>
2165.5
2136.6
1878.8
1494.8
1003.8
604.1
448.0
419.9
400.7
374.4
340.2
306.9
272.7
232.3
194.6
165.7
150.8
142.0
135.9
130.6
125.4
118.4
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