

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: P949213

Luminaire Tested: **GALN-SB4A-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949213
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-SB4A-740-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA 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: 14536 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

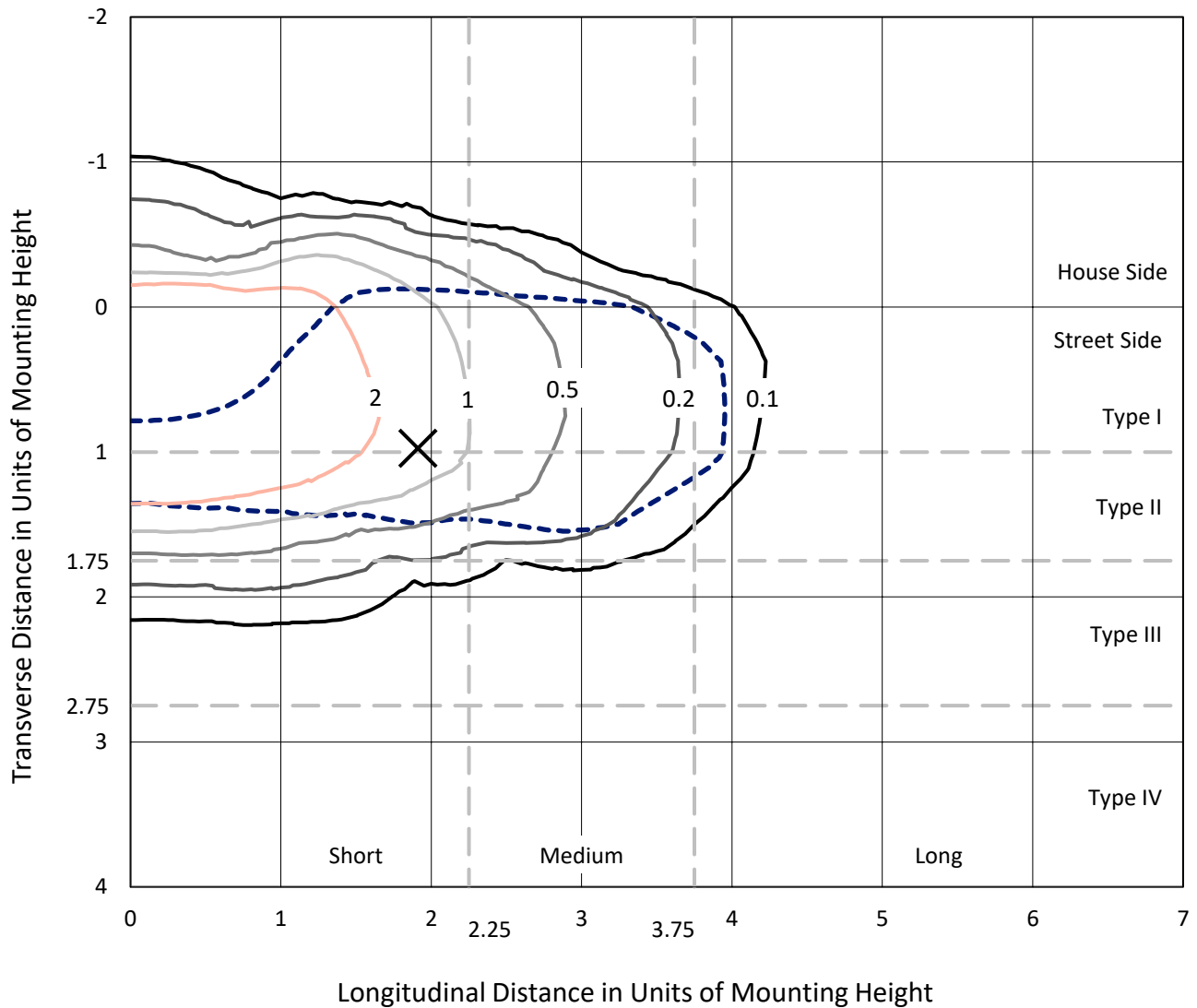
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

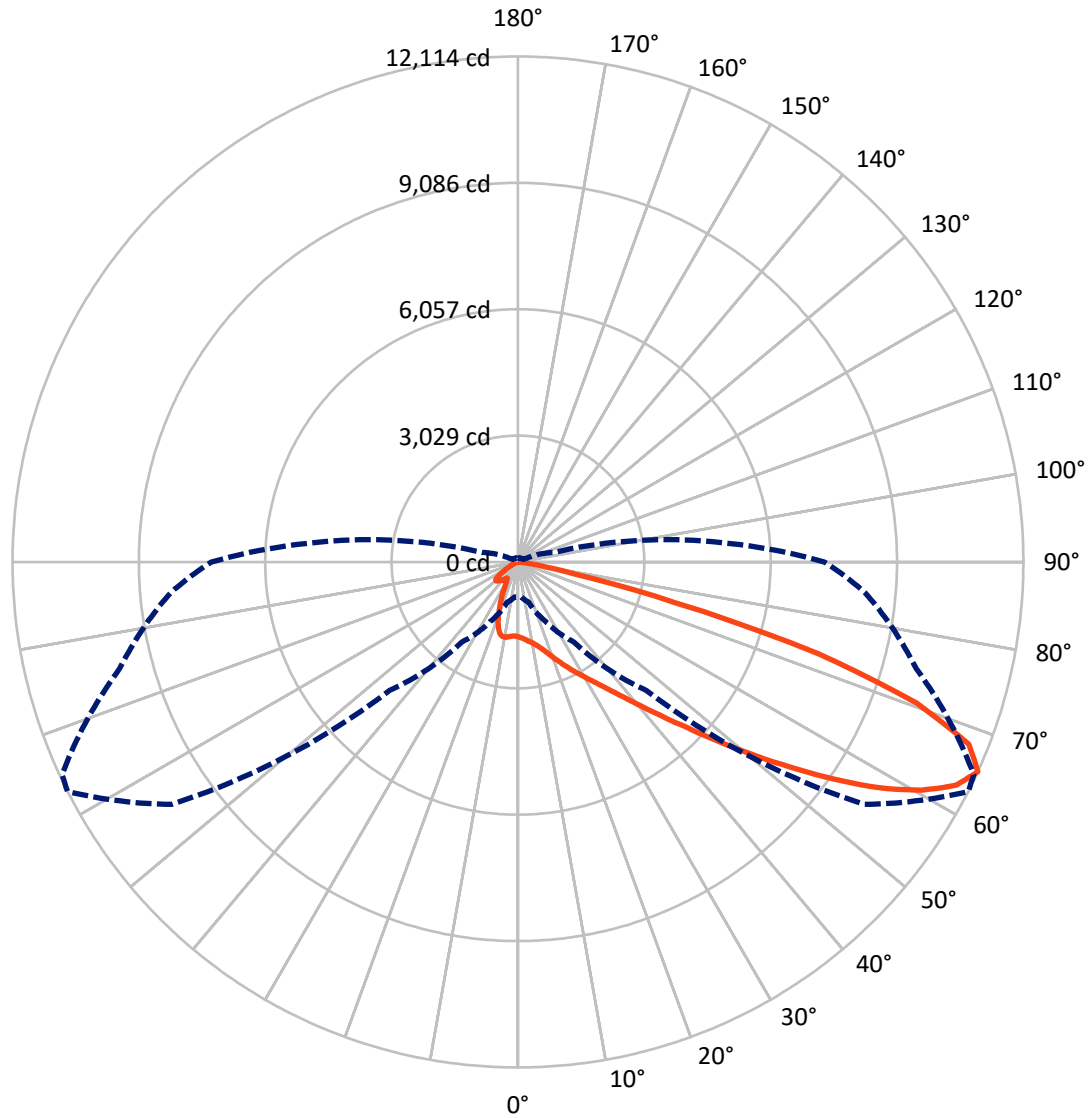
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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
House Side	Lumens	2136.7	0.0	2136.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	12399.3	0.0	12399.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	14536.0	0.0	14536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	1.2
10°-20°	469.0	3.2
20°-30°	816.6	5.6
30°-40°	1471.9	10.1
40°-50°	2919.3	20.1
50°-60°	3976.5	27.4
60°-70°	3174.0	21.8
70°-80°	1436.3	9.9
80°-90°	103.2	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°	14536.0	100.0
0°-180°	14536.0	100.0

Coefficient of Utilization



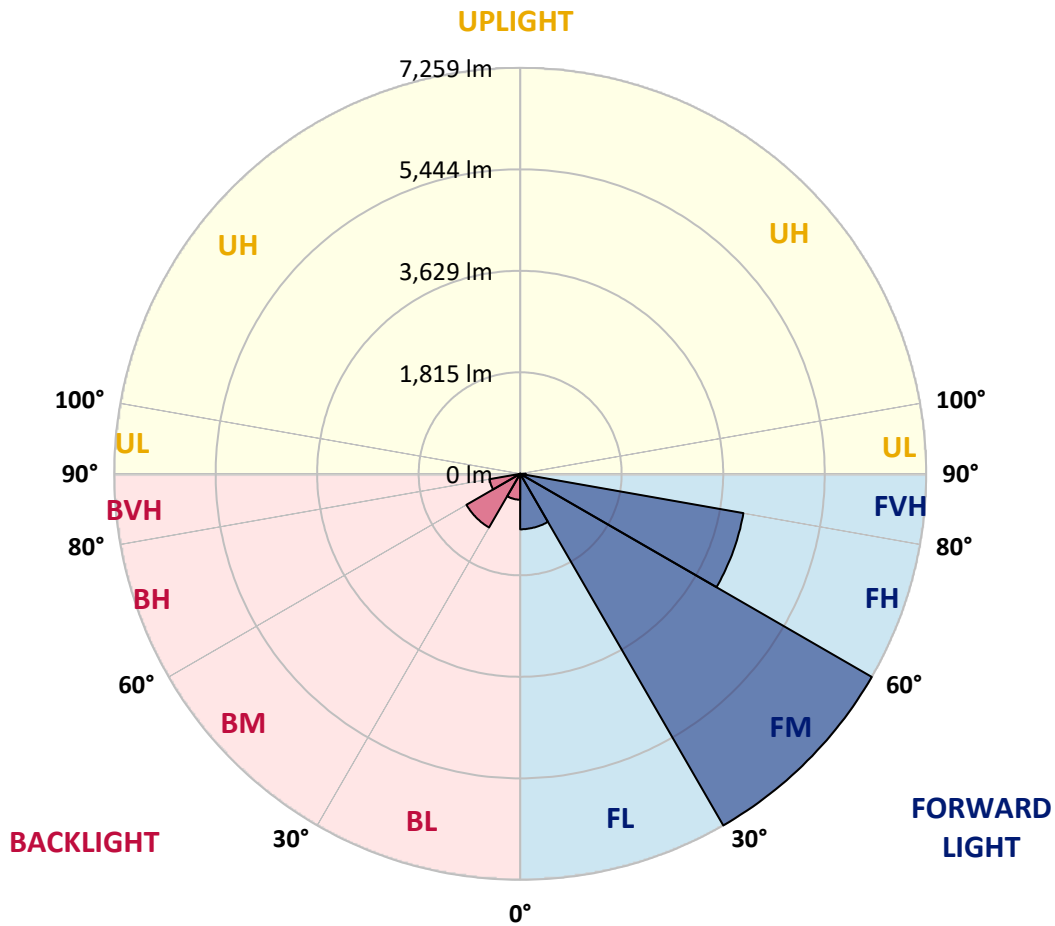
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	992.2	6.8			
FM (30°-60°)	7258.9	49.9			
FH (60°-80°)	4052.6	27.9			G2/5000
FVH (80°-90°)	95.6	0.7			G1/100
BL (0°-30°)	462.4	3.2	B1/500		
BM (30°-60°)	1108.8	7.6	B2/2500		
BH (60°-80°)	557.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	7.7	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°	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0
2.5°	1836.0	1831.0	1838.0	1835.0	1833.0	1829.0	1827.0	1825.0	1821.0	1818.0
5°	1841.0	1838.0	1845.0	1851.0	1857.0	1863.0	1866.0	1870.0	1866.0	1858.0
7.5°	1799.0	1797.0	1812.0	1830.0	1857.0	1880.0	1905.0	1919.0	1920.0	1917.0
10°	1796.0	1791.0	1806.0	1828.0	1863.0	1904.0	1948.0	1978.0	1982.0	1995.0
12.5°	1843.0	1838.0	1859.0	1883.0	1919.0	1962.0	2016.0	2058.0	2064.0	2082.0
15°	1922.0	1915.0	1939.0	1970.0	2016.0	2065.0	2122.0	2160.0	2165.0	2187.0
17.5°	2014.0	2007.0	2035.0	2068.0	2118.0	2185.0	2251.0	2293.0	2299.0	2313.0
20°	2132.0	2123.0	2145.0	2175.0	2228.0	2308.0	2387.0	2447.0	2446.0	2446.0
22.5°	2269.0	2255.0	2274.0	2298.0	2348.0	2445.0	2550.0	2621.0	2621.0	2593.0
25°	2416.0	2402.0	2423.0	2445.0	2489.0	2599.0	2722.0	2810.0	2814.0	2766.0
27.5°	2600.0	2582.0	2598.0	2624.0	2650.0	2762.0	2908.0	3010.0	3012.0	2938.0
30°	2954.0	2903.0	2853.0	2825.0	2837.0	2948.0	3104.0	3217.0	3227.0	3125.0
32.5°	3602.0	3592.0	3416.0	3186.0	3066.0	3148.0	3323.0	3459.0	3465.0	3334.0
35°	4609.0	4597.0	4314.0	3876.0	3485.0	3416.0	3589.0	3750.0	3746.0	3598.0
37.5°	5811.1	5800.1	5427.1	4841.0	4208.0	3821.0	3932.0	4101.0	4126.0	3932.0
40°	6838.1	6797.1	6561.1	5996.1	5168.0	4493.0	4420.0	4532.0	4558.0	4328.0
42.5°	7616.1	7581.1	7461.1	7108.1	6330.1	5487.1	4995.0	5038.0	5067.0	4791.0
45°	8019.1	8011.1	8059.1	8026.1	7514.1	6707.1	5817.1	5638.1	5649.1	5304.1
47.5°	8076.1	8072.1	8291.1	8601.1	8532.1	8083.1	6872.1	6386.1	6347.1	5883.1
50°	7740.1	7732.1	8152.1	8733.1	9212.1	9239.1	8070.1	7229.1	7143.1	6482.1
52.5°	6667.1	6665.1	7355.1	8322.1	9451.1	10251.1	9254.1	8155.1	8011.1	7116.1
55°	5130.0	5167.0	5958.1	7101.1	9015.1	10738.1	10317.1	9183.1	8962.1	7754.1
57.5°	3634.0	3688.0	4470.0	5488.1	7663.1	10450.1	11036.1	10213.1	9975.1	8390.1
60°	1952.0	2000.0	2783.0	3998.0	5701.1	9376.1	11415.1	11107.1	10882.1	8994.1
62.5°	1163.0	1179.0	1503.0	2581.0	3856.0	7163.1	11254.1	11788.1	11603.1	9501.1
65°	835.0	838.0	1001.0	1576.0	2341.0	4352.0	10125.1	12114.1	12057.1	9883.1
67.5°	703.0	701.0	769.0	1047.0	1595.0	2180.0	7760.1	11653.1	11895.1	10125.1
70°	603.0	606.0	686.0	767.0	1199.0	1234.0	3858.0	10146.1	10662.1	10189.1
72.5°	449.0	459.0	533.0	699.0	905.0	849.0	1332.0	7523.1	8456.1	9600.1
75°	317.0	322.0	375.0	588.0	675.0	618.0	680.0	3889.0	5085.0	7360.1
77.5°	244.0	253.0	284.0	411.0	665.0	434.0	416.0	1346.0	2068.0	4446.0
80°	132.0	148.0	205.0	297.0	467.0	307.0	206.0	536.0	701.0	2079.0
82.5°	68.0	76.0	143.0	214.0	266.0	268.0	102.0	223.0	289.0	642.0
85°	27.0	33.0	96.0	118.0	137.0	132.0	46.0	90.0	104.0	178.0
87.5°	6.0	10.0	35.0	27.0	26.0	28.0	11.0	21.0	20.0	21.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1794.0	0°	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0
1806.0	2.5°	1805.0	1801.0	1790.0	1778.0	1764.0	1756.0	1751.0	1750.0	1743.0	1738.0
1846.0	5°	1835.0	1831.0	1810.0	1785.0	1758.0	1737.0	1717.0	1699.0	1673.0	1668.0
1904.0	7.5°	1895.0	1884.0	1850.0	1816.0	1765.0	1704.0	1630.0	1545.0	1469.0	1446.0
1981.0	10°	1969.0	1954.0	1911.0	1851.0	1738.0	1572.0	1393.0	1227.0	1095.0	1058.0
2072.0	12.5°	2053.0	2040.0	1983.0	1872.0	1625.0	1324.0	1050.0	844.0	716.0	684.0
2169.0	15°	2153.0	2134.0	2055.0	1840.0	1423.0	1006.0	721.0	599.0	553.0	547.0
2280.0	17.5°	2259.0	2228.0	2119.0	1725.0	1151.0	715.0	557.0	522.0	502.0	496.0
2392.0	20°	2356.0	2316.0	2157.0	1551.0	860.0	557.0	499.0	476.0	458.0	451.0
2504.0	22.5°	2453.0	2396.0	2157.0	1314.0	645.0	494.0	458.0	437.0	416.0	407.0
2624.0	25°	2554.0	2478.0	2119.0	1050.0	519.0	453.0	419.0	396.0	378.0	367.0
2738.0	27.5°	2652.0	2547.0	2032.0	800.0	462.0	417.0	383.0	361.0	344.0	336.0
2862.0	30°	2745.0	2615.0	1910.0	607.0	425.0	382.0	350.0	331.0	314.0	306.0
3023.0	32.5°	2871.0	2701.0	1780.0	498.0	393.0	349.0	320.0	302.0	287.0	281.0
3232.0	35°	3046.0	2828.0	1668.0	489.0	366.0	322.0	293.0	276.0	261.0	256.0
3502.0	37.5°	3294.0	3033.0	1609.0	549.0	344.0	298.0	271.0	253.0	239.0	235.0
3845.0	40°	3600.0	3311.0	1641.0	609.0	329.0	277.0	251.0	233.0	221.0	216.0
4239.0	42.5°	3963.0	3654.0	1818.0	655.0	319.0	259.0	232.0	212.0	204.0	202.0
4686.0	45°	4380.0	4031.0	2089.0	704.0	303.0	242.0	213.0	198.0	192.0	191.0
5172.0	47.5°	4854.0	4445.0	2403.0	765.0	287.0	226.0	198.0	188.0	183.0	181.0
5679.1	50°	5324.1	4862.0	2726.0	799.0	274.0	211.0	186.0	178.0	174.0	173.0
6215.1	52.5°	5816.1	5291.1	2987.0	767.0	263.0	199.0	176.0	170.0	166.0	165.0
6709.1	55°	6285.1	5638.1	3032.0	651.0	241.0	187.0	165.0	162.0	157.0	157.0
7210.1	57.5°	6689.1	5812.1	2714.0	478.0	219.0	169.0	154.0	151.0	147.0	146.0
7662.1	60°	7060.1	5762.1	2095.0	322.0	195.0	151.0	140.0	138.0	134.0	129.0
8055.1	62.5°	7269.1	5542.1	1433.0	210.0	171.0	132.0	124.0	123.0	114.0	104.0
8346.1	65°	7348.1	5090.0	894.0	153.0	143.0	113.0	107.0	105.0	92.0	81.0
8511.1	67.5°	7279.1	4346.0	451.0	121.0	113.0	94.0	88.0	88.0	79.0	69.0
8501.1	70°	7003.1	3258.0	190.0	97.0	87.0	72.0	72.0	76.0	67.0	56.0
8060.1	72.5°	6404.1	2192.0	101.0	74.0	65.0	51.0	59.0	62.0	53.0	42.0
6597.1	75°	5091.0	1337.0	70.0	55.0	41.0	36.0	45.0	47.0	36.0	28.0
4523.0	77.5°	3482.0	768.0	47.0	35.0	26.0	21.0	31.0	29.0	19.0	13.0
1744.0	80°	1529.0	320.0	27.0	16.0	10.0	8.0	11.0	8.0	6.0	4.0
239.0	82.5°	179.0	75.0	10.0	6.0	4.0	2.0	1.0	0.0	0.0	0.0
73.0	85°	37.0	9.0	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
13.0	87.5°	7.0	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>
1794.0
1743.0
1666.0
1435.0
1044.0
675.0
541.0
493.0
447.0
402.0
363.0
336.0
307.0
281.0
256.0
234.0
215.0
202.0
190.0
181.0
173.0
165.0
156.0
145.0
128.0
102.0
80.0
68.0
55.0
42.0
27.0
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4.0
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