

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: P948121

Luminaire Tested: **GALN-SB3B-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948121
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-SB3B-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 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: 12912 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

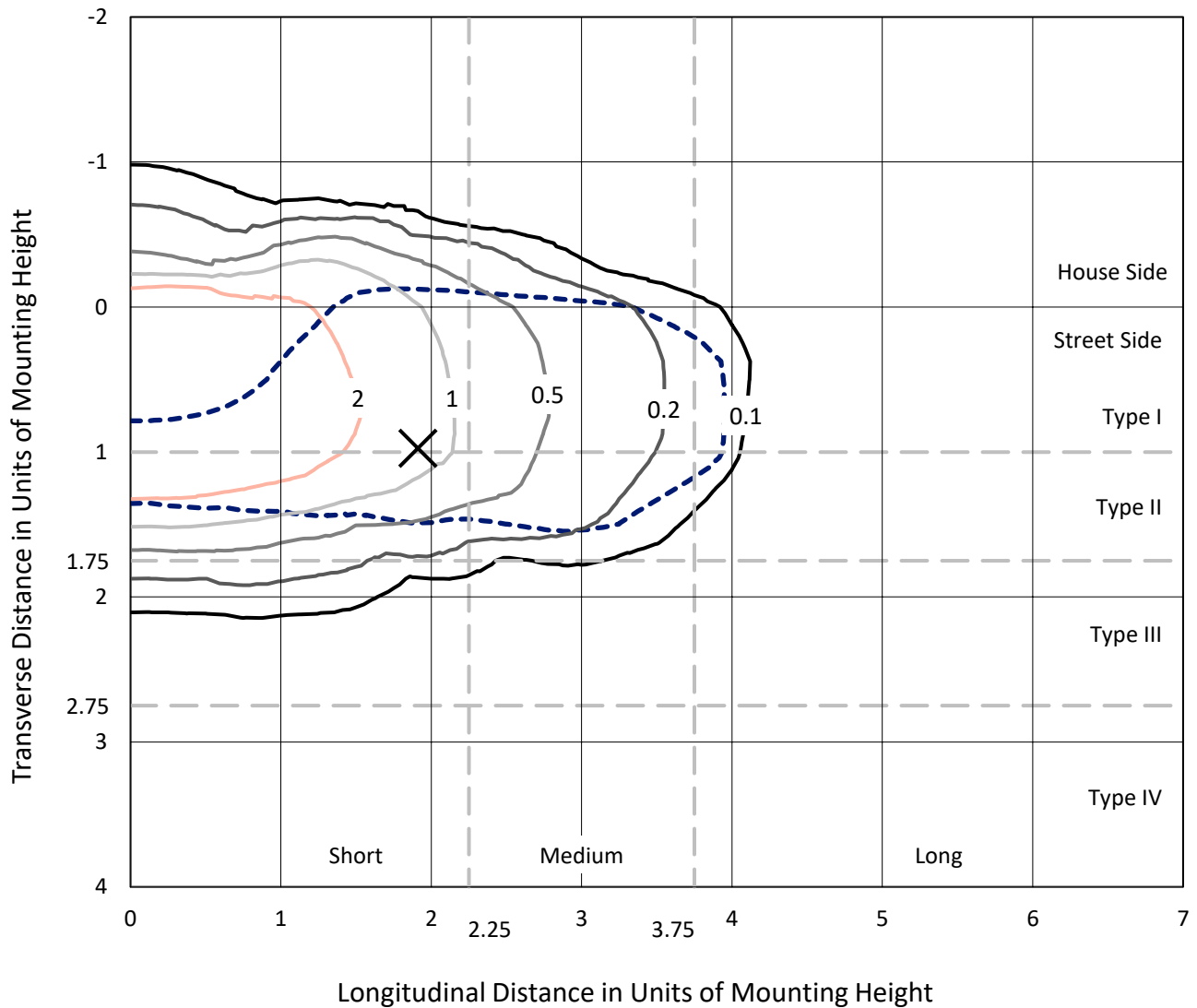
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

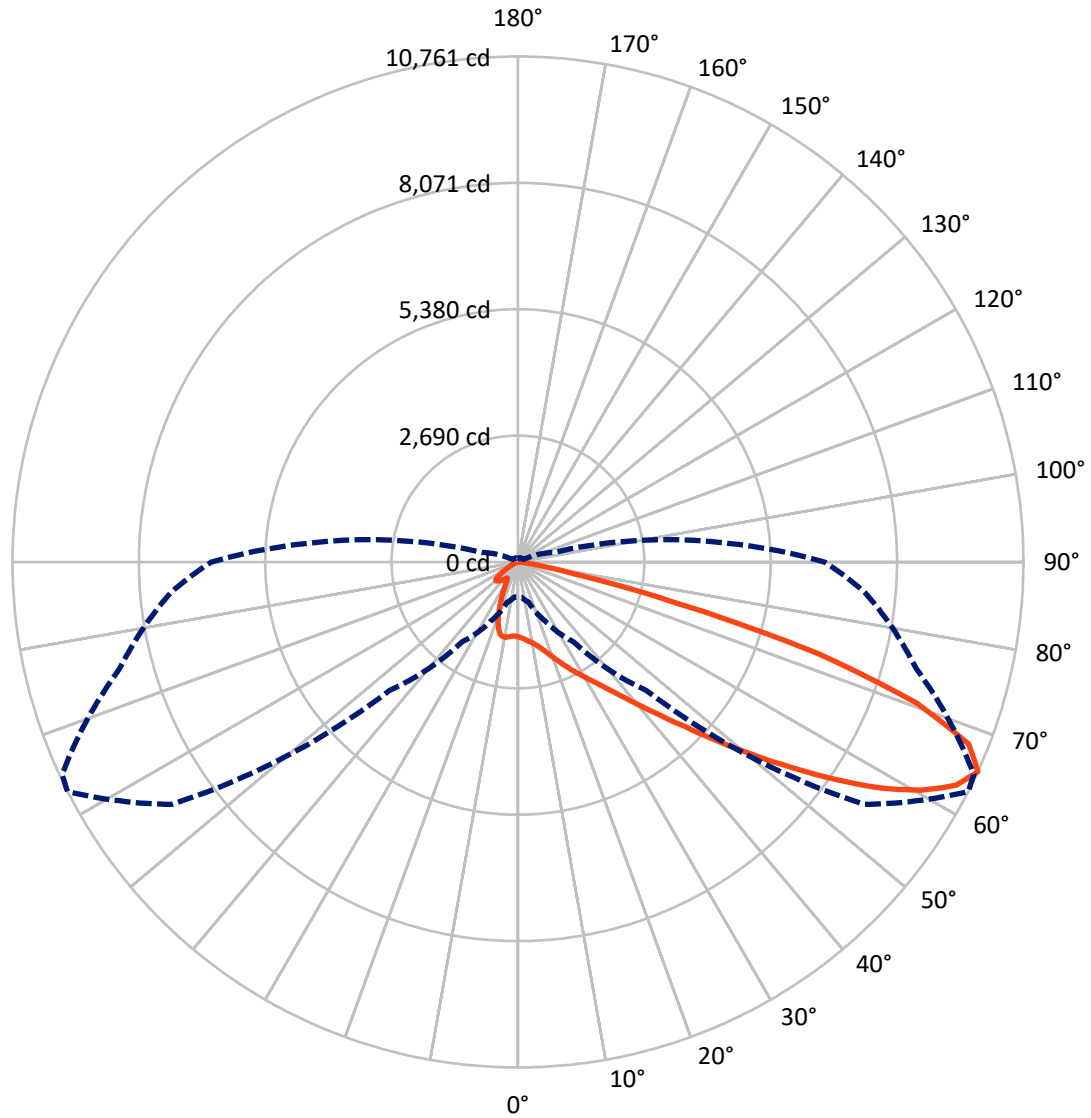
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	1898.0	0.0	1898.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	11014.0	0.0	11014.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	12912.0	0.0	12912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	1.2
10°-20°	416.6	3.2
20°-30°	725.4	5.6
30°-40°	1307.5	10.1
40°-50°	2593.1	20.1
50°-60°	3532.3	27.4
60°-70°	2819.4	21.8
70°-80°	1275.9	9.9
80°-90°	91.7	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°	12912.0	100.0
0°-180°	12912.0	100.0

Coefficient of Utilization



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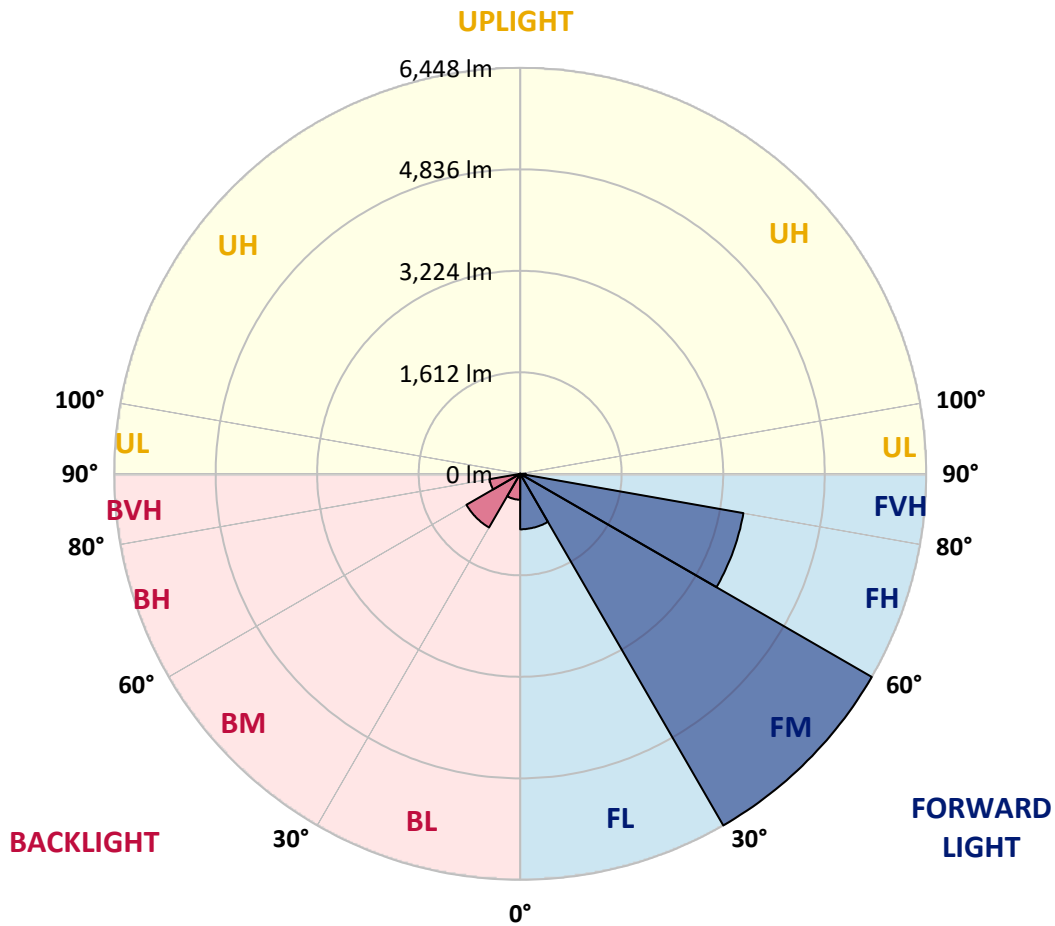
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.4	6.8			
FM (30°-60°)	6447.9	49.9			
FH (60°-80°)	3599.8	27.9			G2/5000
FVH (80°-90°)	84.9	0.7			G1/100
BL (0°-30°)	410.7	3.2	B1/500		
BM (30°-60°)	984.9	7.6	B1/1000		
BH (60°-80°)	495.5	3.8	B1/500		G1/500
BVH (80°-90°)	6.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6
2.5°	1630.9	1626.5	1632.7	1630.0	1628.2	1624.7	1622.9	1621.1	1617.6	1614.9
5°	1635.3	1632.7	1638.9	1644.2	1649.5	1654.9	1657.5	1661.1	1657.5	1650.4
7.5°	1598.0	1596.2	1609.6	1625.6	1649.5	1670.0	1692.2	1704.6	1705.5	1702.8
10°	1595.4	1590.9	1604.2	1623.8	1654.9	1691.3	1730.4	1757.0	1760.6	1772.1
12.5°	1637.1	1632.7	1651.3	1672.6	1704.6	1742.8	1790.8	1828.1	1833.4	1849.4
15°	1707.3	1701.1	1722.4	1749.9	1790.8	1834.3	1884.9	1918.7	1923.1	1942.7
17.5°	1789.0	1782.8	1807.7	1837.0	1881.4	1940.9	1999.5	2036.8	2042.2	2054.6
20°	1893.8	1885.8	1905.4	1932.0	1979.1	2050.2	2120.3	2173.6	2172.7	2172.7
22.5°	2015.5	2003.1	2020.0	2041.3	2085.7	2171.9	2265.1	2328.2	2328.2	2303.3
25°	2146.1	2133.7	2152.3	2171.9	2210.9	2308.7	2417.9	2496.1	2499.6	2457.0
27.5°	2309.5	2293.6	2307.8	2330.9	2354.0	2453.4	2583.1	2673.7	2675.5	2609.8
30°	2624.0	2578.7	2534.3	2509.4	2520.1	2618.7	2757.2	2857.6	2866.5	2775.9
32.5°	3199.6	3190.7	3034.4	2830.1	2723.5	2796.3	2951.8	3072.6	3077.9	2961.5
35°	4094.1	4083.4	3832.1	3443.0	3095.7	3034.4	3188.1	3331.1	3327.5	3196.1
37.5°	5161.8	5152.1	4820.7	4300.2	3737.9	3394.1	3492.7	3642.9	3665.1	3492.7
40°	6074.1	6037.7	5828.0	5326.2	4590.7	3991.1	3926.2	4025.7	4048.8	3844.5
42.5°	6765.2	6734.1	6627.5	6313.9	5622.8	4874.0	4437.0	4475.2	4500.9	4255.8
45°	7123.2	7116.1	7158.7	7129.4	6674.6	5957.7	5167.2	5008.2	5017.9	4711.5
47.5°	7173.8	7170.2	7364.8	7640.1	7578.9	7180.0	6104.3	5672.6	5638.0	5225.8
50°	6875.3	6868.2	7241.3	7757.4	8182.9	8206.9	7168.5	6421.4	6345.0	5757.9
52.5°	5922.2	5920.4	6533.3	7392.3	8395.2	9105.8	8220.2	7244.0	7116.1	6321.0
55°	4556.9	4589.8	5292.4	6307.7	8007.9	9538.4	9164.4	8157.1	7960.8	6887.8
57.5°	3228.0	3276.0	3970.6	4874.9	6806.9	9282.6	9803.1	9072.1	8860.7	7452.7
60°	1733.9	1776.6	2472.1	3551.4	5064.1	8328.6	10139.8	9866.2	9666.3	7989.2
62.5°	1033.1	1047.3	1335.1	2292.7	3425.2	6362.8	9996.8	10471.1	10306.8	8439.6
65°	741.7	744.4	889.2	1399.9	2079.5	3865.8	8993.9	10760.7	10710.1	8778.9
67.5°	624.5	622.7	683.1	930.0	1416.8	1936.5	6893.1	10351.2	10566.2	8993.9
70°	535.6	538.3	609.4	681.3	1065.1	1096.1	3427.0	9012.5	9470.9	9050.7
72.5°	398.8	407.7	473.5	620.9	803.9	754.2	1183.2	6682.6	7511.3	8527.5
75°	281.6	286.0	333.1	522.3	599.6	549.0	604.0	3454.5	4516.9	6537.8
77.5°	216.7	224.7	252.3	365.1	590.7	385.5	369.5	1195.6	1837.0	3949.3
80°	117.3	131.5	182.1	263.8	414.8	272.7	183.0	476.1	622.7	1846.7
82.5°	60.4	67.5	127.0	190.1	236.3	238.1	90.6	198.1	256.7	570.3
85°	24.0	29.3	85.3	104.8	121.7	117.3	40.9	79.9	92.4	158.1
87.5°	5.3	8.9	31.1	24.0	23.1	24.9	9.8	18.7	17.8	18.7
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°
1593.6	0°	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6
1604.2	2.5°	1603.4	1599.8	1590.0	1579.4	1566.9	1559.8	1555.4	1554.5	1548.3	1543.8
1639.8	5°	1630.0	1626.5	1607.8	1585.6	1561.6	1543.0	1525.2	1509.2	1486.1	1481.7
1691.3	7.5°	1683.3	1673.5	1643.3	1613.1	1567.8	1513.6	1447.9	1372.4	1304.9	1284.5
1759.7	10°	1749.0	1735.7	1697.5	1644.2	1543.8	1396.4	1237.4	1089.9	972.7	939.8
1840.5	12.5°	1823.7	1812.1	1761.5	1662.9	1443.5	1176.1	932.7	749.7	636.0	607.6
1926.7	15°	1912.5	1895.6	1825.4	1634.4	1264.0	893.6	640.5	532.1	491.2	485.9
2025.3	17.5°	2006.6	1979.1	1882.3	1532.3	1022.4	635.1	494.8	463.7	445.9	440.6
2124.8	20°	2092.8	2057.3	1916.0	1377.7	763.9	494.8	443.3	422.8	406.8	400.6
2224.3	22.5°	2179.0	2128.3	1916.0	1167.2	572.9	438.8	406.8	388.2	369.5	361.5
2330.9	25°	2268.7	2201.2	1882.3	932.7	461.0	402.4	372.2	351.8	335.8	326.0
2432.1	27.5°	2355.7	2262.5	1805.0	710.6	410.4	370.4	340.2	320.7	305.6	298.5
2542.3	30°	2438.3	2322.9	1696.6	539.2	377.5	339.3	310.9	294.0	278.9	271.8
2685.3	32.5°	2550.3	2399.3	1581.1	442.4	349.1	310.0	284.3	268.3	254.9	249.6
2870.9	35°	2705.7	2512.1	1481.7	434.4	325.1	286.0	260.3	245.2	231.8	227.4
3110.8	37.5°	2926.0	2694.2	1429.3	487.7	305.6	264.7	240.7	224.7	212.3	208.7
3415.5	40°	3197.8	2941.1	1457.7	541.0	292.2	246.1	223.0	207.0	196.3	191.9
3765.4	42.5°	3520.3	3245.8	1614.9	581.8	283.4	230.1	206.1	188.3	181.2	179.4
4162.5	45°	3890.7	3580.7	1855.6	625.4	269.2	215.0	189.2	175.9	170.6	169.7
4594.2	47.5°	4311.7	3948.4	2134.6	679.5	254.9	200.8	175.9	167.0	162.6	160.8
5044.6	50°	4729.2	4318.8	2421.5	709.7	243.4	187.4	165.2	158.1	154.6	153.7
5520.7	52.5°	5166.3	4699.9	2653.3	681.3	233.6	176.8	156.3	151.0	147.5	146.6
5959.5	55°	5582.9	5008.2	2693.3	578.3	214.1	166.1	146.6	143.9	139.5	139.5
6404.5	57.5°	5941.7	5162.7	2410.8	424.6	194.5	150.1	136.8	134.1	130.6	129.7
6806.0	60°	6271.3	5118.3	1861.0	286.0	173.2	134.1	124.4	122.6	119.0	114.6
7155.1	62.5°	6456.9	4922.9	1272.9	186.5	151.9	117.3	110.1	109.3	101.3	92.4
7413.6	65°	6527.1	4521.4	794.1	135.9	127.0	100.4	95.0	93.3	81.7	72.0
7560.2	67.5°	6465.8	3860.5	400.6	107.5	100.4	83.5	78.2	78.2	70.2	61.3
7551.3	70°	6220.7	2894.0	168.8	86.2	77.3	64.0	64.0	67.5	59.5	49.7
7159.6	72.5°	5688.6	1947.1	89.7	65.7	57.7	45.3	52.4	55.1	47.1	37.3
5860.0	75°	4522.3	1187.6	62.2	48.9	36.4	32.0	40.0	41.7	32.0	24.9
4017.7	77.5°	3093.0	682.2	41.7	31.1	23.1	18.7	27.5	25.8	16.9	11.5
1549.2	80°	1358.2	284.3	24.0	14.2	8.9	7.1	9.8	7.1	5.3	3.6
212.3	82.5°	159.0	66.6	8.9	5.3	3.6	1.8	0.9	0.0	0.0	0.0
64.8	85°	32.9	8.0	4.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0
11.5	87.5°	6.2	1.8	0.9	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>
1593.6
1548.3
1479.9
1274.7
927.4
599.6
480.6
437.9
397.1
357.1
322.4
298.5
272.7
249.6
227.4
207.9
191.0
179.4
168.8
160.8
153.7
146.6
138.6
128.8
113.7
90.6
71.1
60.4
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37.3
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