

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: P945633

Luminaire Tested: **GALN-SB1C-740-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6424 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

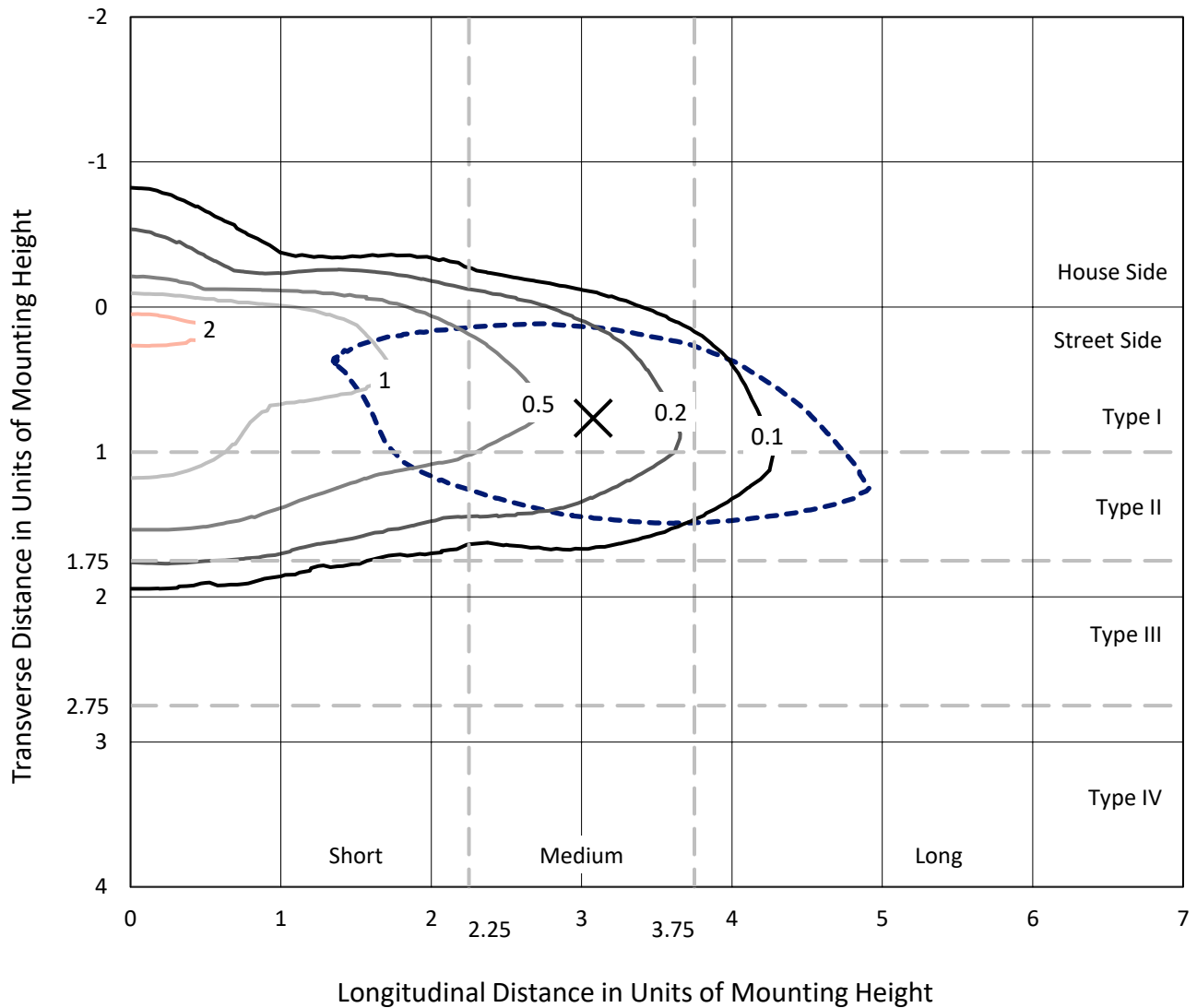
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SB1C-740-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

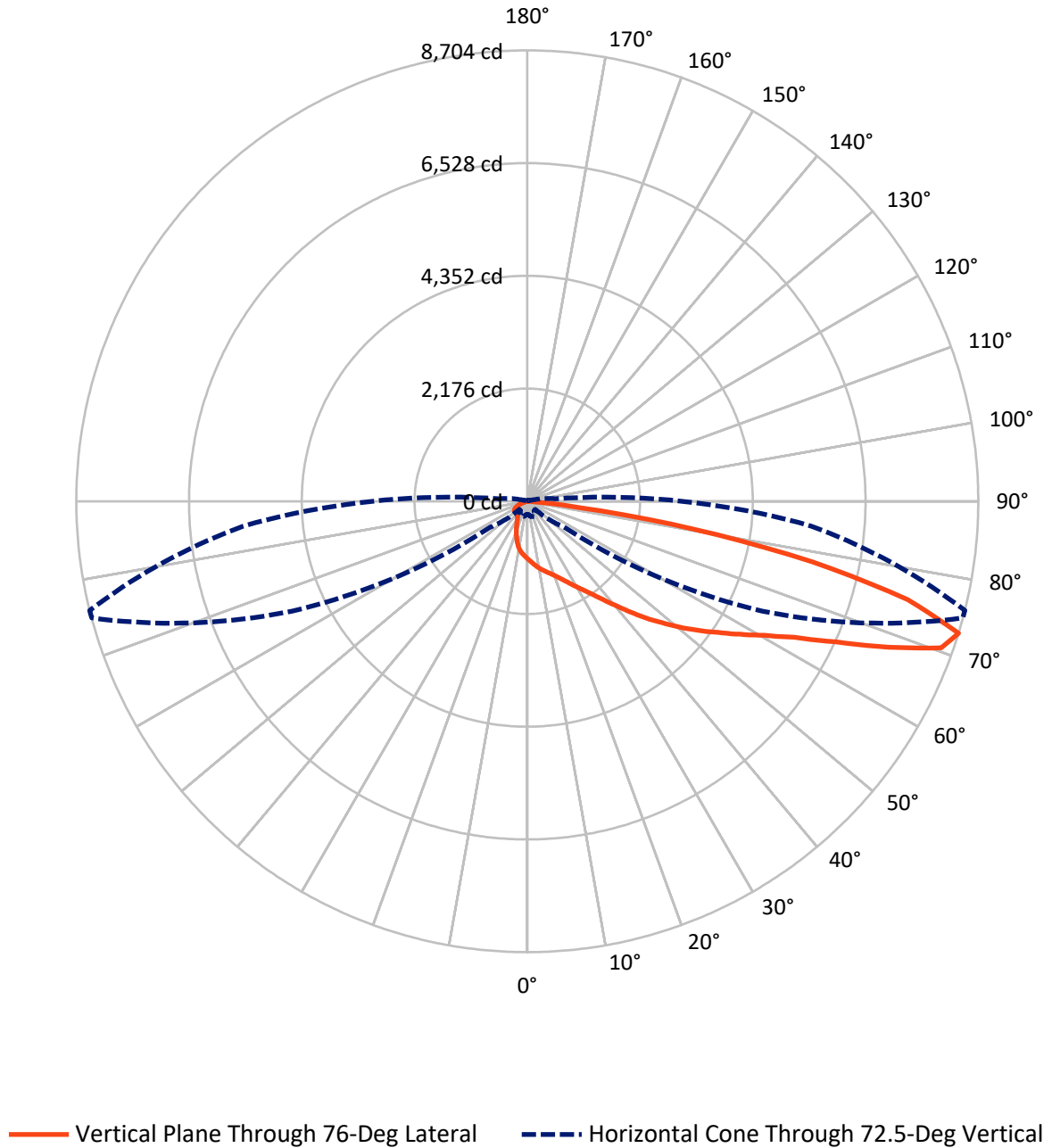
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P945633
CATALOG NUMBER: GALN-SB1C-740-U-SL2-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	657.5	0.0	657.5
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	5766.5	0.0	5766.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	6424.0	0.0	6424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	1.6
10°-20°	270.7	4.2
20°-30°	428.5	6.7
30°-40°	662.9	10.3
40°-50°	1006.9	15.7
50°-60°	1388.1	21.6
60°-70°	1466.4	22.8
70°-80°	1006.0	15.7
80°-90°	93.6	1.5
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°	6424.0	100.0
0°-180°	6424.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945633

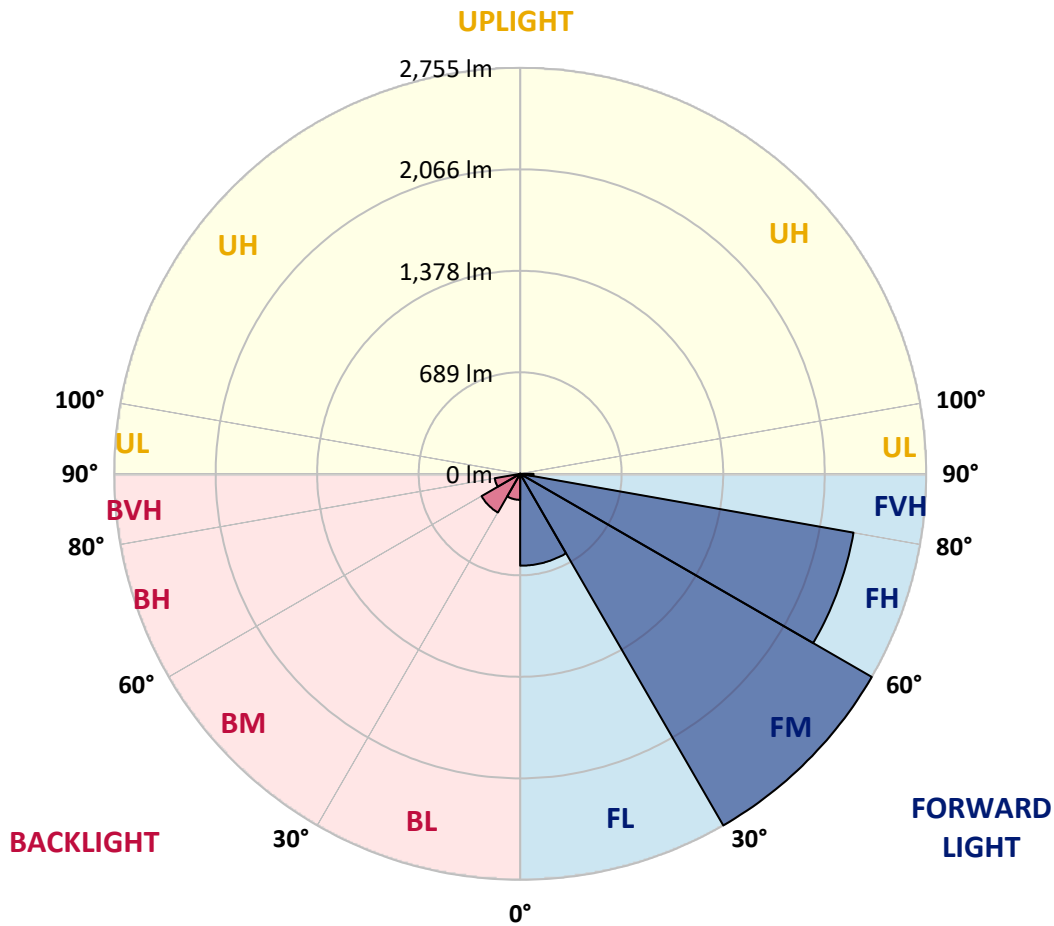
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.4	9.7			
FM (30°-60°)	2755.1	42.9			
FH (60°-80°)	2296.9	35.8			G2/5000
FVH (80°-90°)	91.1	1.4			G1/100
BL (0°-30°)	176.7	2.8	B1/500		
BM (30°-60°)	302.7	4.7	B1/1000		
BH (60°-80°)	175.5	2.7	B1/500		G1/500
BVH (80°-90°)	2.5	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-G2

Type II Medium



REPORT NUMBER: P945633
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1
2.5°	1290.6	1273.5	1276.8	1259.7	1251.8	1232.6	1212.6	1186.4	1157.2	1157.2
5°	1426.4	1415.6	1415.6	1395.6	1380.2	1350.1	1314.3	1268.1	1213.1	1207.6
7.5°	1509.8	1503.1	1507.3	1495.6	1483.1	1451.8	1409.3	1348.9	1271.0	1264.3
10°	1526.0	1525.6	1537.3	1540.6	1548.9	1533.1	1495.2	1425.6	1328.1	1318.5
12.5°	1463.1	1455.2	1483.9	1517.7	1565.2	1586.4	1566.8	1495.6	1380.2	1366.8
15°	1359.7	1361.4	1388.9	1441.0	1520.2	1596.0	1621.4	1563.9	1433.1	1417.2
17.5°	1300.6	1294.3	1318.1	1364.7	1452.2	1559.3	1646.8	1627.7	1489.3	1471.4
20°	1293.5	1293.1	1298.5	1319.7	1386.4	1506.8	1643.9	1689.8	1555.6	1534.8
22.5°	1342.6	1341.8	1337.2	1333.1	1351.4	1455.6	1631.4	1748.9	1634.8	1612.3
25°	1418.1	1416.8	1409.7	1384.3	1366.4	1428.1	1619.8	1804.0	1728.5	1703.5
27.5°	1510.2	1509.3	1496.4	1458.1	1411.8	1430.6	1613.9	1860.6	1836.9	1812.3
30°	1623.1	1621.4	1594.8	1540.6	1480.2	1470.2	1621.8	1924.4	1949.8	1931.0
32.5°	1764.8	1760.2	1725.2	1643.5	1558.9	1523.1	1636.8	1989.8	2083.6	2066.1
35°	1874.4	1867.3	1846.9	1774.8	1650.2	1588.1	1671.9	2067.3	2244.4	2229.0
37.5°	1968.6	1961.5	1944.8	1885.6	1781.0	1671.0	1728.1	2170.7	2434.4	2426.9
40°	2070.2	2058.6	2050.6	1987.3	1892.7	1790.6	1808.5	2291.5	2653.2	2654.0
42.5°	2148.6	2144.0	2144.8	2096.1	2000.6	1932.3	1915.2	2427.8	2915.3	2923.2
45°	2215.7	2211.9	2227.3	2193.2	2109.4	2025.2	2040.2	2582.0	3202.0	3218.3
47.5°	2267.3	2271.5	2293.6	2271.5	2222.3	2090.6	2151.1	2748.2	3503.3	3505.4
50°	2319.0	2320.7	2357.3	2346.5	2326.5	2173.6	2253.2	2934.1	3820.8	3824.6
52.5°	2335.3	2332.8	2391.1	2417.8	2418.6	2276.1	2385.3	3136.6	4132.1	4144.2
55°	2251.9	2259.0	2353.2	2461.5	2504.4	2417.8	2563.6	3392.9	4463.8	4468.8
57.5°	1844.4	1883.5	2091.9	2343.2	2559.9	2620.7	2819.9	3692.5	4846.8	4842.2
60°	1119.3	1166.0	1415.2	1965.2	2379.0	2824.5	3197.4	4156.7	5265.2	5252.2
62.5°	625.9	640.1	719.7	1176.4	1809.4	2694.9	3566.2	4753.0	5826.9	5783.1
65°	461.3	465.9	484.6	576.3	889.3	2072.7	3485.4	5466.0	6616.2	6538.2
67.5°	400.9	405.5	423.8	436.3	397.1	1088.9	2871.6	5861.5	7618.3	7516.3
70°	337.5	340.0	369.6	378.0	284.2	414.2	1844.8	5739.4	8545.9	8473.0
72.5°	251.7	261.7	304.6	324.6	227.9	220.0	868.4	5018.1	8703.0	8703.9
75°	170.9	180.0	229.2	267.1	175.9	154.2	350.5	3747.1	7578.3	7578.3
77.5°	116.7	124.2	159.6	209.6	133.3	105.8	181.7	2378.2	5436.9	5628.1
80°	51.7	56.3	102.9	152.1	101.3	68.3	102.9	1302.2	3287.9	3247.4
82.5°	25.4	29.2	65.8	95.0	65.4	42.1	54.2	619.2	1065.5	1012.6
85°	5.0	6.7	35.4	40.4	30.4	18.8	20.4	190.4	128.3	146.7
87.5°	0.0	0.0	10.8	7.5	3.3	4.2	4.2	17.1	10.0	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945633
 CATALOG NUMBER: GALN-SB1C-740-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1110.1	0°	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1
1128.9	2.5°	1113.9	1098.5	1064.7	1031.4	997.2	965.9	944.3	922.6	909.3	903.4
1153.9	5°	1122.6	1091.4	1020.5	946.4	873.0	801.3	747.6	697.2	681.3	655.1
1183.5	7.5°	1136.4	1085.5	973.9	848.8	729.7	624.7	548.8	488.4	464.2	440.9
1208.9	10°	1145.5	1074.7	912.2	745.1	583.8	465.9	393.4	349.6	333.8	319.6
1232.6	12.5°	1149.3	1054.7	841.3	628.8	454.2	355.0	311.7	291.3	285.9	280.9
1255.1	15°	1152.6	1035.1	762.2	516.7	358.8	297.1	280.0	273.4	269.6	266.3
1278.1	17.5°	1155.5	1010.1	671.7	420.0	303.0	273.8	265.4	258.4	255.4	251.7
1311.0	20°	1165.5	985.9	590.9	346.7	272.5	257.1	247.9	240.4	237.9	235.4
1357.7	22.5°	1184.3	966.4	512.6	297.1	254.2	240.0	228.4	220.0	218.4	216.7
1414.3	25°	1206.8	942.2	438.8	265.0	236.3	220.4	207.5	200.4	198.8	199.2
1479.7	27.5°	1235.6	915.5	375.5	244.6	220.4	202.1	187.5	182.1	182.9	184.6
1555.2	30°	1267.2	890.9	325.9	230.4	206.3	185.9	171.3	167.5	170.4	172.9
1656.0	32.5°	1314.3	869.3	291.3	219.2	193.8	172.5	160.9	156.3	159.6	162.9
1784.8	35°	1378.5	858.4	271.7	209.6	182.9	162.1	150.4	147.1	150.4	151.3
1941.9	37.5°	1457.2	857.6	263.4	201.7	172.9	153.4	140.4	139.2	141.7	142.1
2130.7	40°	1558.9	863.0	257.1	195.9	162.5	143.3	131.3	130.0	130.8	133.8
2357.8	42.5°	1687.7	885.5	248.4	188.4	151.3	133.3	123.8	120.8	120.4	123.8
2612.0	45°	1849.4	935.1	236.7	176.3	141.3	125.0	115.4	112.1	110.8	111.7
2874.5	47.5°	2025.6	995.9	225.0	165.0	134.2	118.3	108.8	104.6	102.5	102.5
3119.9	50°	2196.5	1064.7	217.1	153.4	129.2	112.1	101.7	97.5	94.2	93.3
3372.5	52.5°	2365.7	1132.2	210.9	141.7	123.3	104.2	95.0	90.4	86.7	85.0
3622.5	55°	2519.9	1196.4	200.0	130.4	115.8	95.8	88.3	83.8	79.2	76.3
3875.8	57.5°	2667.8	1249.7	180.0	118.8	104.2	87.9	81.3	76.3	70.8	67.1
4132.1	60°	2802.4	1277.2	155.0	106.3	92.5	79.6	73.3	68.8	61.7	55.4
4384.2	62.5°	2904.9	1266.4	127.9	92.1	80.4	72.1	64.2	59.6	51.3	43.8
4686.4	65°	3009.9	1207.2	102.1	77.1	70.4	62.1	53.8	49.2	39.6	31.7
5095.1	67.5°	3146.2	1081.0	80.4	64.2	60.8	49.2	42.1	39.2	32.5	25.0
5533.9	70°	3233.7	839.7	62.5	52.1	50.0	35.8	32.5	32.1	25.8	19.2
5504.4	72.5°	2993.7	550.5	47.9	39.6	35.8	23.3	25.0	25.0	18.8	12.9
4825.1	75°	2499.0	322.1	34.6	28.3	20.4	15.0	17.1	17.1	11.7	6.3
3439.1	77.5°	1784.8	171.7	22.9	17.5	10.4	6.7	9.2	8.8	3.8	0.4
1348.1	80°	682.6	59.2	10.8	7.1	2.9	1.3	0.8	0.4	0.4	0.0
210.4	82.5°	104.2	15.4	2.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0
44.6	85°	18.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.7	87.5°	4.2	0.0	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>
1110.1
904.3
656.7
440.5
319.2
280.9
266.3
251.7
235.9
215.4
198.4
183.8
172.1
162.1
150.9
141.3
133.3
123.3
112.9
102.5
92.9
84.2
75.0
65.4
53.8
40.8
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