

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: P946221

Luminaire Tested: **GALN-SB1D-940-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946221
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-SB1D-940-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA 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: 5979 lumens
Efficiency: N/A
Efficacy: 75.1 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

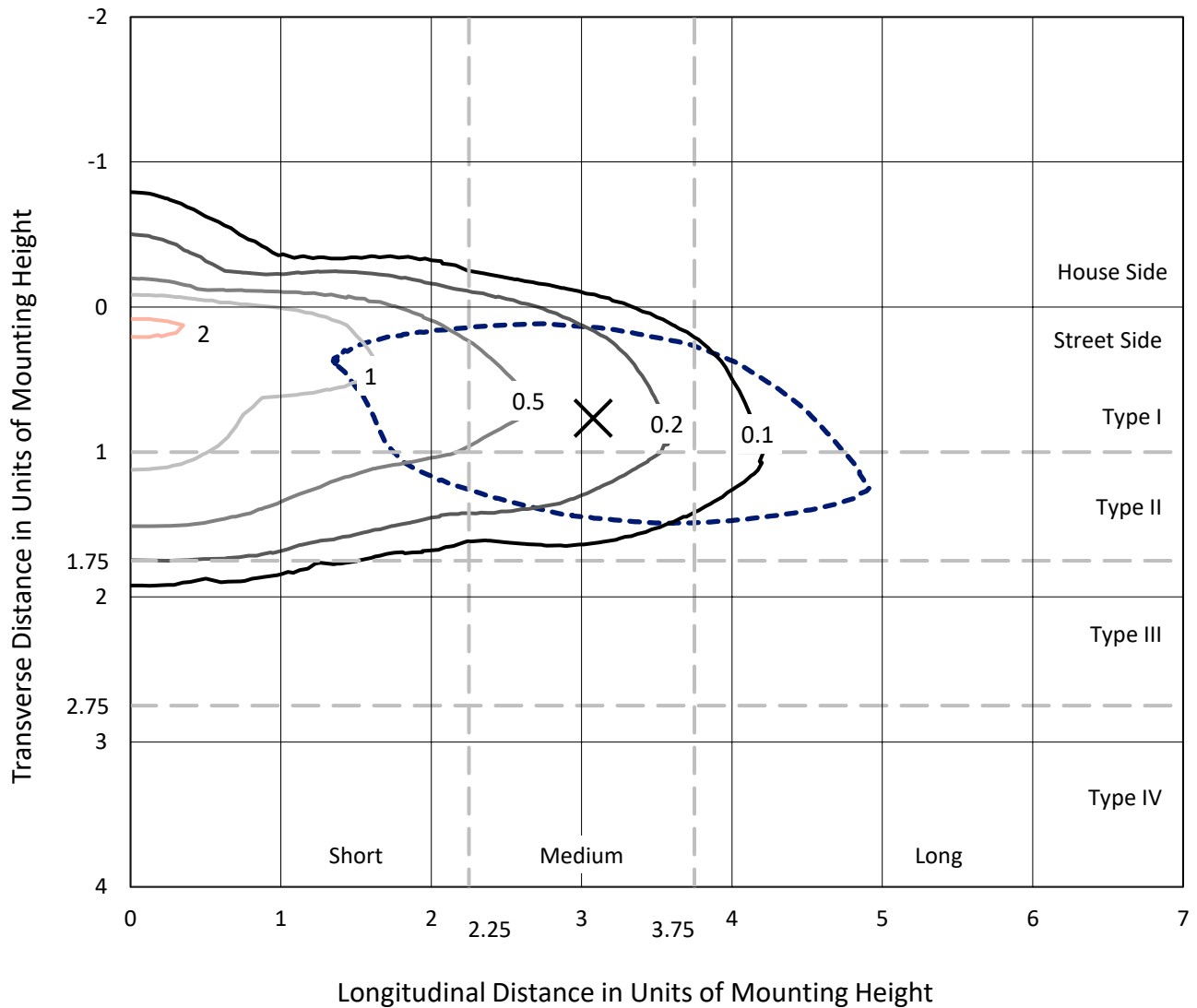
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

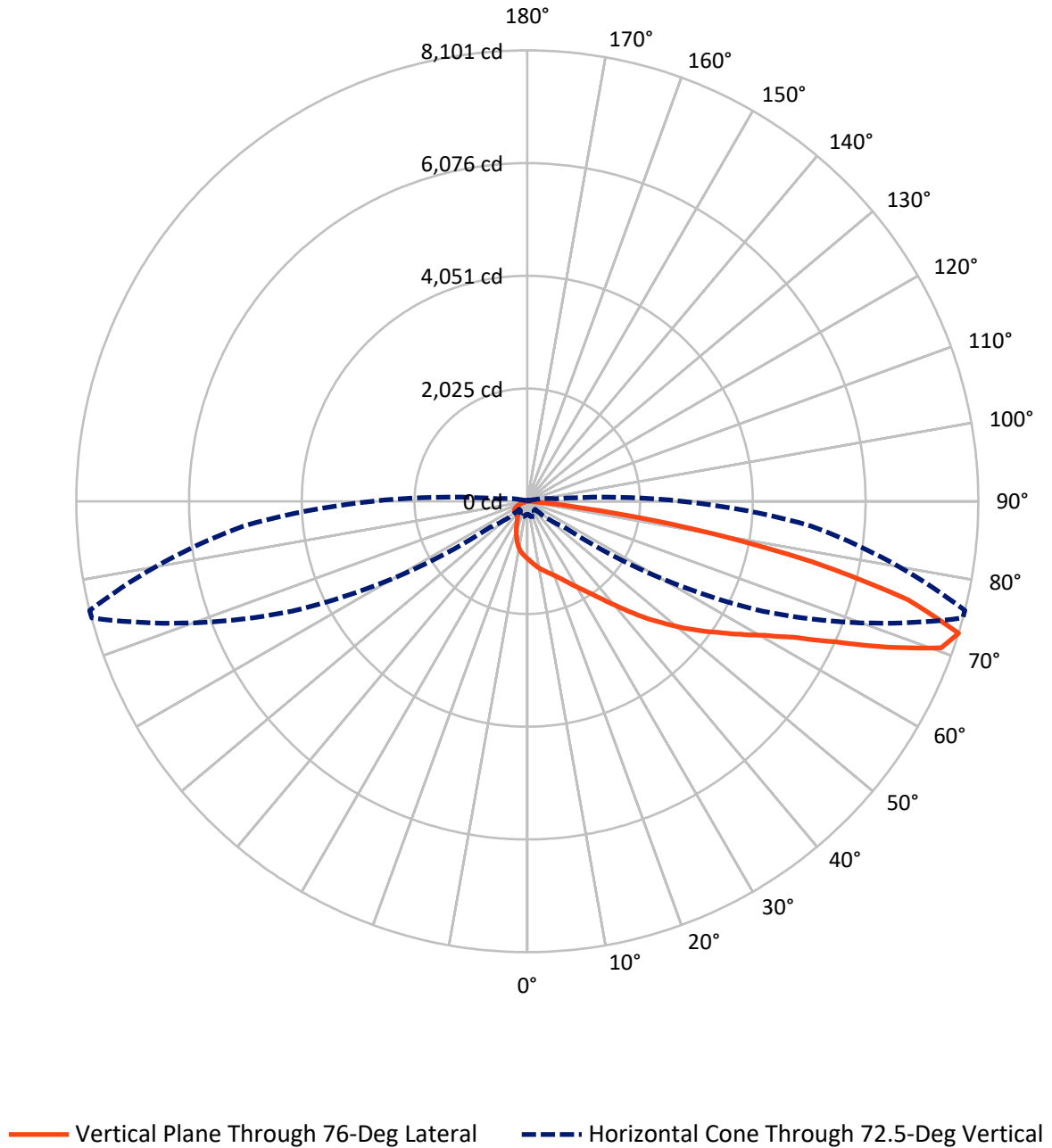
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	612.0	0.0	612.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	5367.1	0.0	5367.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	5979.0	0.0	5979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	1.6
10°-20°	252.0	4.2
20°-30°	398.8	6.7
30°-40°	617.0	10.3
40°-50°	937.1	15.7
50°-60°	1291.9	21.6
60°-70°	1364.8	22.8
70°-80°	936.3	15.7
80°-90°	87.1	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°	5979.0	100.0
0°-180°	5979.0	100.0

Coefficient of Utilization



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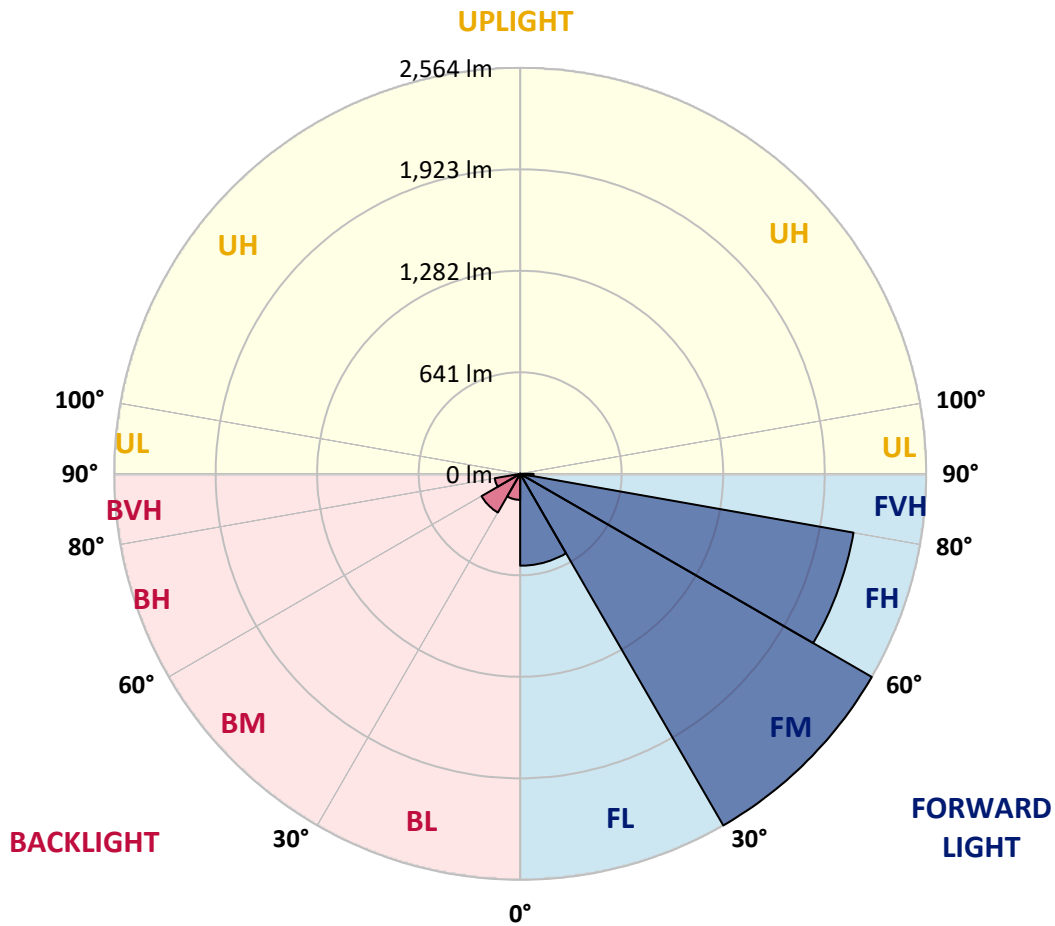
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.2	9.7			
FM (30°-60°)	2564.3	42.9			
FH (60°-80°)	2137.7	35.8			G2/5000
FVH (80°-90°)	84.8	1.4			G1/100
BL (0°-30°)	164.5	2.8	B1/500		
BM (30°-60°)	281.7	4.7	B1/1000		
BH (60°-80°)	163.4	2.7	B1/500		G1/500
BVH (80°-90°)	2.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2
2.5°	1201.2	1185.3	1188.4	1172.5	1165.1	1147.3	1128.6	1104.2	1077.0	1077.0
5°	1327.6	1317.5	1317.5	1298.9	1284.5	1256.6	1223.3	1180.2	1129.0	1124.0
7.5°	1405.2	1399.0	1402.8	1392.0	1380.3	1351.3	1311.7	1255.5	1182.9	1176.7
10°	1420.3	1419.9	1430.8	1433.9	1441.6	1426.9	1391.6	1326.8	1236.1	1227.1
12.5°	1361.7	1354.4	1381.1	1412.5	1456.8	1476.5	1458.3	1392.0	1284.5	1272.1
15°	1265.5	1267.1	1292.7	1341.2	1414.9	1485.5	1509.1	1455.6	1333.8	1319.1
17.5°	1210.5	1204.7	1226.8	1270.2	1351.6	1451.3	1532.8	1514.9	1386.2	1369.5
20°	1203.9	1203.5	1208.5	1228.3	1290.4	1402.5	1530.1	1572.7	1447.8	1428.4
22.5°	1249.6	1248.9	1244.6	1240.7	1257.8	1354.7	1518.4	1627.8	1521.5	1500.6
25°	1319.8	1318.7	1312.1	1288.4	1271.7	1329.2	1507.6	1679.0	1608.8	1585.5
27.5°	1405.6	1404.8	1392.8	1357.1	1314.0	1331.5	1502.1	1731.7	1709.6	1686.7
30°	1510.7	1509.1	1484.3	1433.9	1377.6	1368.3	1509.5	1791.1	1814.7	1797.3
32.5°	1642.5	1638.3	1605.7	1529.7	1450.9	1417.6	1523.5	1852.0	1939.2	1922.9
35°	1744.5	1737.9	1718.9	1651.8	1535.9	1478.1	1556.0	1924.1	2088.9	2074.6
37.5°	1832.2	1825.6	1810.1	1755.0	1657.7	1555.3	1608.4	2020.3	2265.8	2258.8
40°	1926.8	1916.0	1908.6	1849.6	1761.6	1666.6	1683.3	2132.8	2469.4	2470.2
42.5°	1999.7	1995.5	1996.2	1950.9	1862.1	1798.4	1782.5	2259.6	2713.4	2720.7
45°	2062.2	2058.7	2073.0	2041.2	1963.3	1884.9	1898.9	2403.1	2980.2	2995.3
47.5°	2110.3	2114.2	2134.7	2114.2	2068.4	1945.8	2002.1	2557.8	3260.6	3262.6
50°	2158.4	2159.9	2194.0	2184.0	2165.3	2023.0	2097.1	2730.8	3556.2	3559.7
52.5°	2173.5	2171.2	2225.5	2250.3	2251.1	2118.4	2220.0	2919.3	3845.9	3857.1
55°	2095.9	2102.5	2190.2	2291.0	2331.0	2250.3	2386.0	3157.8	4154.6	4159.3
57.5°	1716.6	1753.1	1947.0	2180.9	2382.5	2439.2	2624.6	3436.7	4511.0	4506.8
60°	1041.8	1085.2	1317.1	1829.1	2214.2	2628.8	2975.9	3868.8	4900.4	4888.4
62.5°	582.5	595.7	669.8	1094.9	1684.0	2508.2	3319.2	4423.8	5423.3	5382.5
65°	429.3	433.6	451.1	536.4	827.7	1929.1	3243.9	5087.4	6157.8	6085.3
67.5°	373.1	377.4	394.4	406.1	369.6	1013.4	2672.7	5455.4	7090.6	6995.6
70°	314.2	316.5	344.0	351.8	264.5	385.5	1717.0	5341.8	7954.0	7886.1
72.5°	234.3	243.6	283.5	302.1	212.2	204.8	808.3	4670.4	8100.2	8101.0
75°	159.0	167.5	213.3	248.6	163.7	143.5	326.2	3487.5	7053.4	7053.4
77.5°	108.6	115.6	148.5	195.1	124.1	98.5	169.1	2213.4	5060.2	5238.3
80°	48.1	52.4	95.8	141.6	94.2	63.6	95.8	1212.0	3060.1	3022.5
82.5°	23.7	27.1	61.3	88.4	60.9	39.2	50.4	576.3	991.7	942.5
85°	4.7	6.2	33.0	37.6	28.3	17.5	19.0	177.2	119.5	136.5
87.5°	0.0	0.0	10.1	7.0	3.1	3.9	3.9	15.9	9.3	10.9
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°
1033.2	0°	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2
1050.7	2.5°	1036.7	1022.4	990.9	959.9	928.1	899.0	878.9	858.7	846.3	840.9
1073.9	5°	1044.9	1015.8	949.8	880.8	812.5	745.8	695.8	648.9	634.1	609.7
1101.5	7.5°	1057.7	1010.3	906.4	790.0	679.1	581.4	510.8	454.6	432.1	410.3
1125.1	10°	1066.2	1000.3	849.0	693.5	543.4	433.6	366.1	325.4	310.7	297.5
1147.3	12.5°	1069.7	981.6	783.1	585.3	422.8	330.4	290.1	271.1	266.1	261.4
1168.2	15°	1072.8	963.4	709.4	480.9	333.9	276.5	260.6	254.4	250.9	247.8
1189.5	17.5°	1075.5	940.1	625.2	390.9	282.0	254.8	247.1	240.5	237.7	234.3
1220.2	20°	1084.8	917.6	550.0	322.7	253.7	239.3	230.8	223.8	221.5	219.1
1263.6	22.5°	1102.3	899.4	477.1	276.5	236.6	223.4	212.5	204.8	203.2	201.7
1316.4	25°	1123.2	876.9	408.4	246.7	219.9	205.2	193.1	186.6	185.0	185.4
1377.2	27.5°	1150.0	852.1	349.4	227.7	205.2	188.1	174.5	169.5	170.3	171.8
1447.4	30°	1179.4	829.2	303.3	214.5	192.0	173.0	159.4	155.9	158.6	161.0
1541.3	32.5°	1223.3	809.0	271.1	204.0	180.3	160.6	149.7	145.4	148.5	151.6
1661.1	35°	1283.0	799.0	252.9	195.1	170.3	150.9	140.0	136.9	140.0	140.8
1807.4	37.5°	1356.3	798.2	245.1	187.7	161.0	142.7	130.7	129.5	131.9	132.3
1983.1	40°	1450.9	803.2	239.3	182.3	151.3	133.4	122.2	121.0	121.8	124.5
2194.4	42.5°	1570.8	824.2	231.2	175.3	140.8	124.1	115.2	112.5	112.1	115.2
2431.0	45°	1721.3	870.3	220.3	164.1	131.5	116.4	107.4	104.3	103.2	103.9
2675.4	47.5°	1885.3	927.0	209.4	153.6	124.9	110.1	101.2	97.3	95.4	95.4
2903.8	50°	2044.3	990.9	202.1	142.7	120.2	104.3	94.6	90.8	87.7	86.9
3138.8	52.5°	2201.8	1053.8	196.3	131.9	114.8	97.0	88.4	84.2	80.7	79.1
3371.6	55°	2345.3	1113.5	186.2	121.4	107.8	89.2	82.2	78.0	73.7	71.0
3607.4	57.5°	2483.0	1163.2	167.5	110.5	97.0	81.8	75.6	71.0	65.9	62.4
3845.9	60°	2608.3	1188.7	144.3	98.9	86.1	74.1	68.3	64.0	57.4	51.6
4080.5	62.5°	2703.7	1178.7	119.1	85.7	74.9	67.1	59.7	55.5	47.7	40.7
4361.7	65°	2801.4	1123.6	95.0	71.8	65.5	57.8	50.0	45.8	36.8	29.5
4742.2	67.5°	2928.2	1006.1	74.9	59.7	56.6	45.8	39.2	36.5	30.3	23.3
5150.6	70°	3009.7	781.5	58.2	48.5	46.5	33.4	30.3	29.9	24.0	17.8
5123.1	72.5°	2786.3	512.3	44.6	36.8	33.4	21.7	23.3	23.3	17.5	12.0
4490.9	75°	2325.9	299.8	32.2	26.4	19.0	14.0	15.9	15.9	10.9	5.8
3200.9	77.5°	1661.1	159.8	21.3	16.3	9.7	6.2	8.5	8.1	3.5	0.4
1254.7	80°	635.3	55.1	10.1	6.6	2.7	1.2	0.8	0.4	0.4	0.0
195.9	82.5°	97.0	14.4	1.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
41.5	85°	17.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.9	87.5°	3.9	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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180°
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1033.2
841.6
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234.3
219.5
200.5
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171.0
160.2
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