

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: P946242

Luminaire Tested: **GALN-SB1D-950-U-SL2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946242  
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-950-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

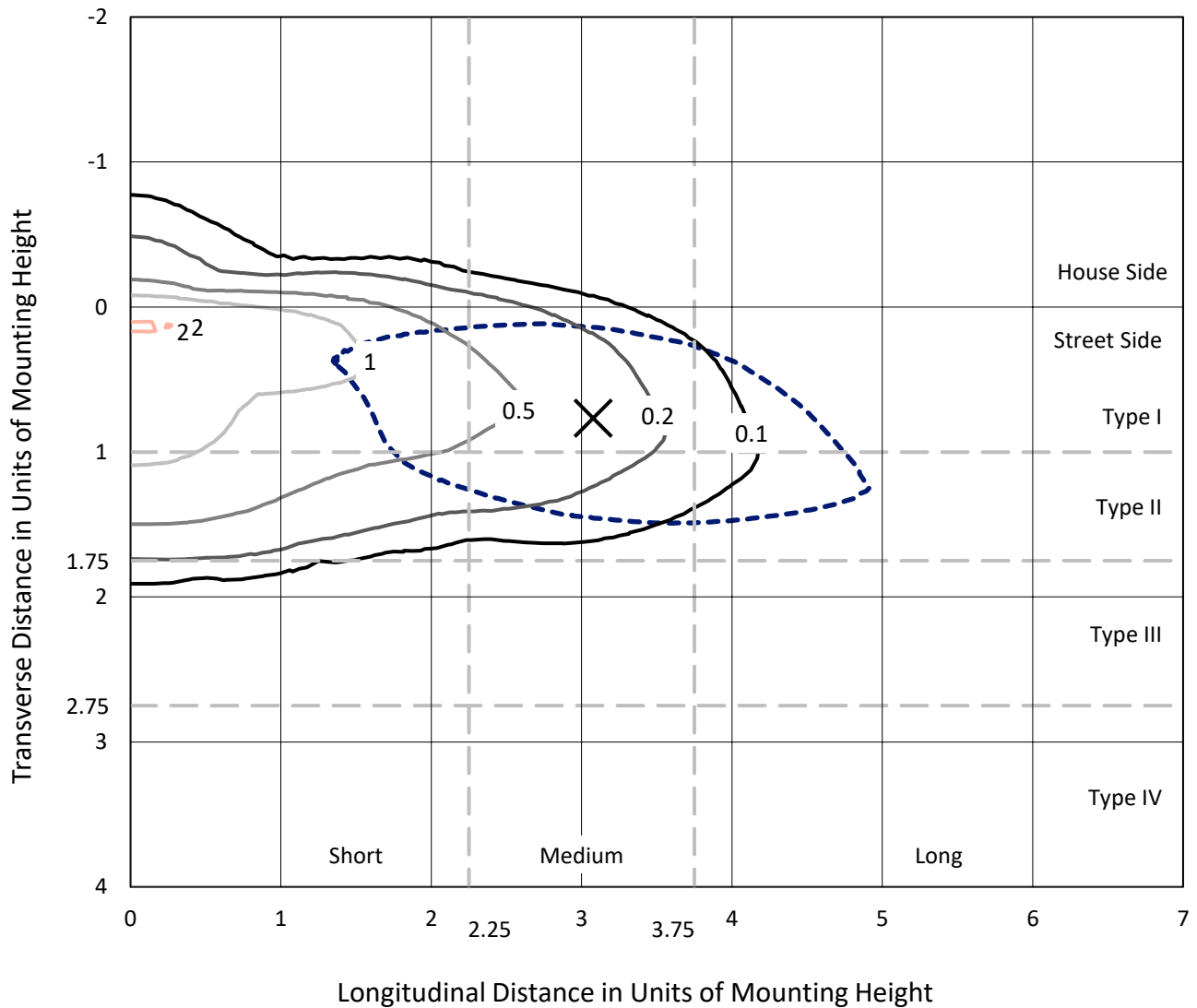
Lumens per Lamp: N/A  
Luminaire Lumens: 5739 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

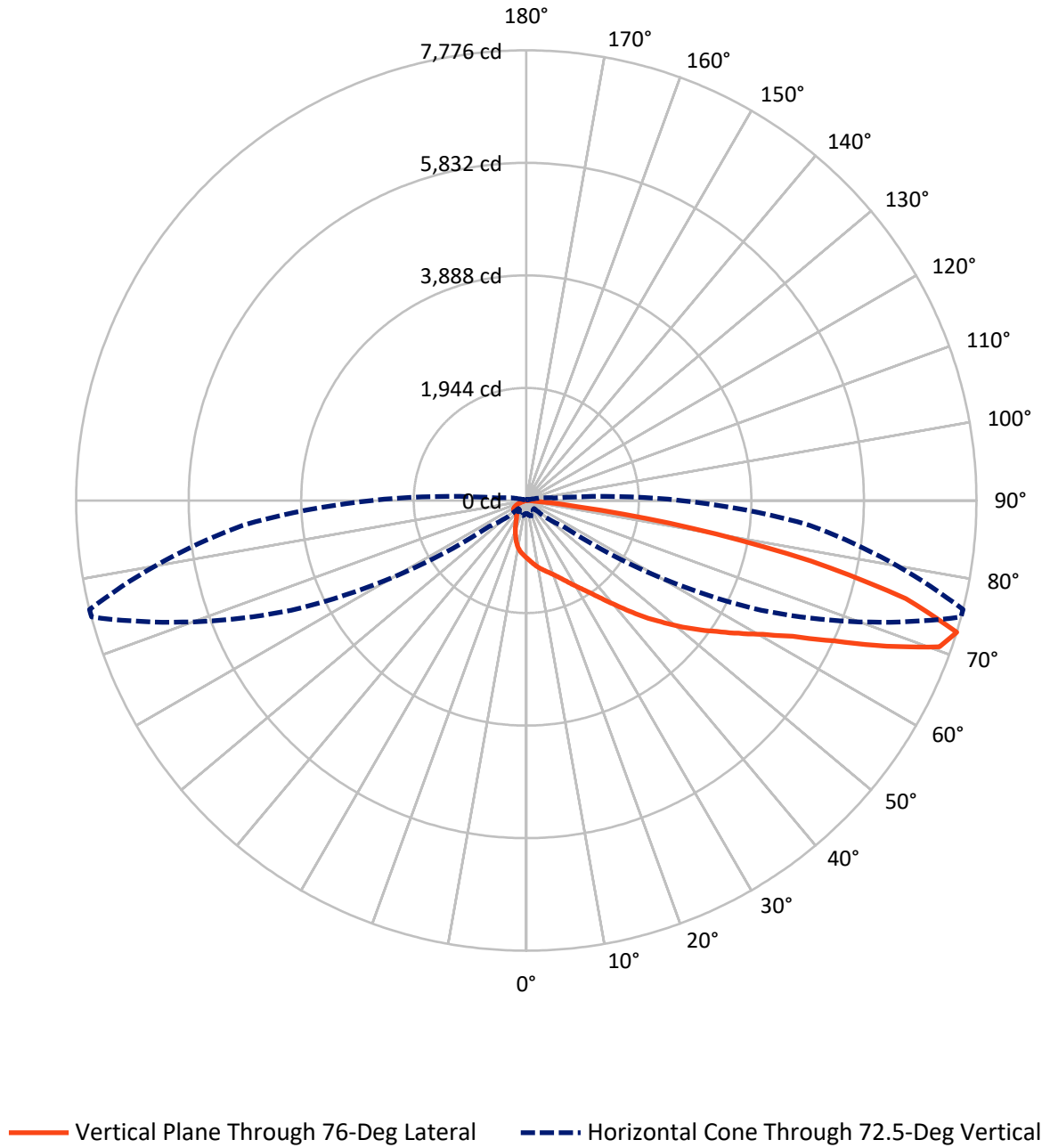
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	587.4	0.0	587.4
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	5151.6	0.0	5151.6
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	5739.0	0.0	5739.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.2	1.6
10°-20°	241.9	4.2
20°-30°	382.8	6.7
30°-40°	592.2	10.3
40°-50°	899.5	15.7
50°-60°	1240.0	21.6
60°-70°	1310.0	22.8
70°-80°	898.7	15.7
80°-90°	83.6	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°	5739.0	100.0
0°-180°	5739.0	100.0

**Coefficient of Utilization**



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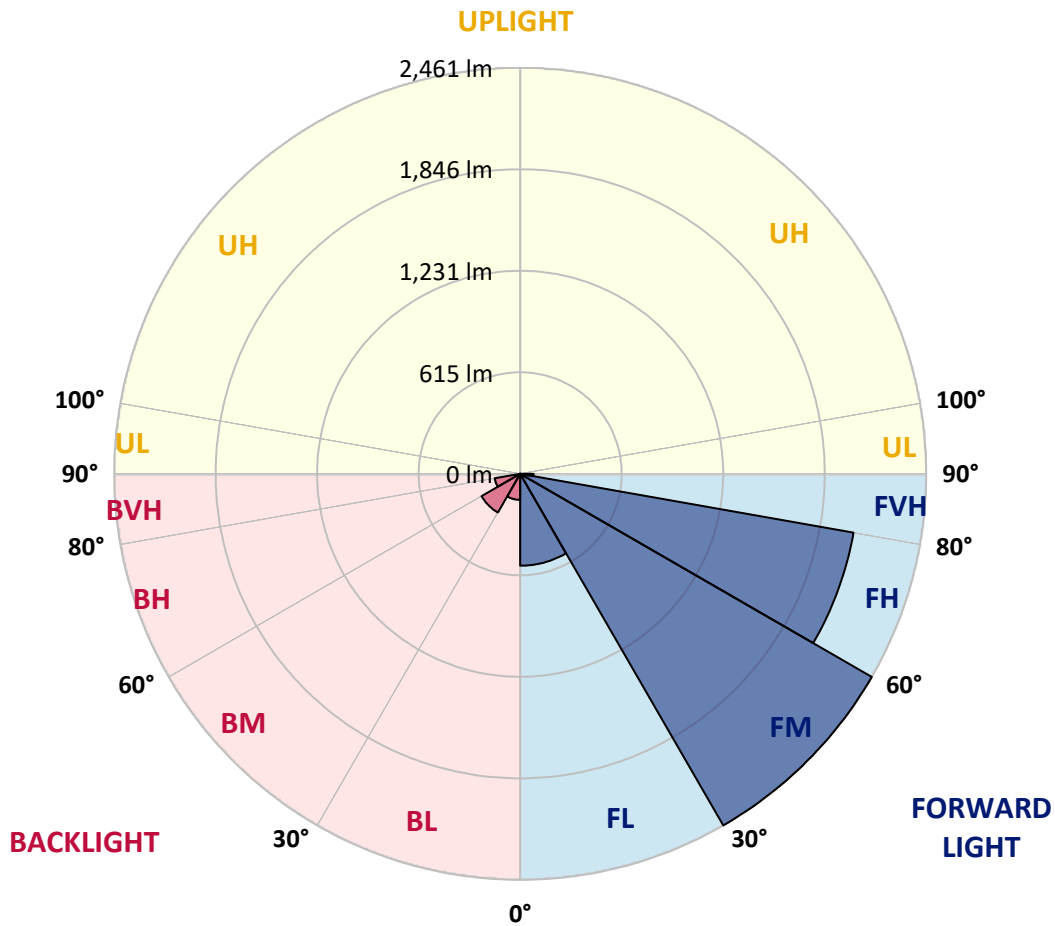
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.0	9.7			
FM (30°-60°)	2461.3	42.9			
FH (60°-80°)	2051.9	35.8			G2/5000
FVH (80°-90°)	81.4	1.4			G1/100
BL (0°-30°)	157.9	2.8	B1/500		
BM (30°-60°)	270.4	4.7	B1/1000		
BH (60°-80°)	156.8	2.7	B1/500		G1/500
BVH (80°-90°)	2.3	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°	991.7	991.7	991.7	991.7	991.7	991.7	991.7	991.7	991.7	991.7
2.5°	1152.9	1137.7	1140.7	1125.4	1118.3	1101.2	1083.3	1059.9	1033.8	1033.8
5°	1274.3	1264.6	1264.6	1246.8	1233.0	1206.2	1174.2	1132.8	1083.7	1078.9
7.5°	1348.8	1342.8	1346.5	1336.1	1324.9	1297.0	1259.0	1205.1	1135.4	1129.5
10°	1363.3	1362.9	1373.3	1376.3	1383.8	1369.6	1335.7	1273.6	1186.5	1177.9
12.5°	1307.1	1300.0	1325.7	1355.8	1398.3	1417.3	1399.8	1336.1	1233.0	1221.1
15°	1214.7	1216.2	1240.8	1287.3	1358.1	1425.8	1448.5	1397.2	1280.3	1266.1
17.5°	1161.9	1156.3	1177.5	1219.2	1297.4	1393.1	1471.2	1454.1	1330.5	1314.5
20°	1155.6	1155.2	1160.0	1179.0	1238.6	1346.2	1468.6	1509.6	1389.7	1371.1
22.5°	1199.5	1198.7	1194.6	1190.9	1207.3	1300.4	1457.5	1562.5	1460.4	1440.3
25°	1266.9	1265.7	1259.4	1236.7	1220.7	1275.8	1447.0	1611.6	1544.2	1521.9
27.5°	1349.1	1348.4	1336.9	1302.6	1261.3	1278.0	1441.8	1662.2	1641.0	1619.0
30°	1450.0	1448.5	1424.7	1376.3	1322.3	1313.4	1448.9	1719.2	1741.9	1725.1
32.5°	1576.6	1572.5	1541.2	1468.3	1392.7	1360.7	1462.3	1777.6	1861.4	1845.8
35°	1674.5	1668.2	1649.9	1585.5	1474.2	1418.8	1493.6	1846.9	2005.1	1991.3
37.5°	1758.6	1752.3	1737.4	1684.6	1591.1	1492.8	1543.8	1939.2	2174.8	2168.1
40°	1849.5	1839.1	1832.0	1775.4	1690.9	1599.7	1615.7	2047.2	2370.3	2371.0
42.5°	1919.5	1915.4	1916.1	1872.6	1787.3	1726.3	1711.0	2168.9	2604.5	2611.5
45°	1979.4	1976.1	1989.8	1959.3	1884.5	1809.3	1822.7	2306.6	2860.6	2875.1
47.5°	2025.6	2029.3	2049.0	2029.3	1985.4	1867.7	1921.7	2455.2	3129.7	3131.6
50°	2071.7	2073.2	2106.0	2096.3	2078.4	1941.8	2012.9	2621.2	3413.4	3416.8
52.5°	2086.2	2084.0	2136.1	2160.0	2160.7	2033.4	2130.9	2802.1	3691.5	3702.3
55°	2011.8	2018.1	2102.3	2199.0	2237.4	2160.0	2290.3	3031.1	3987.8	3992.3
57.5°	1647.7	1682.7	1868.8	2093.3	2286.9	2341.3	2519.2	3298.8	4330.0	4325.9
60°	999.9	1041.6	1264.3	1755.7	2125.3	2523.3	2856.5	3713.5	4703.7	4692.2
62.5°	559.2	571.8	642.9	1050.9	1616.4	2407.5	3186.0	4246.2	5205.6	5166.5
65°	412.1	416.2	433.0	514.9	794.4	1851.7	3113.7	4883.2	5910.7	5841.0
67.5°	358.1	362.2	378.6	389.8	354.8	972.8	2565.4	5236.5	6806.0	6714.8
70°	301.5	303.8	330.2	337.7	253.9	370.0	1648.1	5127.4	7634.7	7569.5
72.5°	224.9	233.8	272.1	290.0	203.6	196.6	775.8	4483.0	7775.0	7775.8
75°	152.6	160.8	204.8	238.6	157.1	137.7	313.1	3347.5	6770.3	6770.3
77.5°	104.2	110.9	142.6	187.3	119.1	94.6	162.3	2124.6	4857.1	5028.0
80°	46.2	50.3	92.0	135.9	90.5	61.1	92.0	1163.4	2937.3	2901.2
82.5°	22.7	26.1	58.8	84.9	58.4	37.6	48.4	553.2	951.9	904.6
85°	4.5	6.0	31.6	36.1	27.2	16.8	18.2	170.1	114.7	131.0
87.5°	0.0	0.0	9.7	6.7	3.0	3.7	3.7	15.3	8.9	10.4
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°
991.7	0°	991.7	991.7	991.7	991.7	991.7	991.7	991.7	991.7	991.7	991.7
1008.5	2.5°	995.1	981.3	951.2	921.4	890.9	862.9	843.6	824.2	812.3	807.1
1030.8	5°	1002.9	975.0	911.7	845.4	779.9	715.9	667.9	622.8	608.7	585.2
1057.3	7.5°	1015.2	969.8	870.0	758.3	651.9	558.0	490.3	436.3	414.7	393.9
1080.0	10°	1023.4	960.1	814.9	665.6	521.6	416.2	351.4	312.3	298.2	285.5
1101.2	12.5°	1026.7	942.2	751.6	561.8	405.8	317.2	278.5	260.2	255.4	250.9
1121.3	15°	1029.7	924.7	680.9	461.6	320.5	265.4	250.2	244.2	240.9	237.9
1141.8	17.5°	1032.3	902.4	600.1	375.3	270.6	244.6	237.1	230.8	228.2	224.9
1171.2	20°	1041.3	880.8	527.9	309.7	243.5	229.7	221.5	214.8	212.6	210.3
1212.9	22.5°	1058.0	863.3	457.9	265.4	227.1	214.4	204.0	196.6	195.1	193.6
1263.5	25°	1078.1	841.7	392.0	236.8	211.1	196.9	185.4	179.1	177.6	177.9
1322.0	27.5°	1103.8	817.9	335.4	218.5	196.9	180.6	167.5	162.7	163.4	164.9
1389.3	30°	1132.1	795.9	291.1	205.9	184.3	166.0	153.0	149.7	152.3	154.5
1479.4	32.5°	1174.2	776.6	260.2	195.8	173.1	154.1	143.7	139.6	142.6	145.6
1594.5	35°	1231.5	766.9	242.7	187.3	163.4	144.8	134.4	131.4	134.4	135.1
1734.8	37.5°	1301.9	766.1	235.3	180.2	154.5	137.0	125.5	124.3	126.6	126.9
1903.5	40°	1392.7	771.0	229.7	175.0	145.2	128.1	117.3	116.2	116.9	119.5
2106.4	42.5°	1507.7	791.1	221.9	168.3	135.1	119.1	110.6	108.0	107.6	110.6
2333.4	45°	1652.2	835.4	211.5	157.5	126.2	111.7	103.1	100.1	99.0	99.8
2568.0	47.5°	1809.6	889.7	201.0	147.4	119.9	105.7	97.2	93.4	91.6	91.6
2787.2	50°	1962.3	951.2	194.0	137.0	115.4	100.1	90.8	87.1	84.1	83.4
3012.8	52.5°	2113.4	1011.5	188.4	126.6	110.2	93.1	84.9	80.8	77.4	75.9
3236.2	55°	2251.2	1068.8	178.7	116.5	103.5	85.6	78.9	74.8	70.7	68.1
3462.6	57.5°	2383.3	1116.5	160.8	106.1	93.1	78.6	72.6	68.1	63.3	59.9
3691.5	60°	2503.6	1141.0	138.5	94.9	82.6	71.1	65.5	61.4	55.1	49.5
3916.7	62.5°	2595.2	1131.4	114.3	82.3	71.8	64.4	57.3	53.2	45.8	39.1
4186.6	65°	2689.0	1078.5	91.2	68.9	62.9	55.5	48.0	43.9	35.4	28.3
4551.8	67.5°	2810.7	965.7	71.8	57.3	54.4	43.9	37.6	35.0	29.0	22.3
4943.9	70°	2888.9	750.1	55.8	46.5	44.7	32.0	29.0	28.7	23.1	17.1
4917.4	72.5°	2674.4	491.8	42.8	35.4	32.0	20.8	22.3	22.3	16.8	11.5
4310.6	75°	2232.6	287.8	30.9	25.3	18.2	13.4	15.3	15.3	10.4	5.6
3072.4	77.5°	1594.5	153.4	20.5	15.6	9.3	6.0	8.2	7.8	3.4	0.4
1204.3	80°	609.8	52.9	9.7	6.3	2.6	1.1	0.7	0.4	0.4	0.0
188.0	82.5°	93.1	13.8	1.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
39.8	85°	16.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.4	87.5°	3.7	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>
991.7
807.8
586.7
393.5
285.2
250.9
237.9
224.9
210.7
192.5
177.2
164.2
153.8
144.8
134.8
126.2
119.1
110.2
100.9
91.6
83.0
75.2
67.0
58.4
48.0
36.5
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