

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: P946245

Luminaire Tested: **GALN-SB1D-950-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946245  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
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-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

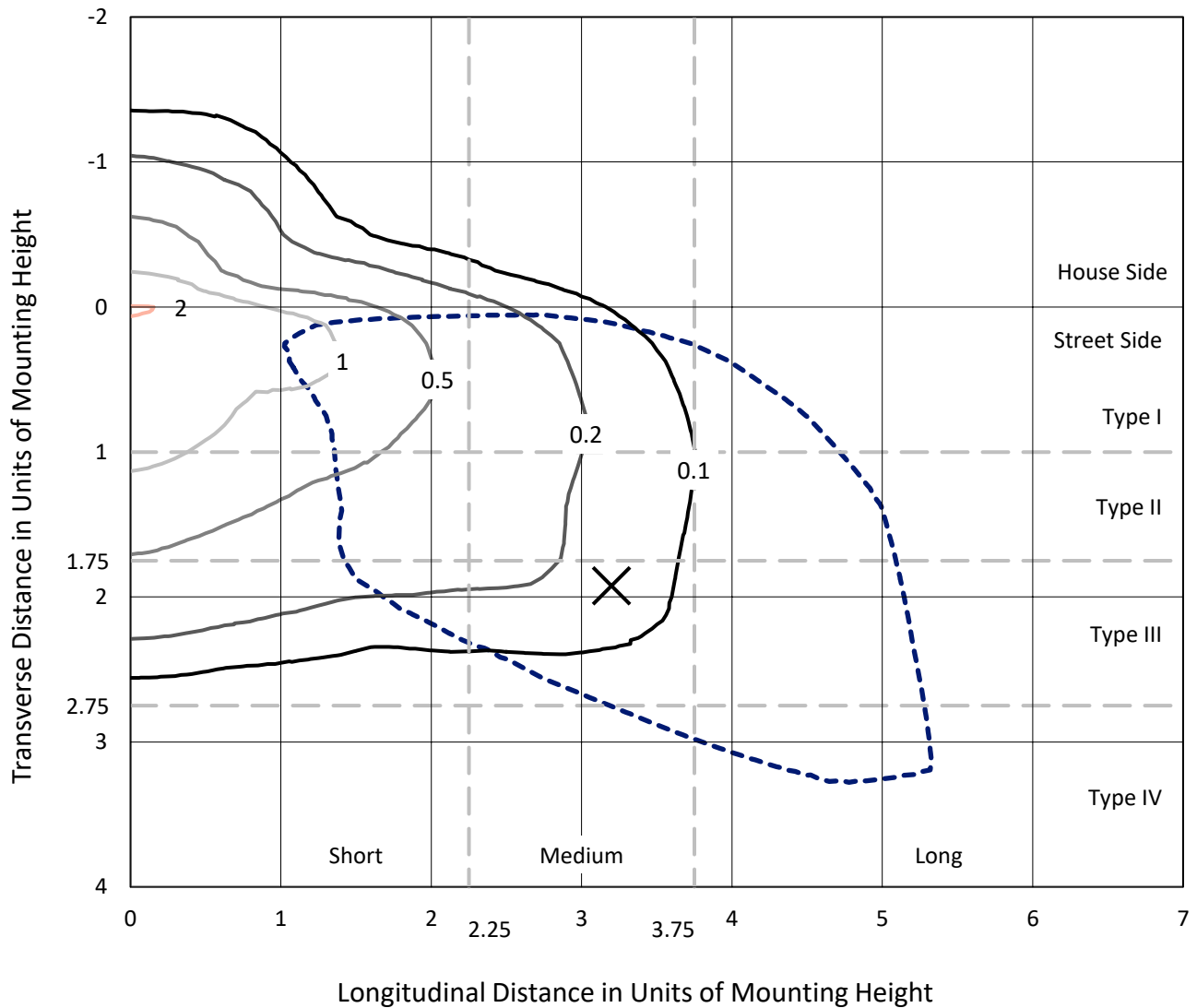
Lumens per Lamp: N/A  
Luminaire Lumens: 6921 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

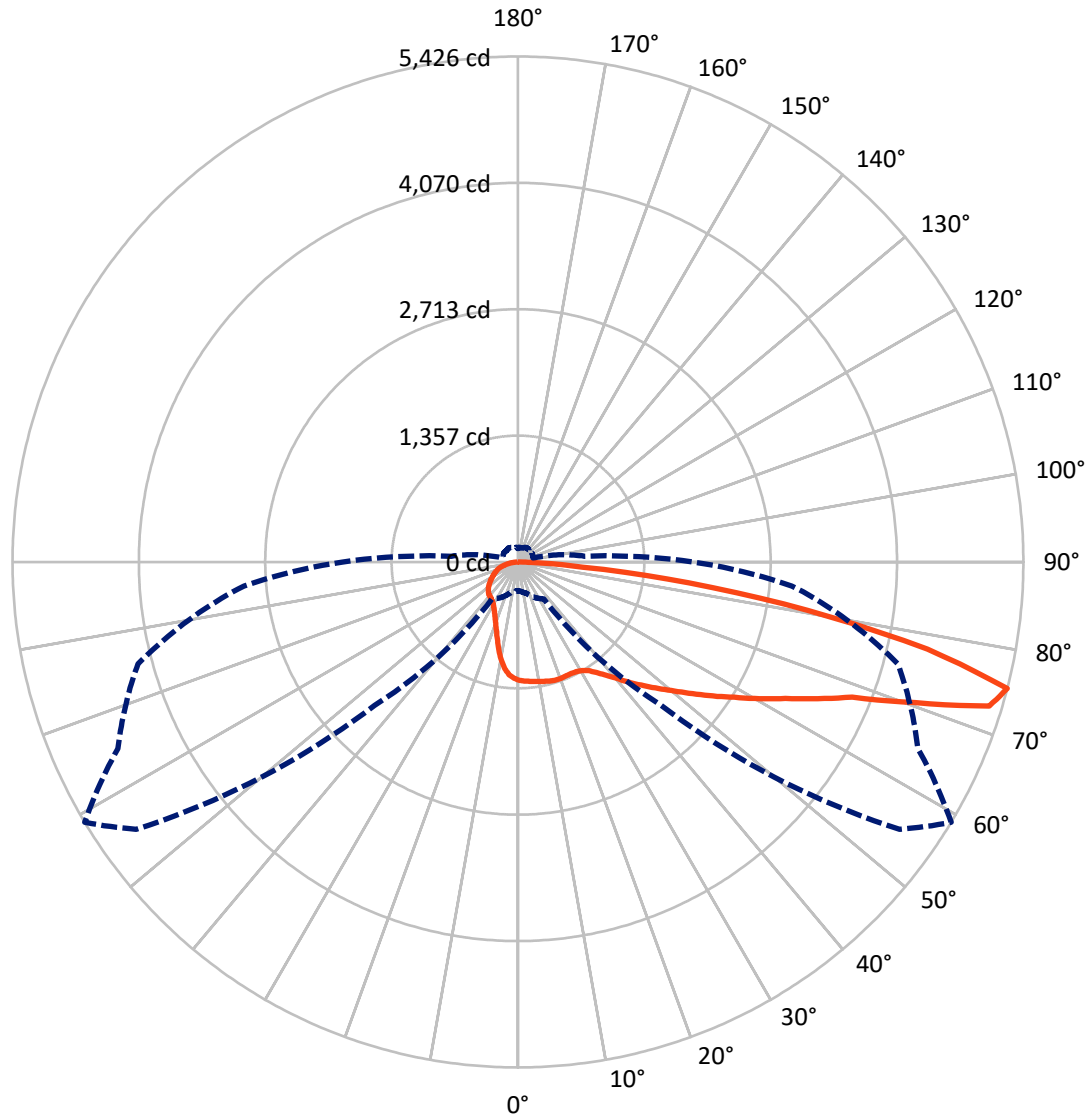
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1298.1	0.0	1298.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	5622.9	0.0	5622.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	6921.0	0.0	6921.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.9	1.6
10°-20°	291.2	4.2
20°-30°	442.2	6.4
30°-40°	657.4	9.5
40°-50°	977.6	14.1
50°-60°	1327.0	19.2
60°-70°	1620.1	23.4
70°-80°	1271.4	18.4
80°-90°	220.2	3.2
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°	6921.0	100.0
0°-180°	6921.0	100.0

**Coefficient of Utilization**



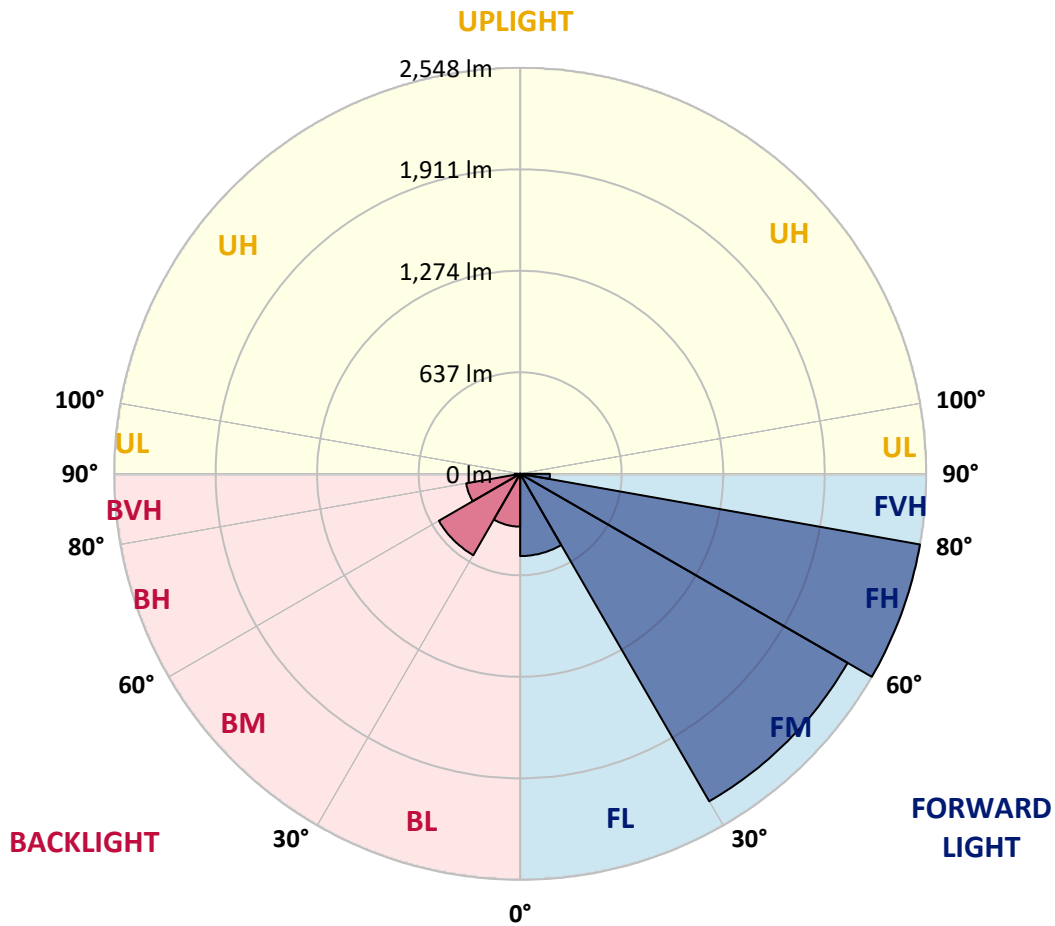
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	516.0	7.5			
FM (30°-60°)	2372.8	34.3			
FH (60°-80°)	2547.5	36.8			G2/5000
FVH (80°-90°)	186.5	2.7			G2/225
BL (0°-30°)	331.3	4.8	B1/500		
BM (30°-60°)	589.2	8.5	B1/1000		
BH (60°-80°)	343.9	5.0	B1/500		G1/500
BVH (80°-90°)	33.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3
2.5°	1281.1	1276.7	1281.1	1279.3	1278.5	1277.0	1277.4	1280.0	1278.5	1280.4
5°	1272.6	1270.0	1274.4	1273.3	1278.2	1278.9	1283.7	1286.7	1288.6	1288.9
7.5°	1258.4	1255.8	1262.1	1267.4	1277.8	1280.8	1290.8	1295.7	1298.3	1302.7
10°	1206.7	1205.6	1221.2	1240.9	1265.5	1280.8	1296.0	1304.2	1308.3	1320.2
12.5°	1115.1	1116.6	1137.0	1175.0	1224.2	1273.3	1302.0	1313.9	1320.2	1335.1
15°	1027.6	1027.2	1049.6	1090.1	1159.0	1240.5	1305.0	1325.4	1336.2	1358.2
17.5°	977.0	975.5	991.1	1022.0	1086.0	1190.3	1297.5	1331.8	1354.8	1382.4
20°	967.6	964.7	972.9	988.1	1033.5	1135.2	1278.2	1331.8	1369.7	1405.5
22.5°	1001.5	996.7	993.3	991.5	1011.6	1089.8	1256.2	1327.3	1391.7	1438.6
25°	1069.7	1062.2	1045.1	1028.3	1022.4	1069.3	1236.8	1326.2	1424.5	1483.3
27.5°	1179.9	1170.6	1135.9	1095.7	1059.6	1079.7	1228.3	1332.9	1460.6	1530.6
30°	1316.5	1306.4	1262.9	1201.1	1136.3	1118.4	1239.1	1352.6	1506.8	1593.5
32.5°	1439.0	1427.8	1390.6	1327.7	1240.2	1185.4	1273.3	1390.2	1579.4	1681.0
35°	1547.7	1534.7	1501.2	1443.1	1367.5	1279.6	1335.1	1456.9	1682.5	1823.2
37.5°	1654.2	1638.9	1602.4	1541.0	1488.1	1405.1	1420.4	1542.5	1819.5	1996.0
40°	1773.3	1751.4	1707.1	1646.4	1595.0	1552.2	1532.4	1647.5	1958.7	2188.8
42.5°	1888.7	1867.9	1815.0	1763.3	1698.9	1686.6	1662.4	1770.4	2111.0	2400.7
45°	2013.1	1988.2	1924.1	1858.6	1818.0	1775.9	1788.2	1893.2	2260.3	2616.6
47.5°	2129.6	2101.7	2026.1	1953.2	1930.8	1851.1	1903.6	2028.4	2415.6	2835.5
50°	2192.6	2165.0	2102.1	2036.2	2018.7	1943.8	2028.7	2176.9	2578.3	3053.7
52.5°	2245.1	2215.3	2133.0	2096.5	2091.3	2044.7	2182.9	2346.7	2741.0	3246.6
55°	2300.9	2267.8	2162.8	2130.0	2153.8	2157.9	2365.7	2539.2	2913.0	3434.6
57.5°	2365.3	2323.2	2191.4	2158.3	2214.9	2290.5	2575.7	2738.7	3082.0	3608.8
60°	2426.0	2383.6	2246.5	2203.4	2280.8	2444.2	2816.6	2980.4	3273.4	3764.1
62.5°	2437.9	2402.9	2290.5	2290.1	2370.1	2623.7	3101.7	3224.2	3440.6	3917.5
65°	2231.6	2209.7	2143.0	2286.8	2498.2	2882.1	3419.3	3536.2	3653.1	4051.5
67.5°	1698.5	1701.5	1696.6	1974.0	2394.7	3253.3	3879.1	3870.2	3915.6	4201.9
70°	776.6	794.1	908.1	1362.7	1918.5	3296.1	4639.4	4523.6	4245.1	4396.7
72.5°	419.6	433.0	479.5	660.1	1153.4	2930.5	5207.6	5289.8	4683.3	4527.7
75°	307.9	315.3	347.7	419.6	484.4	2178.0	5003.9	5426.1	4738.1	4222.0
77.5°	230.5	233.8	260.2	332.5	248.0	1148.2	3998.3	4493.8	4056.0	3468.8
80°	167.2	170.9	190.6	249.5	173.9	420.0	2745.4	3154.2	2777.8	2211.2
82.5°	115.4	116.9	125.5	169.8	121.4	163.1	1557.8	1849.7	1550.7	775.9
85°	69.6	71.5	75.2	99.0	68.9	77.4	672.4	695.5	463.5	185.4
87.5°	28.7	30.5	33.5	41.7	27.2	21.6	110.9	139.2	86.7	54.4
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°
1270.3	0°	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3
1274.1	2.5°	1272.2	1269.6	1262.5	1252.8	1243.9	1232.7	1227.9	1223.8	1220.1	1213.0
1284.1	5°	1280.0	1272.9	1254.0	1229.4	1201.5	1170.9	1141.1	1120.7	1103.2	1090.1
1295.7	7.5°	1291.9	1278.5	1243.9	1193.6	1129.6	1064.1	1004.9	962.8	931.2	919.6
1312.0	10°	1304.2	1288.2	1227.9	1139.3	1028.7	927.8	849.2	806.1	780.7	772.6
1331.4	12.5°	1318.7	1295.3	1202.9	1063.7	915.9	805.3	736.8	711.5	698.5	694.0
1355.2	15°	1340.0	1301.2	1165.3	969.1	808.3	716.0	671.7	654.2	647.5	647.1
1379.8	17.5°	1356.0	1302.4	1106.9	867.9	725.6	662.0	625.5	618.8	623.3	630.0
1404.0	20°	1373.8	1292.3	1030.2	775.5	667.6	614.7	599.4	603.9	614.7	624.4
1436.0	22.5°	1386.5	1274.1	937.5	703.7	617.3	587.5	586.8	596.1	602.0	606.9
1473.6	25°	1397.7	1243.2	839.2	643.4	576.0	571.1	579.3	576.3	572.2	576.3
1511.2	27.5°	1405.9	1194.4	751.3	590.5	546.9	560.0	555.1	548.4	548.0	550.3
1555.5	30°	1403.3	1129.2	679.1	540.2	526.5	539.1	527.6	526.5	525.3	526.5
1622.2	32.5°	1403.3	1055.1	623.6	505.6	513.4	508.6	507.5	504.9	500.4	500.0
1712.6	35°	1411.1	981.0	576.0	487.0	502.6	491.1	491.8	485.5	476.2	471.7
1832.5	37.5°	1427.1	921.5	528.7	478.1	483.6	483.3	480.3	469.5	453.1	439.0
1982.2	40°	1465.8	904.0	496.3	474.0	474.7	479.2	471.3	450.5	413.3	390.2
2134.1	42.5°	1526.5	933.4	489.2	463.9	468.7	473.2	457.9	409.5	383.1	369.3
2293.5	45°	1603.6	984.8	504.5	449.4	454.6	462.4	417.0	393.9	382.0	382.4
2451.3	47.5°	1701.1	1038.8	532.8	436.7	434.1	438.6	389.8	375.7	359.3	363.4
2602.8	50°	1813.9	1093.5	559.6	419.6	411.4	396.9	372.3	358.9	338.1	328.4
2749.2	52.5°	1936.0	1146.4	570.4	398.7	386.8	370.1	360.4	344.0	318.7	302.7
2887.3	55°	2051.8	1194.4	558.5	373.8	362.3	349.2	347.7	337.7	310.5	288.2
3010.2	57.5°	2161.3	1234.6	528.7	348.5	337.3	329.5	339.6	334.7	300.5	271.8
3126.3	60°	2254.0	1262.1	485.5	322.8	315.0	310.9	326.1	324.7	286.3	254.3
3230.6	62.5°	2327.7	1272.9	437.8	298.2	296.4	288.9	307.5	307.5	268.4	237.2
3322.2	65°	2385.4	1262.5	389.4	274.0	277.7	266.6	284.8	282.6	249.5	221.9
3427.5	67.5°	2436.4	1228.3	335.8	250.2	258.8	244.6	261.0	255.8	228.6	206.6
3518.7	70°	2459.1	1148.6	274.8	226.4	236.8	223.0	237.2	227.5	205.1	190.3
3418.6	72.5°	2276.7	954.6	216.3	201.4	210.4	199.2	211.5	200.3	179.8	173.1
2952.1	75°	1883.5	716.3	166.4	174.2	180.9	172.4	180.6	172.4	153.8	158.6
2180.6	77.5°	1367.9	483.6	127.3	145.6	148.6	144.1	151.2	141.9	125.1	124.0
1086.8	80°	680.2	283.3	99.8	115.0	113.9	110.9	119.1	114.7	100.5	106.5
293.4	82.5°	197.0	121.4	72.6	80.8	78.6	79.3	85.3	87.5	131.1	129.9
91.2	85°	61.8	47.7	43.6	45.0	42.8	43.9	50.3	99.8	92.3	54.0
28.3	87.5°	16.0	16.4	10.8	11.5	11.9	14.1	16.0	60.7	29.0	19.0
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>
1270.3
1209.6
1079.3
899.5
759.9
695.1
648.6
632.6
627.7
609.5
578.9
554.0
530.5
504.9
476.2
443.8
393.2
369.3
384.2
373.8
331.0
302.3
288.2
270.3
253.2
236.0
220.4
205.1
187.3
167.5
<i>144.8</i>
118.4
105.4
132.9
58.5
20.1
0.0

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