

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: P947218

Luminaire Tested: **GALN-SB2C-850-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947218  
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-SB2C-850-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

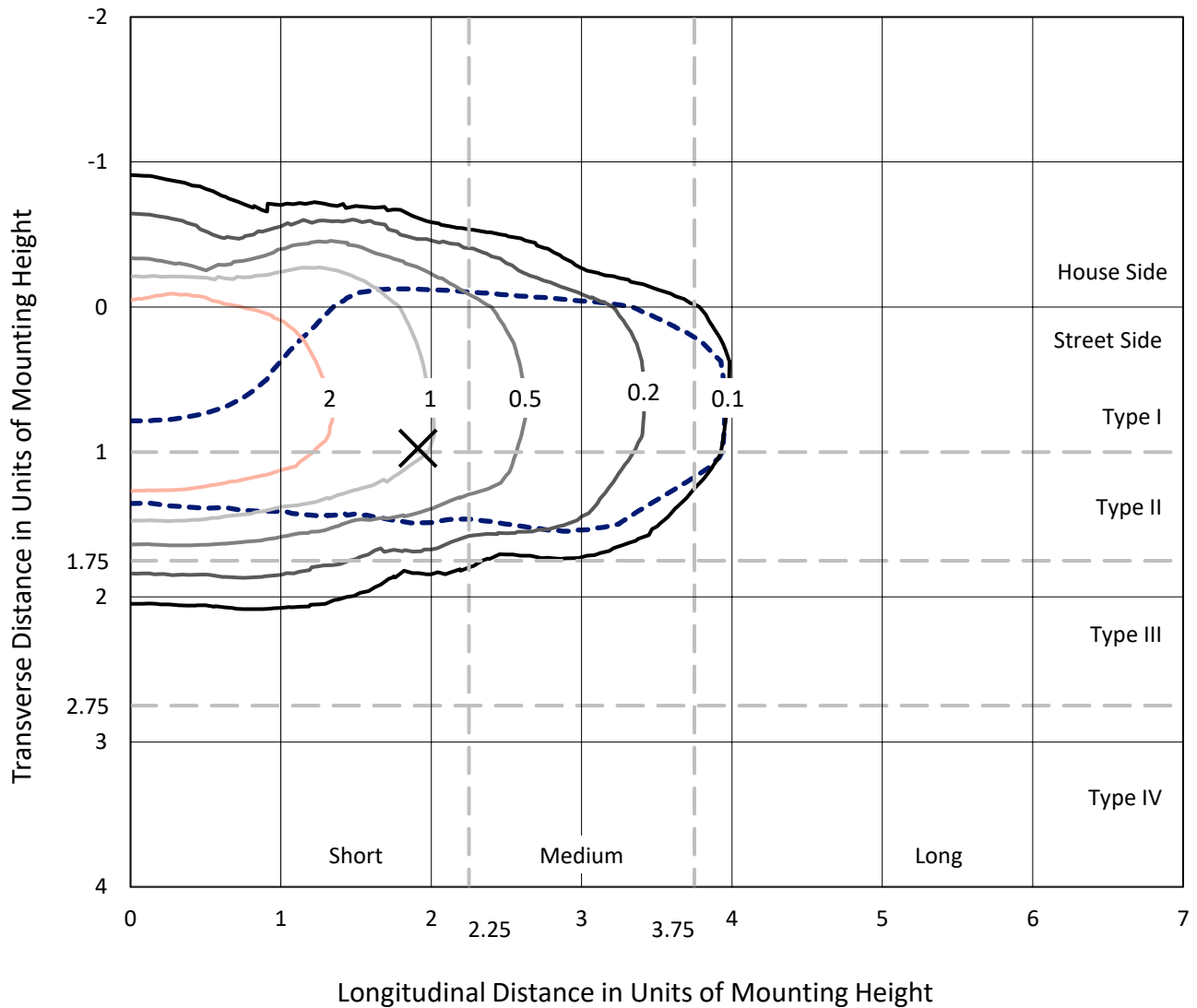
Lumens per Lamp: N/A  
Luminaire Lumens: 10948 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

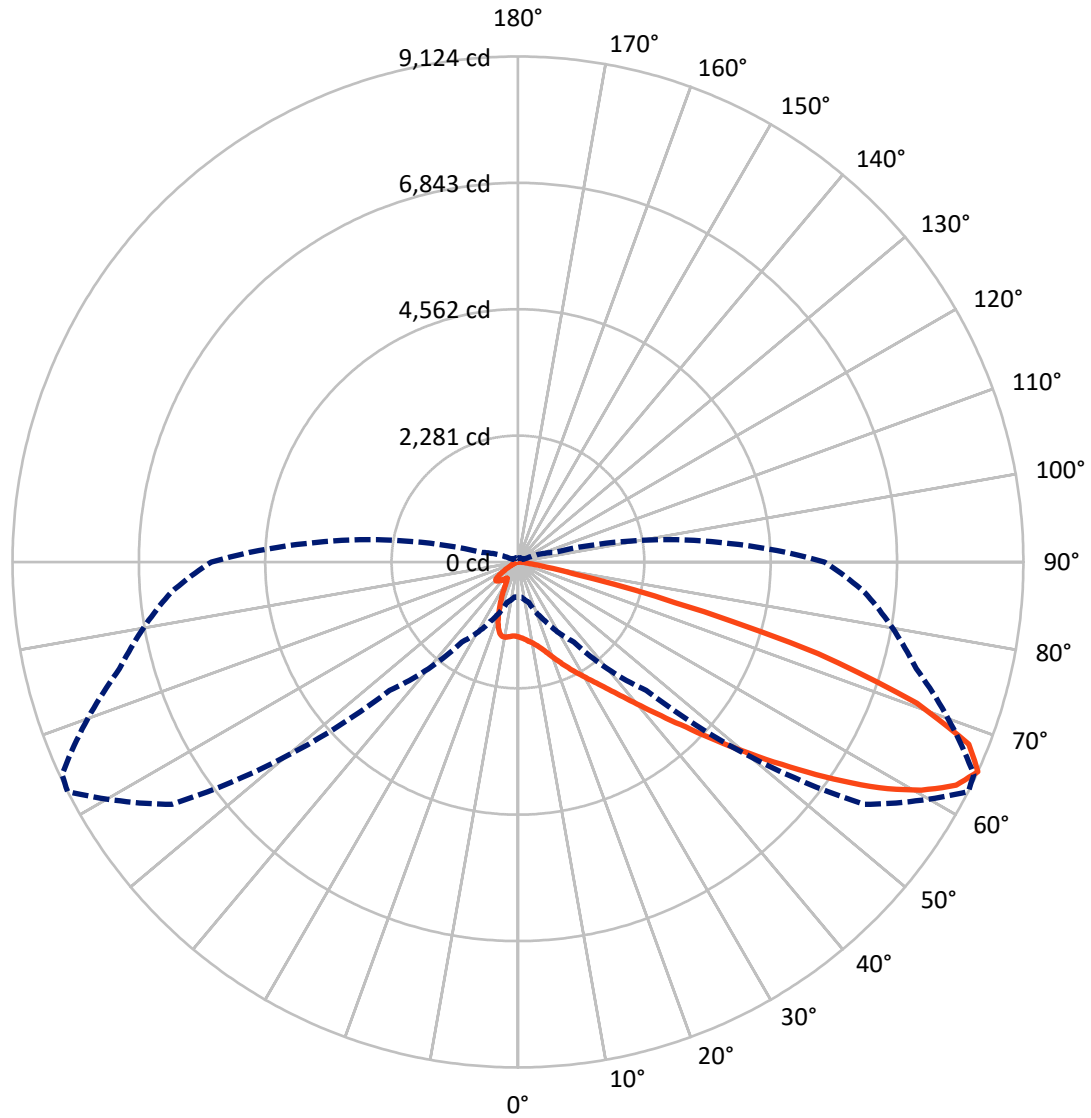
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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
<b>House Side</b>	Lumens	1609.3	0.0	1609.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	9338.7	0.0	9338.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	10948.0	0.0	10948.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.3	1.2
10°-20°	353.2	3.2
20°-30°	615.1	5.6
30°-40°	1108.6	10.1
40°-50°	2198.7	20.1
50°-60°	2995.0	27.4
60°-70°	2390.6	21.8
70°-80°	1081.8	9.9
80°-90°	77.8	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°	10948.0	100.0
0°-180°	10948.0	100.0



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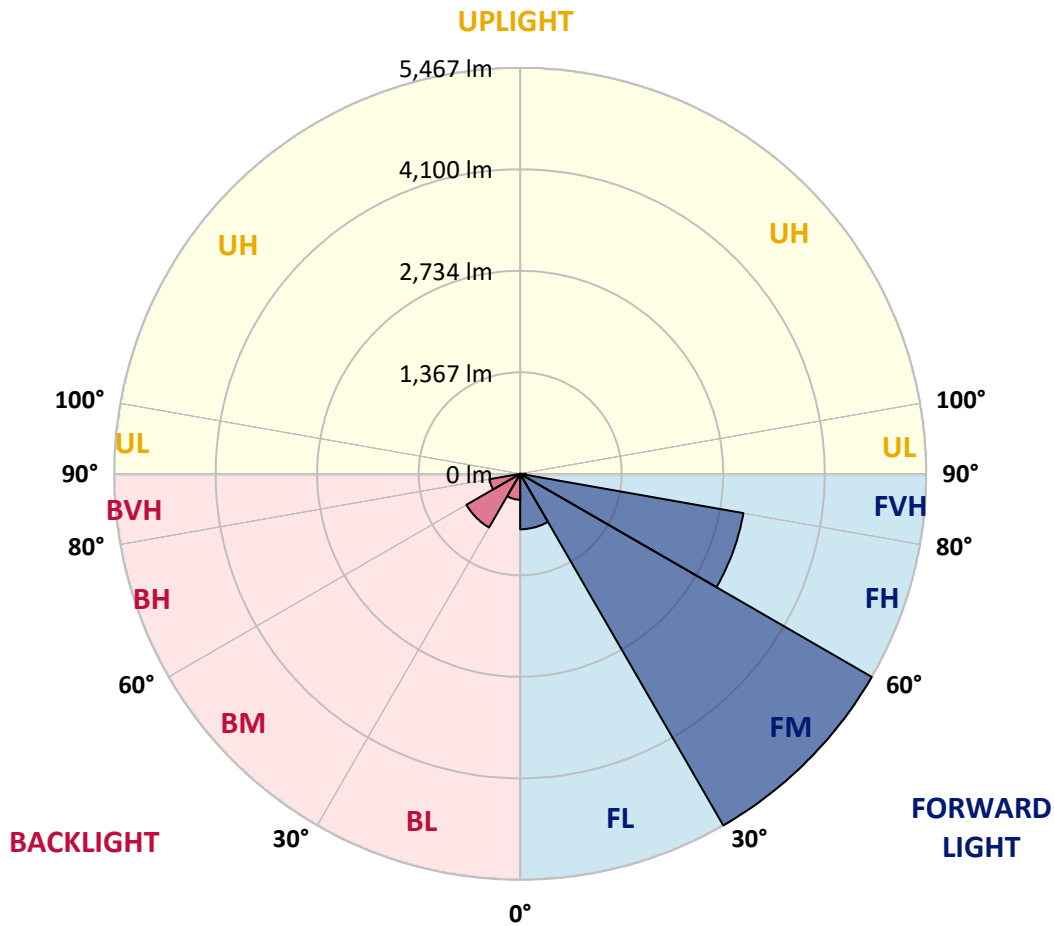
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	747.3	6.8			
FM (30°-60°)	5467.2	49.9			
FH (60°-80°)	3052.3	27.9			G2/5000
FVH (80°-90°)	72.0	0.7			G1/100
BL (0°-30°)	348.3	3.2	B1/500		
BM (30°-60°)	835.1	7.6	B1/1000		
BH (60°-80°)	420.1	3.8	B1/500		G1/500
BVH (80°-90°)	5.8	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°	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2
2.5°	1382.8	1379.1	1384.3	1382.1	1380.6	1377.6	1376.0	1374.5	1371.5	1369.3
5°	1386.6	1384.3	1389.6	1394.1	1398.6	1403.2	1405.4	1408.4	1405.4	1399.4
7.5°	1355.0	1353.4	1364.7	1378.3	1398.6	1416.0	1434.8	1445.3	1446.1	1443.8
10°	1352.7	1348.9	1360.2	1376.8	1403.2	1434.0	1467.2	1489.8	1492.8	1502.6
12.5°	1388.1	1384.3	1400.1	1418.2	1445.3	1477.7	1518.4	1550.0	1554.5	1568.1
15°	1447.6	1442.3	1460.4	1483.7	1518.4	1555.3	1598.2	1626.9	1630.6	1647.2
17.5°	1516.9	1511.6	1532.7	1557.6	1595.2	1645.7	1695.4	1727.0	1731.5	1742.1
20°	1605.8	1599.0	1615.6	1638.1	1678.1	1738.3	1797.8	1843.0	1842.3	1842.3
22.5°	1708.9	1698.4	1712.7	1730.8	1768.4	1841.5	1920.6	1974.1	1974.1	1953.0
25°	1819.7	1809.1	1824.9	1841.5	1874.6	1957.5	2050.1	2116.4	2119.4	2083.3
27.5°	1958.2	1944.7	1956.7	1976.3	1995.9	2080.3	2190.2	2267.0	2268.6	2212.8
30°	2224.9	2186.5	2148.8	2127.7	2136.7	2220.4	2337.8	2423.0	2430.5	2353.7
32.5°	2712.9	2705.4	2572.8	2399.6	2309.2	2371.0	2502.8	2605.2	2609.7	2511.1
35°	3471.4	3462.3	3249.2	2919.3	2624.8	2572.8	2703.1	2824.4	2821.4	2709.9
37.5°	4376.7	4368.4	4087.5	3646.1	3169.3	2877.9	2961.5	3088.8	3107.6	2961.5
40°	5150.2	5119.3	4941.6	4516.0	3892.4	3384.0	3329.0	3413.4	3433.0	3259.7
42.5°	5736.2	5709.8	5619.4	5353.5	4767.6	4132.7	3762.1	3794.5	3816.3	3608.4
45°	6039.7	6033.7	6069.8	6045.0	5659.3	5051.5	4381.2	4246.4	4254.7	3994.8
47.5°	6082.6	6079.6	6244.5	6478.0	6426.1	6087.9	5175.8	4809.8	4780.4	4430.9
50°	5829.5	5823.5	6139.9	6577.4	6938.2	6958.6	6078.1	5444.7	5379.9	4882.1
52.5°	5021.4	5019.9	5539.6	6267.9	7118.2	7720.8	6969.9	6142.1	6033.7	5359.6
55°	3863.8	3891.6	4487.4	5348.3	6789.8	8087.6	7770.5	6916.4	6749.9	5840.1
57.5°	2737.0	2777.7	3366.7	4133.4	5771.6	7870.6	8312.0	7692.1	7512.9	6319.1
60°	1470.2	1506.3	2096.1	3011.2	4293.8	7061.7	8597.5	8365.5	8196.0	6774.0
62.5°	875.9	888.0	1132.0	1943.9	2904.2	5395.0	8476.2	8878.4	8739.1	7155.9
65°	628.9	631.2	753.9	1187.0	1763.2	3277.8	7625.9	9123.9	9081.0	7443.6
67.5°	529.5	528.0	579.2	788.6	1201.3	1641.9	5844.6	8776.7	8959.0	7625.9
70°	454.2	456.4	516.7	577.7	903.1	929.4	2905.7	7641.7	8030.3	7674.1
72.5°	338.2	345.7	401.4	526.5	681.6	639.4	1003.2	5666.1	6368.8	7230.4
75°	238.8	242.5	282.4	442.9	508.4	465.5	512.2	2929.1	3829.9	5543.3
77.5°	183.8	190.6	213.9	309.6	500.9	326.9	313.3	1013.8	1557.6	3348.6
80°	99.4	111.5	154.4	223.7	351.7	231.2	155.2	403.7	528.0	1565.8
82.5°	51.2	57.2	107.7	161.2	200.3	201.9	76.8	168.0	217.7	483.5
85°	20.3	24.9	72.3	88.9	103.2	99.4	34.6	67.8	78.3	134.1
87.5°	4.5	7.5	26.4	20.3	19.6	21.1	8.3	15.8	15.1	15.8
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°
1351.2	0°	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2
1360.2	2.5°	1359.5	1356.5	1348.2	1339.1	1328.6	1322.6	1318.8	1318.1	1312.8	1309.0
1390.4	5°	1382.1	1379.1	1363.2	1344.4	1324.1	1308.3	1293.2	1279.6	1260.1	1256.3
1434.0	7.5°	1427.3	1419.0	1393.4	1367.8	1329.3	1283.4	1227.7	1163.7	1106.4	1089.1
1492.0	10°	1483.0	1471.7	1439.3	1394.1	1309.0	1184.0	1049.2	924.1	824.7	796.9
1560.6	12.5°	1546.3	1536.5	1493.5	1409.9	1223.9	997.2	790.8	635.7	539.3	515.2
1633.6	15°	1621.6	1607.3	1547.8	1385.8	1071.8	757.7	543.0	451.1	416.5	412.0
1717.2	17.5°	1701.4	1678.1	1596.0	1299.2	866.9	538.5	419.5	393.2	378.1	373.6
1801.6	20°	1774.5	1744.3	1624.6	1168.2	647.7	419.5	375.8	358.5	345.0	339.7
1885.9	22.5°	1847.5	1804.6	1624.6	989.7	485.8	372.1	345.0	329.1	313.3	306.5
1976.3	25°	1923.6	1866.4	1596.0	790.8	390.9	341.2	315.6	298.3	284.7	276.4
2062.2	27.5°	1997.4	1918.3	1530.4	602.5	348.0	314.1	288.5	271.9	259.1	253.1
2155.6	30°	2067.5	1969.5	1438.6	457.2	320.1	287.7	263.6	249.3	236.5	230.5
2276.8	32.5°	2162.4	2034.3	1340.6	375.1	296.0	262.9	241.0	227.5	216.2	211.6
2434.3	35°	2294.2	2130.0	1256.3	368.3	275.7	242.5	220.7	207.9	196.6	192.8
2637.6	37.5°	2480.9	2284.4	1211.9	413.5	259.1	224.4	204.1	190.6	180.0	177.0
2895.9	40°	2711.4	2493.8	1236.0	458.7	247.8	208.6	189.0	175.5	166.5	162.7
3192.7	42.5°	2984.8	2752.1	1369.3	493.3	240.3	195.1	174.7	159.7	153.6	152.1
3529.4	45°	3298.9	3036.0	1573.4	530.2	228.2	182.3	160.4	149.1	144.6	143.9
3895.4	47.5°	3655.9	3347.8	1809.9	576.2	216.2	170.2	149.1	141.6	137.8	136.3
4277.3	50°	4009.9	3661.9	2053.1	601.8	206.4	158.9	140.1	134.1	131.1	130.3
4681.0	52.5°	4380.4	3985.0	2249.7	577.7	198.1	149.9	132.6	128.0	125.0	124.3
5053.0	55°	4733.7	4246.4	2283.6	490.3	181.5	140.8	124.3	122.0	118.2	118.2
5430.4	57.5°	5038.0	4377.4	2044.1	360.0	164.9	127.3	116.0	113.7	110.7	110.0
5770.8	60°	5317.4	4339.8	1577.9	242.5	146.9	113.7	105.4	103.9	100.9	97.2
6066.8	62.5°	5474.8	4174.1	1079.3	158.2	128.8	99.4	93.4	92.6	85.9	78.3
6286.0	65°	5534.3	3833.6	673.3	115.2	107.7	85.1	80.6	79.1	69.3	61.0
6410.2	67.5°	5482.3	3273.3	339.7	91.1	85.1	70.8	66.3	66.3	59.5	52.0
6402.7	70°	5274.5	2453.8	143.1	73.1	65.5	54.2	54.2	57.2	50.5	42.2
6070.6	72.5°	4823.3	1651.0	76.1	55.7	49.0	38.4	44.4	46.7	39.9	31.6
4968.7	75°	3834.4	1007.0	52.7	41.4	30.9	27.1	33.9	35.4	27.1	21.1
3406.6	77.5°	2622.5	578.4	35.4	26.4	19.6	15.8	23.3	21.8	14.3	9.8
1313.5	80°	1151.6	241.0	20.3	12.1	7.5	6.0	8.3	6.0	4.5	3.0
180.0	82.5°	134.8	56.5	7.5	4.5	3.0	1.5	0.8	0.0	0.0	0.0
55.0	85°	27.9	6.8	3.8	1.5	0.8	0.0	0.0	0.0	0.0	0.0
9.8	87.5°	5.3	1.5	0.8	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>
1351.2
1312.8
1254.8
1080.8
786.3
508.4
407.5
371.3
336.7
302.8
273.4
253.1
231.2
211.6
192.8
176.2
161.9
152.1
143.1
136.3
130.3
124.3
117.5
109.2
96.4
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