

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: P947680

Luminaire Tested: **GALN-SB2D-950-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947680  
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-SB2D-950-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

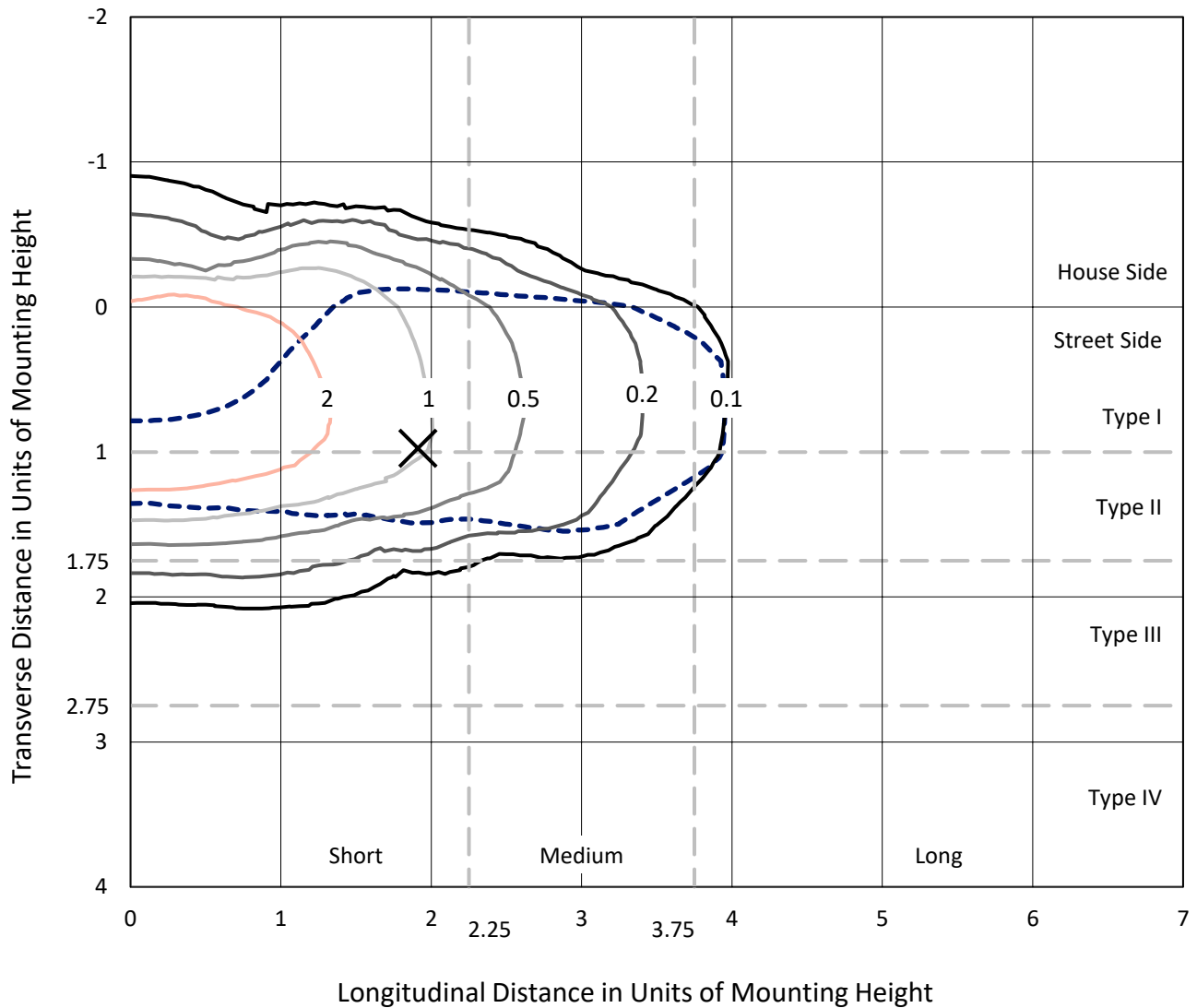
Lumens per Lamp: N/A  
Luminaire Lumens: 10819 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

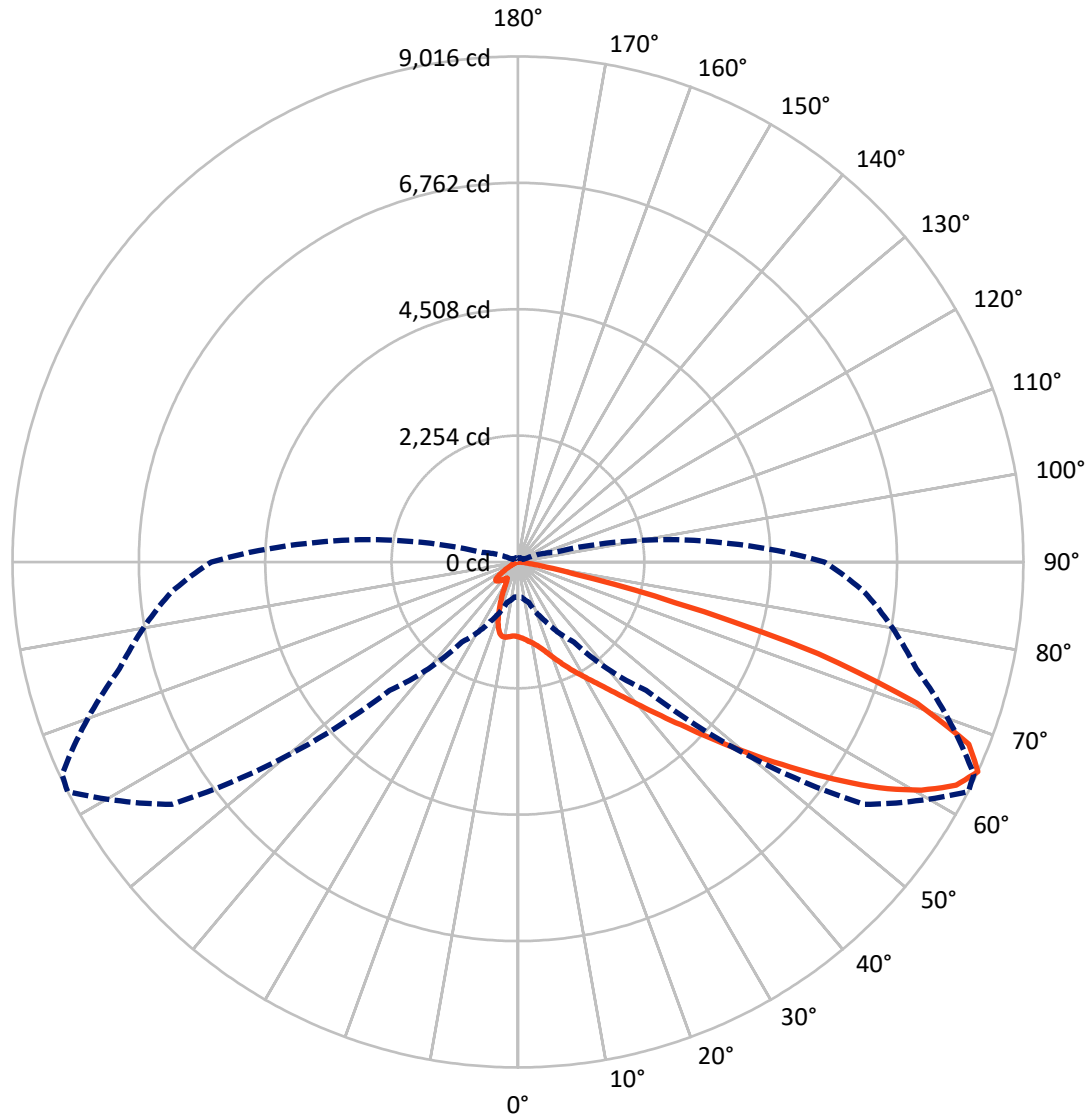
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1590.3	0.0	1590.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	9228.7	0.0	9228.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	10819.0	0.0	10819.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.8	1.2
10°-20°	349.1	3.2
20°-30°	607.8	5.6
30°-40°	1095.5	10.1
40°-50°	2172.8	20.1
50°-60°	2959.7	27.4
60°-70°	2362.4	21.8
70°-80°	1069.0	9.9
80°-90°	76.8	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°	10819.0	100.0
0°-180°	10819.0	100.0

**Coefficient of Utilization**



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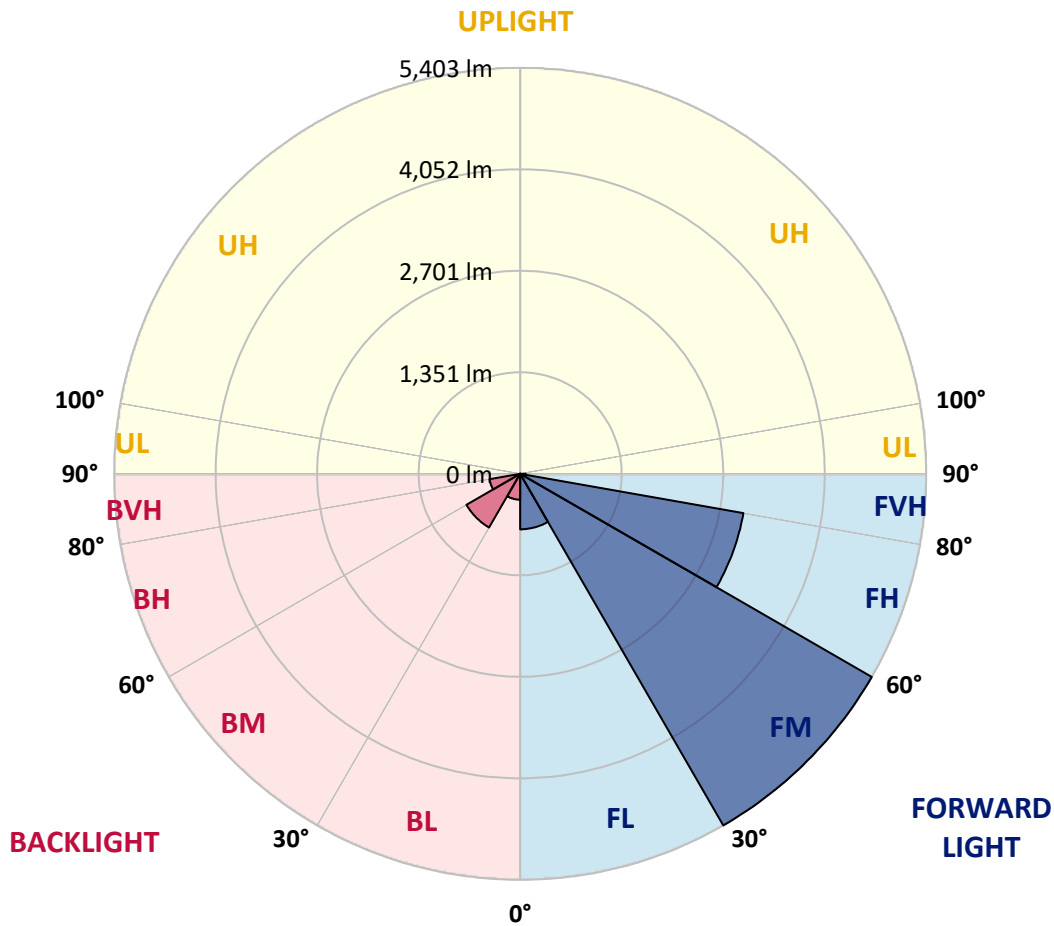
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.5	6.8			
FM (30°-60°)	5402.7	49.9			
FH (60°-80°)	3016.3	27.9			G2/5000
FVH (80°-90°)	71.1	0.7			G1/100
BL (0°-30°)	344.2	3.2	B1/500		
BM (30°-60°)	825.3	7.6	B1/1000		
BH (60°-80°)	415.2	3.8	B1/500		G1/500
BVH (80°-90°)	5.7	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°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1366.5	1362.8	1368.0	1365.8	1364.3	1361.3	1359.8	1358.3	1355.4	1353.1
5°	1370.3	1368.0	1373.2	1377.7	1382.2	1386.6	1388.9	1391.8	1388.9	1382.9
7.5°	1339.0	1337.5	1348.7	1362.1	1382.2	1399.3	1417.9	1428.3	1429.1	1426.8
10°	1336.8	1333.0	1344.2	1360.6	1386.6	1417.1	1449.9	1472.2	1475.2	1484.9
12.5°	1371.7	1368.0	1383.6	1401.5	1428.3	1460.3	1500.5	1531.8	1536.2	1549.6
15°	1430.5	1425.3	1443.2	1466.3	1500.5	1537.0	1579.4	1607.7	1611.4	1627.8
17.5°	1499.0	1493.8	1514.6	1539.2	1576.4	1626.3	1675.4	1706.7	1711.1	1721.6
20°	1586.8	1580.1	1596.5	1618.8	1658.3	1717.8	1776.6	1821.3	1820.6	1820.6
22.5°	1688.8	1678.4	1692.5	1710.4	1747.6	1819.8	1898.0	1950.8	1950.8	1930.0
25°	1798.2	1787.8	1803.4	1819.8	1852.6	1934.4	2026.0	2091.5	2094.5	2058.7
27.5°	1935.2	1921.8	1933.7	1953.0	1972.4	2055.7	2164.4	2240.3	2241.8	2186.7
30°	2198.7	2160.7	2123.5	2102.6	2111.6	2194.2	2310.3	2394.4	2401.8	2325.9
32.5°	2681.0	2673.5	2542.5	2371.3	2282.0	2343.0	2473.3	2574.5	2579.0	2481.5
35°	3430.5	3421.5	3210.9	2884.9	2593.9	2542.5	2671.3	2791.1	2788.1	2678.0
37.5°	4325.1	4316.9	4039.3	3603.1	3132.0	2844.0	2926.6	3052.4	3071.0	2926.6
40°	5089.5	5059.0	4883.3	4462.8	3846.5	3344.1	3289.8	3373.2	3392.5	3221.3
42.5°	5668.6	5642.5	5553.2	5290.5	4711.4	4084.0	3717.8	3749.8	3771.4	3565.9
45°	5968.5	5962.6	5998.3	5973.7	5592.6	4992.0	4329.6	4196.3	4204.5	3947.8
47.5°	6010.9	6008.0	6171.0	6401.7	6350.3	6016.2	5114.8	4753.1	4724.1	4378.7
50°	5760.9	5754.9	6067.5	6499.9	6856.5	6876.6	6006.5	5380.5	5316.5	4824.5
52.5°	4962.2	4960.7	5474.3	6194.0	7034.4	7629.8	6887.7	6069.7	5962.6	5296.4
55°	3818.2	3845.8	4434.5	5285.3	6709.8	7992.3	7678.9	6834.9	6670.4	5771.3
57.5°	2704.8	2745.0	3327.0	4084.7	5703.5	7777.9	8214.1	7601.5	7424.4	6244.7
60°	1452.9	1488.6	2071.4	2975.7	4243.2	6978.5	8496.2	8266.9	8099.4	6694.2
62.5°	865.6	877.5	1118.7	1921.0	2870.0	5331.4	8376.3	8773.8	8636.1	7071.6
65°	621.5	623.7	745.0	1173.0	1742.4	3239.2	7536.0	9016.4	8974.0	7355.9
67.5°	523.2	521.8	572.4	779.3	1187.2	1622.6	5775.7	8673.3	8853.4	7536.0
70°	448.8	451.0	510.6	570.9	892.4	918.5	2871.5	7551.6	7935.7	7583.6
72.5°	334.2	341.6	396.7	520.3	673.6	631.9	991.4	5599.3	6293.8	7145.3
75°	235.9	239.7	279.1	437.6	502.4	460.0	506.1	2894.6	3784.8	5478.0
77.5°	181.6	188.3	211.4	305.9	495.0	323.0	309.6	1001.8	1539.2	3309.1
80°	98.2	110.2	152.6	221.1	347.6	228.5	153.3	398.9	521.8	1547.4
82.5°	50.6	56.6	106.4	159.3	198.0	199.5	75.9	166.0	215.1	477.8
85°	20.1	24.6	71.5	87.8	102.0	98.2	34.2	67.0	77.4	132.5
87.5°	4.5	7.4	26.1	20.1	19.4	20.8	8.2	15.6	14.9	15.6
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°
1335.3	0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
1344.2	2.5°	1343.5	1340.5	1332.3	1323.4	1312.9	1307.0	1303.3	1302.5	1297.3	1293.6
1374.0	5°	1365.8	1362.8	1347.2	1328.6	1308.5	1292.8	1278.0	1264.6	1245.2	1241.5
1417.1	7.5°	1410.4	1402.3	1376.9	1351.6	1313.7	1268.3	1213.2	1149.9	1093.4	1076.3
1474.5	10°	1465.5	1454.4	1422.4	1377.7	1293.6	1170.0	1036.8	913.3	815.0	787.5
1542.2	12.5°	1528.0	1518.4	1475.9	1393.3	1209.5	985.4	781.5	628.2	532.9	509.1
1614.4	15°	1602.5	1588.3	1529.5	1369.5	1059.1	748.8	536.6	445.8	411.6	407.1
1697.0	17.5°	1681.4	1658.3	1577.2	1283.9	856.7	532.2	414.6	388.5	373.6	369.2
1780.4	20°	1753.6	1723.8	1605.4	1154.4	640.1	414.6	371.4	354.3	340.9	335.7
1863.7	22.5°	1825.8	1783.3	1605.4	978.0	480.1	367.7	340.9	325.3	309.6	302.9
1953.0	25°	1900.9	1844.4	1577.2	781.5	386.3	337.2	311.9	294.7	281.3	273.2
2037.9	27.5°	1973.9	1895.7	1512.4	595.4	343.9	310.4	285.1	268.7	256.0	250.1
2130.2	30°	2043.1	1946.3	1421.6	451.8	316.3	284.3	260.5	246.4	233.7	227.8
2250.0	32.5°	2136.9	2010.3	1324.8	370.7	292.5	259.8	238.2	224.8	213.6	209.1
2405.6	35°	2267.1	2104.9	1241.5	364.0	272.4	239.7	218.1	205.4	194.3	190.5
2606.5	37.5°	2451.7	2257.5	1197.6	408.6	256.0	221.8	201.7	188.3	177.9	174.9
2861.8	40°	2679.5	2464.4	1221.4	453.3	244.9	206.2	186.8	173.4	164.5	160.8
3155.1	42.5°	2949.6	2719.7	1353.1	487.5	237.4	192.8	172.7	157.8	151.8	150.3
3487.8	45°	3260.0	3000.3	1554.8	524.0	225.5	180.1	158.5	147.4	142.9	142.2
3849.5	47.5°	3612.8	3308.4	1788.5	569.4	213.6	168.2	147.4	139.9	136.2	134.7
4226.9	50°	3962.6	3618.8	2029.0	594.7	203.9	157.0	138.4	132.5	129.5	128.8
4625.8	52.5°	4328.8	3938.1	2223.2	570.9	195.8	148.1	131.0	126.5	123.6	122.8
4993.5	55°	4677.9	4196.3	2256.7	484.5	179.4	139.2	122.8	120.6	116.9	116.9
5366.4	57.5°	4978.6	4325.9	2020.0	355.8	163.0	125.8	114.6	112.4	109.4	108.7
5702.8	60°	5254.7	4288.6	1559.3	239.7	145.1	112.4	104.2	102.7	99.7	96.0
5995.3	62.5°	5410.3	4124.9	1066.6	156.3	127.3	98.2	92.3	91.5	84.8	77.4
6211.9	65°	5469.1	3788.5	665.4	113.9	106.4	84.1	79.6	78.2	68.5	60.3
6334.7	67.5°	5417.7	3234.7	335.7	90.1	84.1	70.0	65.5	65.5	58.8	51.4
6327.3	70°	5212.3	2424.9	141.4	72.2	64.8	53.6	53.6	56.6	49.9	41.7
5999.0	72.5°	4766.5	1631.5	75.2	55.1	48.4	38.0	43.9	46.1	39.4	31.3
4910.1	75°	3789.2	995.1	52.1	40.9	30.5	26.8	33.5	35.0	26.8	20.8
3366.5	77.5°	2591.6	571.6	35.0	26.1	19.4	15.6	23.1	21.6	14.1	9.7
1298.1	80°	1138.0	238.2	20.1	11.9	7.4	6.0	8.2	6.0	4.5	3.0
177.9	82.5°	133.2	55.8	7.4	4.5	3.0	1.5	0.7	0.0	0.0	0.0
54.3	85°	27.5	6.7	3.7	1.5	0.7	0.0	0.0	0.0	0.0	0.0
9.7	87.5°	5.2	1.5	0.7	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>
1335.3
1297.3
1240.0
1068.1
777.0
502.4
402.7
366.9
332.7
299.2
270.2
250.1
228.5
209.1
190.5
174.2
160.0
150.3
141.4
134.7
128.8
122.8
116.1
107.9
95.3
75.9
59.5
50.6
40.9
31.3
20.1
10.4
3.0
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