

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: P948312

Luminaire Tested: **GALN-SB3B-927-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3B-927-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

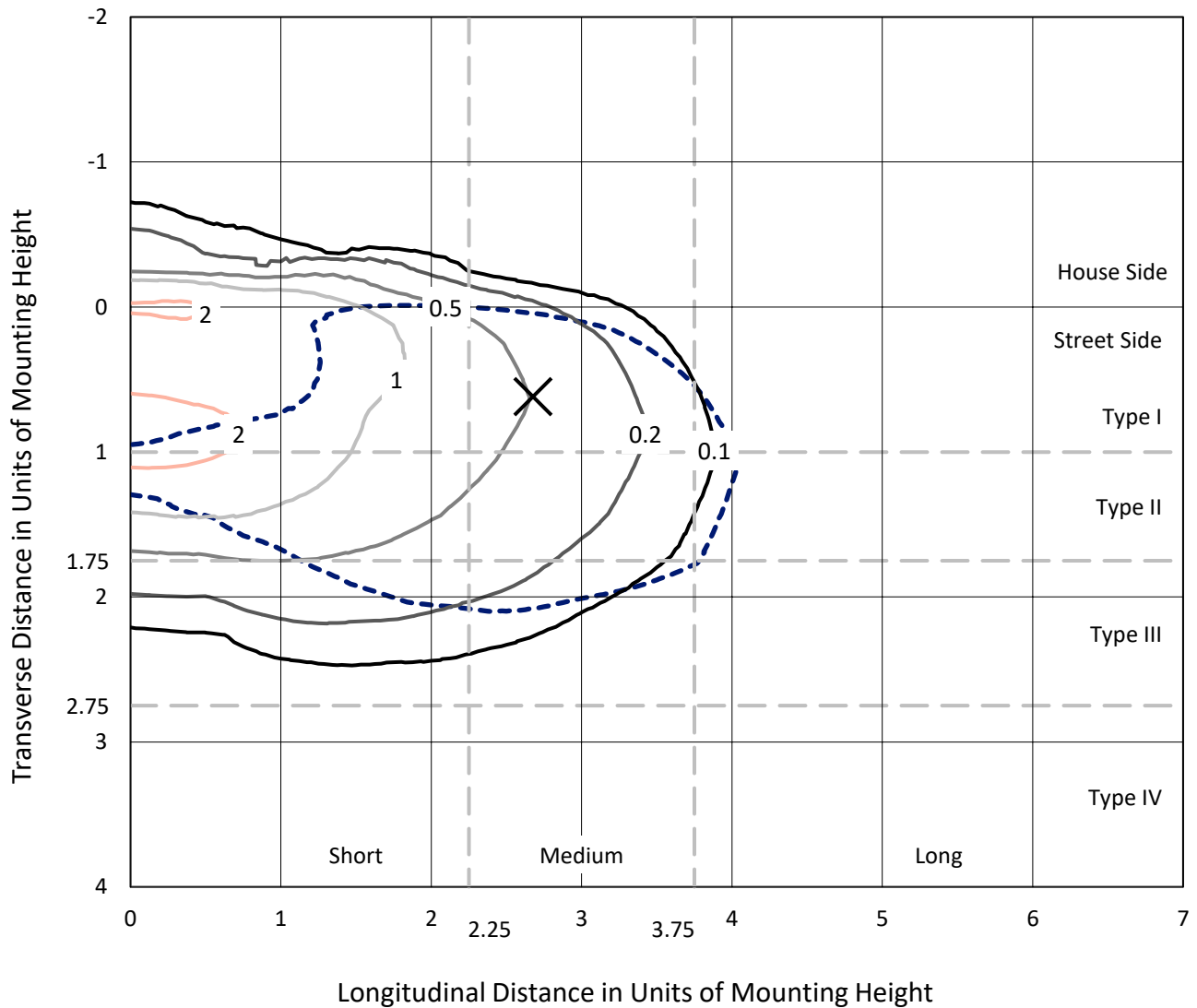
Lumens per Lamp: N/A  
Luminaire Lumens: 8562 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

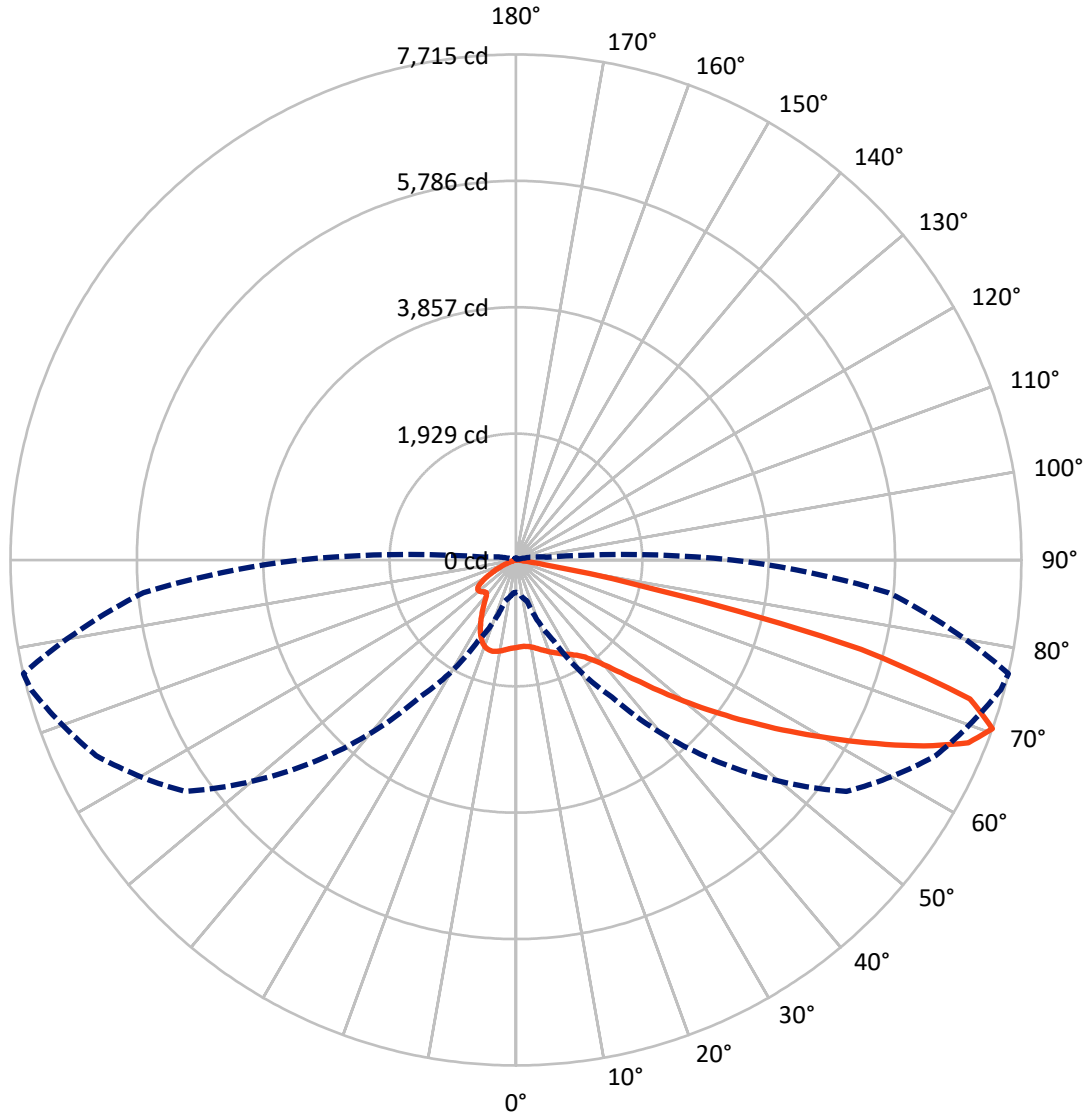
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	902.6	0.0	902.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	7659.5	0.0	7659.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	8562.0	0.0	8562.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.1	1.3
10°-20°	273.2	3.2
20°-30°	422.6	4.9
30°-40°	766.9	9.0
40°-50°	1447.6	16.9
50°-60°	2091.6	24.4
60°-70°	2226.4	26.0
70°-80°	1179.9	13.8
80°-90°	38.7	0.5
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°	8562.0	100.0
0°-180°	8562.0	100.0

**Coefficient of Utilization**



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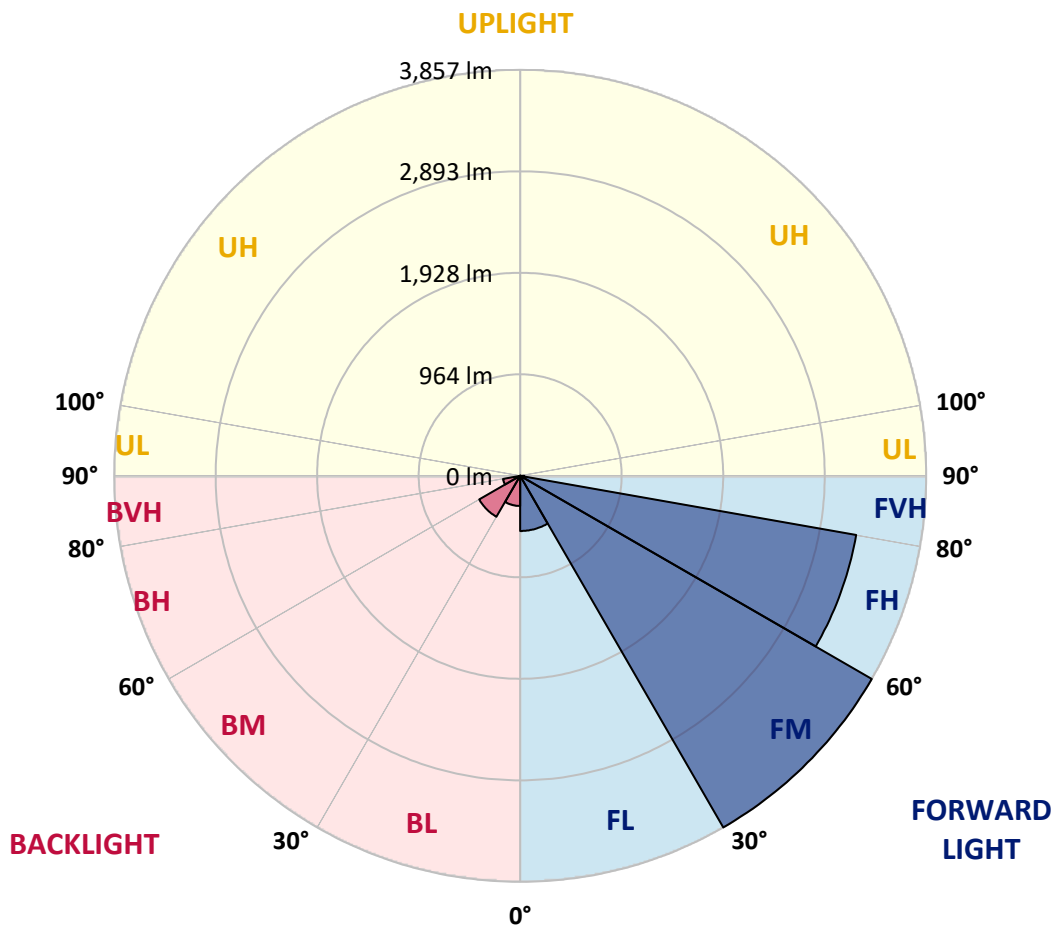
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.2	6.1			
FM (30°-60°)	3856.7	45.0			
FH (60°-80°)	3240.8	37.9			G2/5000
FVH (80°-90°)	37.7	0.4			G1/100
BL (0°-30°)	286.8	3.3	B1/500		
BM (30°-60°)	449.3	5.2	B1/1000		
BH (60°-80°)	165.5	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5
2.5°	1253.9	1265.2	1263.6	1271.2	1273.9	1284.7	1295.5	1310.1	1326.3	1325.8
5°	1183.0	1194.4	1197.1	1207.4	1220.3	1237.1	1259.3	1288.5	1318.8	1323.6
7.5°	1099.2	1111.1	1118.2	1138.7	1162.5	1197.1	1233.3	1276.0	1326.3	1333.4
10°	1015.4	1026.2	1035.4	1064.6	1102.5	1153.8	1212.8	1274.4	1342.0	1352.3
12.5°	963.5	973.8	984.1	1009.5	1056.5	1119.2	1199.3	1282.0	1368.0	1382.6
15°	945.1	954.3	962.4	985.1	1028.9	1100.3	1196.6	1297.7	1400.9	1420.4
17.5°	947.8	952.7	958.1	975.4	1018.1	1091.7	1201.4	1324.7	1439.9	1457.2
20°	963.5	966.2	966.8	978.7	1016.5	1090.6	1211.2	1350.7	1476.6	1499.9
22.5°	983.5	984.6	983.5	991.6	1026.8	1098.7	1224.1	1382.0	1517.7	1539.4
25°	1077.1	1056.5	1030.6	1014.9	1044.1	1114.4	1243.6	1424.2	1562.6	1583.7
27.5°	1367.4	1308.5	1215.5	1111.1	1079.8	1137.1	1270.6	1466.9	1608.0	1627.0
30°	1838.9	1761.6	1603.7	1368.5	1194.4	1184.7	1305.8	1509.6	1656.1	1676.7
32.5°	2311.5	2292.5	2110.3	1784.8	1452.3	1290.6	1364.2	1567.5	1720.0	1736.2
35°	2789.4	2751.1	2601.8	2280.1	1849.7	1506.4	1461.5	1643.2	1803.8	1822.1
37.5°	3155.5	3132.2	3039.8	2774.8	2321.2	1839.4	1628.0	1760.5	1925.4	1946.0
40°	3478.8	3468.0	3436.7	3262.0	2848.4	2275.2	1887.0	1942.2	2094.1	2118.4
42.5°	3733.0	3758.4	3776.2	3727.6	3391.8	2772.7	2235.2	2197.4	2329.3	2354.2
45°	3993.0	4001.7	4073.6	4143.9	3931.4	3292.8	2627.8	2496.4	2621.8	2652.7
47.5°	4160.1	4194.7	4321.2	4445.1	4385.0	3808.7	3049.5	2849.5	2960.8	3018.7
50°	4172.5	4238.0	4412.1	4627.8	4715.4	4299.6	3508.0	3251.7	3370.2	3434.0
52.5°	3965.5	4067.1	4336.9	4652.7	4893.8	4715.4	3982.2	3654.0	3806.0	3889.2
55°	3040.3	3173.3	4054.1	4517.5	4900.9	5030.6	4444.0	4073.1	4291.5	4385.6
57.5°	2648.9	2715.9	3187.4	4282.8	4770.6	5157.7	4861.4	4472.1	4819.8	4936.5
60°	2203.9	2292.0	2673.2	3899.0	4593.7	5170.1	5230.1	4986.8	5392.4	5523.7
62.5°	1497.7	1593.4	1972.5	3239.3	4352.1	5164.2	5532.4	5516.7	6028.8	6169.9
65°	927.8	987.9	1237.7	2645.1	4014.1	5170.7	5848.7	6160.1	6700.3	6843.6
67.5°	733.2	760.8	891.1	2030.9	3431.8	5024.7	6164.5	6765.2	7332.4	7445.9
70°	492.6	509.3	648.3	1361.5	2553.2	4351.0	6158.5	7069.1	7657.9	7714.6
72.5°	259.5	272.5	379.0	630.5	1542.1	3092.8	5191.2	6705.7	7334.0	7248.6
75°	129.8	151.4	255.2	320.1	658.6	1724.8	3223.6	5286.9	5772.5	5441.6
77.5°	98.4	119.0	210.9	210.9	229.3	580.7	1365.3	2883.5	2659.7	2214.7
80°	62.7	81.1	184.4	159.5	95.7	147.6	355.8	807.8	565.0	429.9
82.5°	36.8	53.0	153.6	105.4	53.5	54.6	100.6	171.9	146.5	114.1
85°	14.6	34.6	105.4	41.6	21.1	13.5	30.3	36.8	30.3	22.7
87.5°	0.0	8.1	18.4	0.0	1.6	1.1	2.2	2.7	2.7	2.2
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°
1335.5	0°	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5
1336.6	2.5°	1341.5	1342.5	1345.8	1346.3	1338.8	1329.0	1325.2	1323.6	1317.1	1316.6
1345.2	5°	1357.7	1362.6	1357.7	1343.6	1310.1	1263.1	1227.4	1198.2	1171.7	1163.6
1375.0	7.5°	1390.1	1395.0	1380.4	1325.2	1240.9	1147.4	1063.0	1003.5	950.0	930.0
1411.2	10°	1436.6	1443.1	1397.2	1285.8	1136.5	986.2	843.5	742.9	664.5	632.6
1460.4	12.5°	1495.0	1497.7	1406.3	1225.8	1000.8	786.2	584.0	476.4	406.6	380.6
1519.9	15°	1559.4	1555.6	1407.4	1144.1	815.9	555.8	381.2	313.1	284.9	276.3
1579.4	17.5°	1627.0	1611.3	1385.8	1026.2	613.1	380.1	282.8	266.6	261.7	259.5
1638.3	20°	1693.5	1658.3	1346.3	872.1	440.1	283.9	256.8	252.0	249.3	248.2
1697.8	22.5°	1754.0	1694.0	1278.7	693.2	319.6	250.9	242.8	238.4	233.6	231.4
1755.6	25°	1813.0	1714.5	1183.6	526.1	255.7	234.7	228.2	220.1	213.6	210.9
1817.8	27.5°	1870.3	1727.5	1064.6	389.3	228.2	219.5	207.6	196.3	191.4	190.3
1884.3	30°	1931.4	1731.8	929.5	290.4	211.4	200.6	183.3	170.3	167.6	168.2
1974.1	32.5°	2006.0	1738.3	793.2	237.9	197.4	177.9	157.3	143.8	141.7	143.8
2104.9	35°	2095.2	1751.3	661.8	219.0	184.9	154.6	132.5	121.1	119.0	120.6
2272.5	37.5°	2216.3	1772.4	539.1	215.2	174.6	135.2	111.4	102.2	102.2	102.7
2478.0	40°	2377.4	1828.6	429.3	212.5	169.2	120.6	94.1	90.3	91.9	93.0
2739.7	42.5°	2573.7	1948.1	355.2	209.2	163.3	114.1	85.4	83.8	86.5	87.6
3053.3	45°	2793.8	2099.5	329.3	203.8	157.9	118.4	81.6	79.5	82.7	83.3
3404.8	47.5°	3021.4	2247.7	326.0	197.9	152.5	124.9	80.6	75.7	79.5	80.0
3780.0	50°	3251.7	2344.5	329.3	188.7	143.8	124.9	81.1	71.9	75.2	76.8
4169.3	52.5°	3483.7	2388.8	327.1	168.7	128.7	117.3	81.1	68.7	71.9	73.0
4590.0	55°	3708.6	2380.1	294.1	139.0	109.2	103.8	78.9	66.0	68.1	68.7
4987.4	57.5°	3886.5	2259.6	233.0	108.1	88.7	86.5	71.9	62.7	64.3	63.8
5351.8	60°	3979.5	1994.6	166.5	83.3	69.7	68.1	63.3	58.4	59.5	56.8
5660.5	62.5°	3980.6	1644.3	111.4	66.0	55.7	54.1	54.1	52.4	51.4	46.0
5899.5	65°	3895.7	1255.5	74.1	52.4	44.9	42.2	45.4	44.9	41.1	33.5
5972.5	67.5°	3703.2	822.9	56.2	41.1	34.6	33.0	36.2	37.8	35.1	28.1
5706.5	70°	3307.4	479.1	46.5	31.9	26.0	24.3	29.2	32.4	29.2	22.7
4877.6	72.5°	2747.3	258.5	37.8	23.8	17.8	16.2	23.2	26.5	23.2	16.8
3129.5	75°	1782.7	138.4	29.2	15.7	9.2	10.3	17.3	19.5	16.2	10.8
918.6	77.5°	598.5	61.1	18.4	7.6	4.3	4.3	10.3	11.9	7.6	3.8
167.1	80°	133.6	25.4	7.6	3.2	1.6	1.6	2.2	2.2	1.1	0.0
51.4	82.5°	43.8	10.3	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
13.0	85°	16.8	3.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.3	87.5°	6.5	0.5	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>
1335.5
1317.7
1158.7
921.9
619.1
372.5
276.3
259.0
247.1
230.9
209.8
189.2
168.2
143.3
120.0
102.2
93.0
87.6
83.8
80.6
77.3
73.0
68.7
63.8
56.2
44.3
32.4
27.6
21.6
16.2
9.7
3.2
0.0
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