

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: P939857

Luminaire Tested: **GALN-SB2C-927-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939857  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2C-927-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

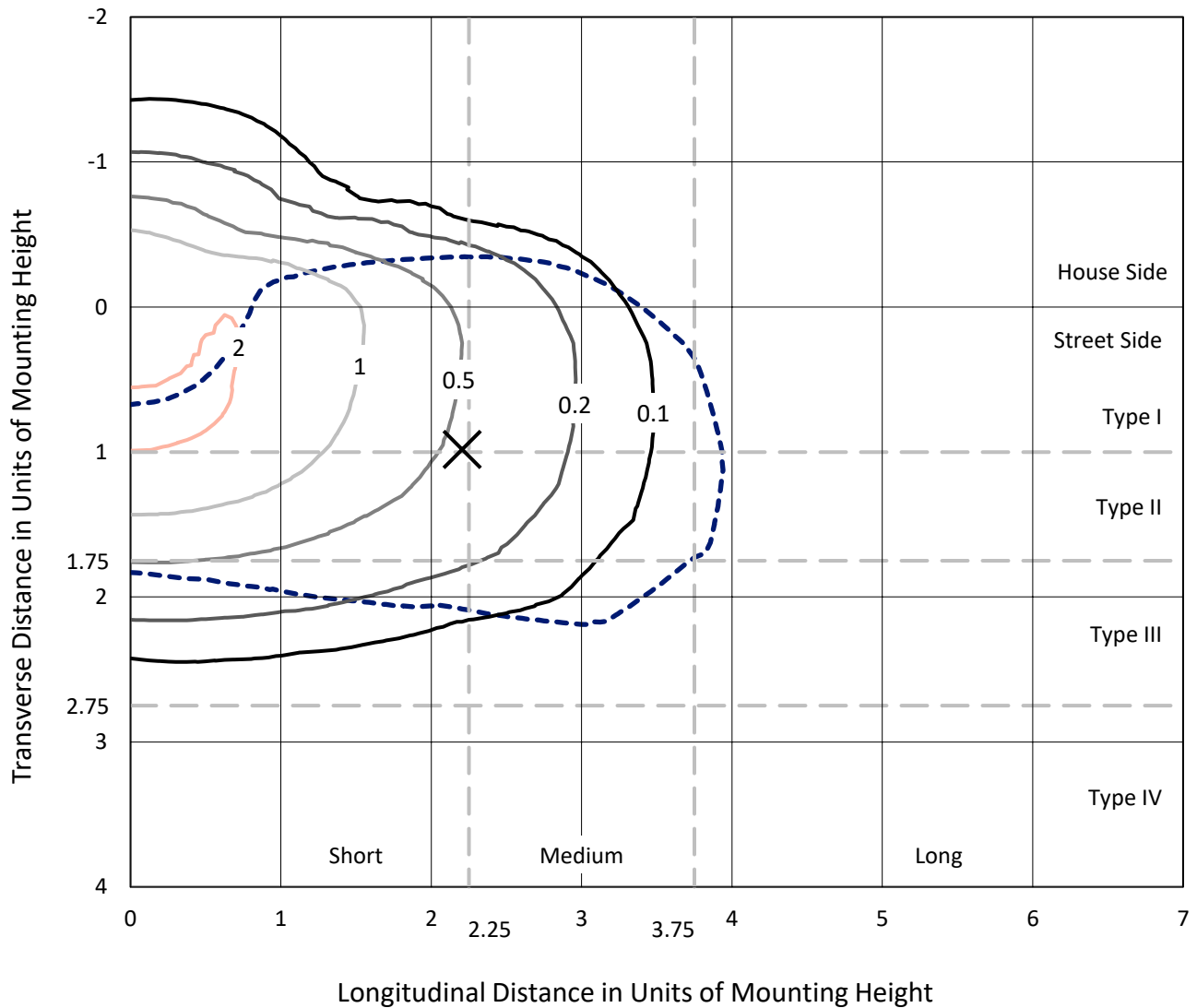
Lumens per Lamp: N/A  
Luminaire Lumens: 9123 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

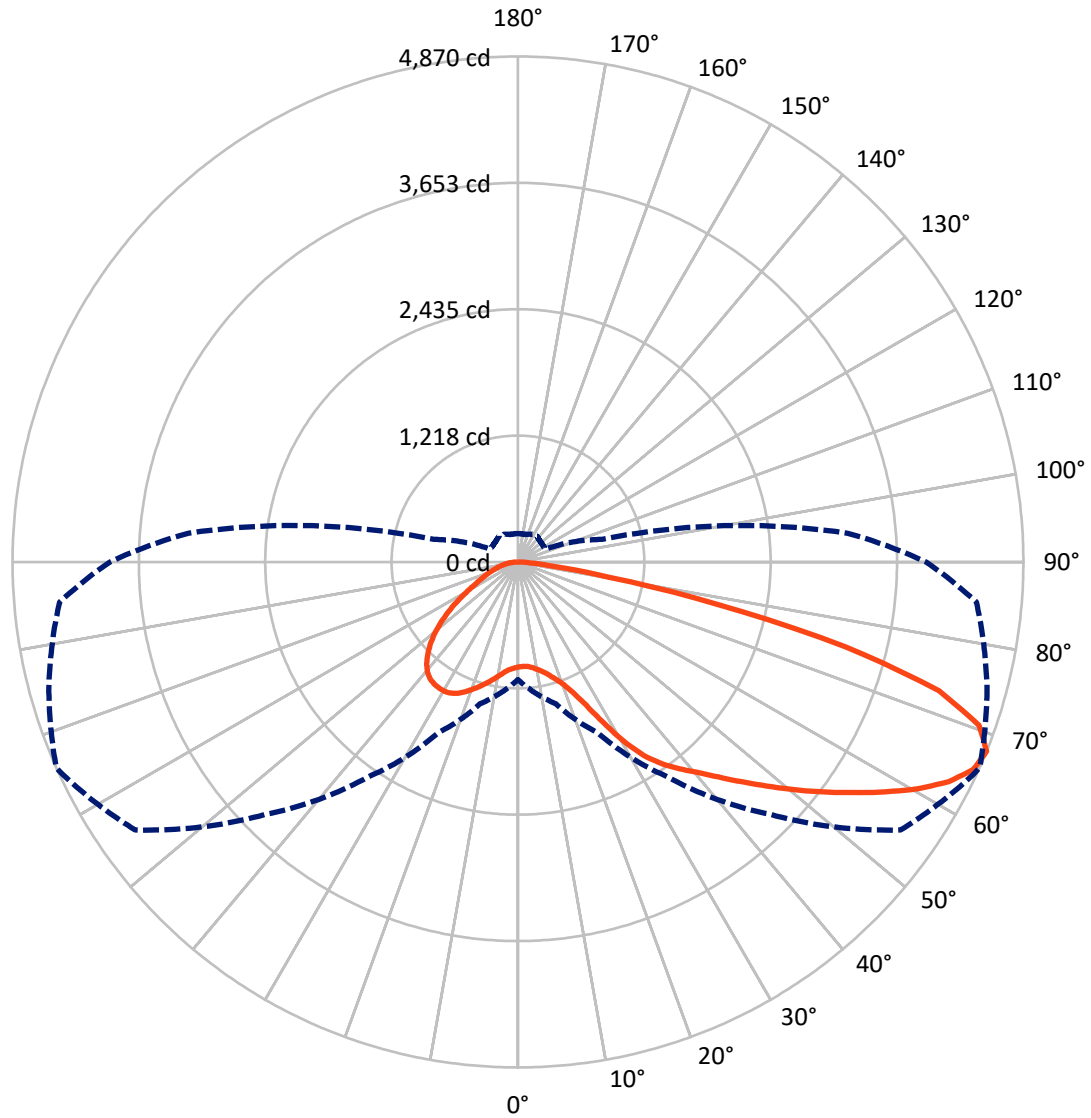
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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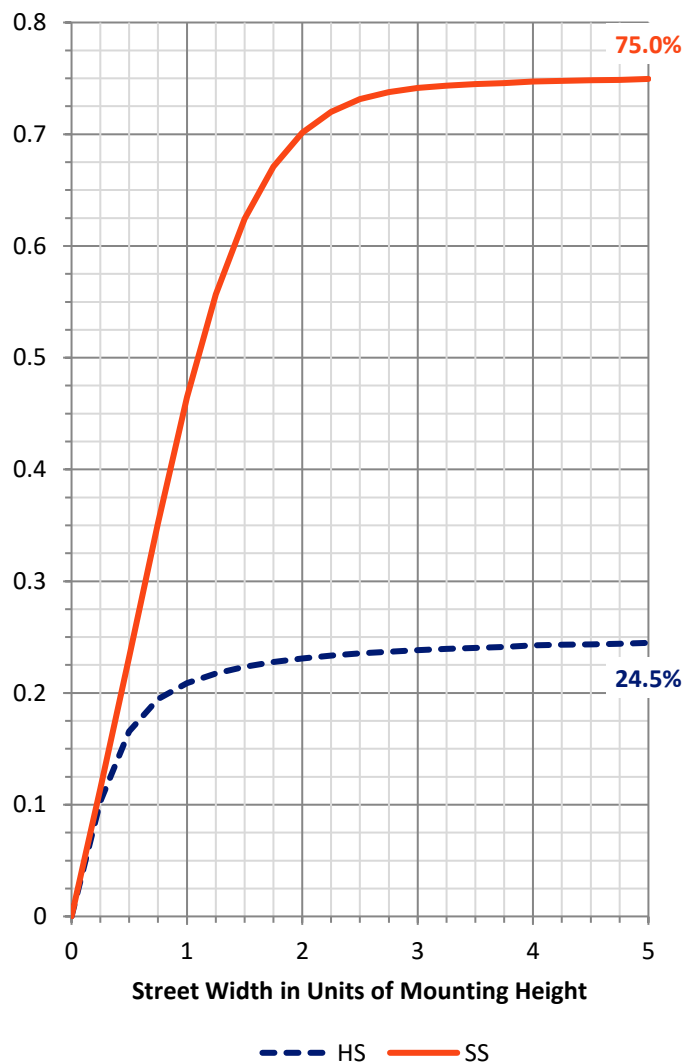
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2268.4	0.0	2268.4
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	6854.6	0.0	6854.6
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	9123.0	0.0	9123.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.3	1.1
10°-20°	331.4	3.6
20°-30°	638.9	7.0
30°-40°	1120.1	12.3
40°-50°	1665.3	18.3
50°-60°	2110.9	23.1
60°-70°	2065.5	22.6
70°-80°	985.2	10.8
80°-90°	105.3	1.2
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°	9123.0	100.0
0°-180°	9123.0	100.0

**Coefficient of Utilization**



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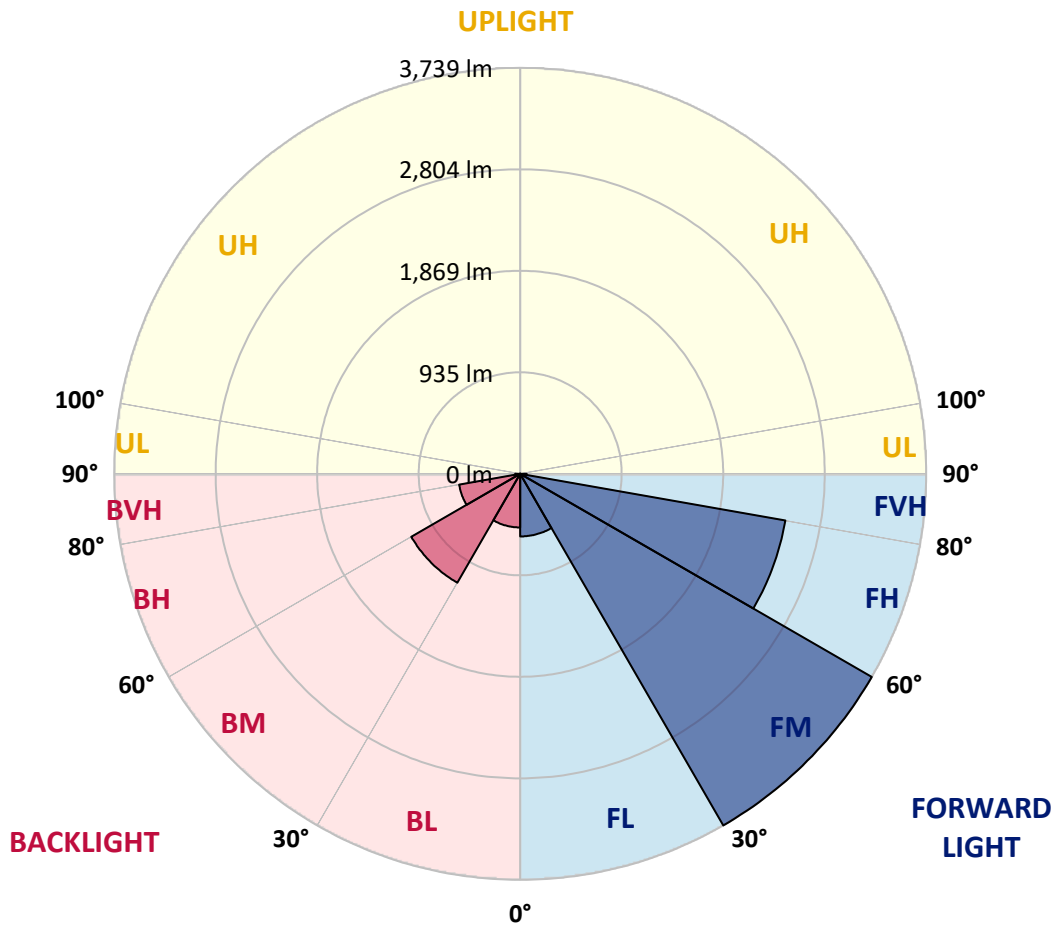
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.5	6.3			
FM (30°-60°)	3738.5	41.0			
FH (60°-80°)	2479.9	27.2			G2/5000
FVH (80°-90°)	59.7	0.7			G1/100
BL (0°-30°)	494.1	5.4	B1/500		
BM (30°-60°)	1157.8	12.7	B2/2500		
BH (60°-80°)	570.8	6.3	B2/1000		G2/1000
BVH (80°-90°)	45.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9
2.5°	1001.3	1007.1	1005.6	1003.2	1002.8	1003.7	1005.2	1006.6	1006.1	1008.5
5°	998.4	1004.2	1003.7	1003.7	1005.6	1009.5	1011.9	1014.3	1011.9	1014.7
7.5°	1000.4	1004.7	1006.6	1008.5	1013.3	1020.5	1026.2	1031.5	1028.6	1032.0
10°	1024.8	1028.2	1030.1	1030.1	1033.4	1041.6	1047.3	1056.9	1054.5	1059.8
12.5°	1069.4	1072.7	1072.7	1070.8	1073.2	1078.5	1080.4	1091.0	1086.6	1095.3
15°	1124.0	1130.7	1125.5	1122.1	1123.1	1128.3	1127.9	1136.0	1131.7	1138.9
17.5°	1184.4	1193.0	1184.4	1183.9	1182.0	1187.8	1188.3	1195.4	1187.8	1193.0
20°	1255.8	1267.8	1260.6	1263.0	1258.7	1261.1	1263.5	1274.1	1262.1	1265.9
22.5°	1356.5	1370.9	1363.2	1372.3	1369.4	1367.5	1367.0	1385.7	1367.0	1368.5
25°	1503.2	1520.4	1507.0	1519.5	1519.5	1525.7	1532.9	1556.9	1525.7	1516.6
27.5°	1719.8	1737.1	1710.7	1718.4	1716.0	1731.3	1723.7	1783.1	1749.5	1734.7
30°	1980.6	2011.3	1961.4	1959.5	1957.1	1981.5	1992.6	2031.9	1997.8	1983.0
32.5°	2262.4	2294.5	2235.1	2217.9	2208.7	2223.6	2214.5	2246.1	2222.6	2199.6
35°	2560.6	2592.2	2535.6	2502.1	2465.7	2434.5	2401.9	2410.1	2388.0	2353.0
37.5°	2842.4	2900.4	2840.5	2804.5	2737.4	2676.6	2585.5	2547.6	2527.0	2494.9
40°	3129.5	3162.6	3117.1	3086.4	3013.5	2918.1	2772.4	2692.4	2664.6	2633.4
42.5°	3340.9	3372.6	3348.1	3327.0	3270.0	3159.3	2970.9	2870.7	2830.4	2795.4
45°	3508.7	3532.2	3516.8	3524.5	3500.1	3392.7	3176.5	3061.9	3020.2	2977.6
47.5°	3576.3	3601.2	3625.6	3671.2	3712.9	3633.8	3397.5	3269.0	3224.9	3181.3
50°	3568.6	3594.0	3664.9	3761.8	3891.2	3864.8	3630.4	3489.5	3448.8	3398.9
52.5°	3507.2	3536.0	3627.1	3788.1	3994.2	4037.9	3867.7	3717.2	3678.8	3619.4
55°	3346.2	3363.4	3500.1	3728.2	4018.7	4158.6	4100.2	3959.7	3921.4	3838.5
57.5°	3047.6	3072.5	3271.4	3566.7	3957.3	4240.6	4304.4	4214.7	4177.8	4058.5
60°	2657.9	2697.7	2925.3	3295.4	3801.1	4240.1	4489.9	4465.4	4434.7	4275.1
62.5°	2216.9	2262.9	2482.0	2911.9	3527.9	4119.8	4605.9	4675.4	4659.5	4475.0
65°	1702.6	1734.2	1952.3	2415.8	3102.7	3861.5	4619.3	4818.7	4821.6	4627.0
67.5°	1133.6	1224.7	1414.0	1812.8	2533.2	3439.2	4501.4	4842.2	4870.0	4679.2
70°	553.1	673.0	858.5	1178.2	1812.8	2791.6	4193.2	4649.5	4711.3	4526.8
72.5°	229.6	268.4	369.6	581.4	1040.6	1883.8	3573.9	4127.0	4241.6	4011.0
75°	154.8	167.8	211.4	298.1	474.1	928.9	2577.3	3077.3	3261.8	3029.4
77.5°	119.4	127.5	153.9	208.5	281.8	351.3	1379.5	1854.5	1949.9	1805.1
80°	93.9	100.2	115.0	151.9	199.9	187.9	470.2	840.3	895.4	751.1
82.5°	81.5	83.9	82.4	103.1	132.8	109.8	154.3	310.1	342.2	248.3
85°	59.0	65.7	68.5	63.8	70.5	55.6	63.3	109.8	120.8	107.8
87.5°	24.0	35.5	43.6	41.2	25.9	15.8	19.7	32.1	36.9	40.3
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°
1011.9	0°	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9
1012.3	2.5°	1012.8	1016.2	1018.6	1021.4	1023.4	1026.2	1032.0	1035.3	1035.8	1038.2
1020.0	5°	1021.9	1026.7	1032.0	1039.7	1048.3	1055.5	1066.5	1074.2	1077.0	1079.4
1038.7	7.5°	1041.6	1048.3	1057.9	1071.3	1083.8	1093.3	1106.8	1115.9	1125.0	1128.3
1068.4	10°	1070.8	1080.4	1094.3	1112.5	1125.9	1138.4	1152.3	1160.0	1169.1	1172.9
1103.9	12.5°	1107.2	1117.3	1135.5	1160.9	1173.4	1182.0	1186.8	1184.9	1186.8	1190.2
1146.6	15°	1148.9	1160.0	1180.6	1207.9	1216.5	1208.9	1198.3	1188.7	1187.3	1188.3
1198.3	17.5°	1198.3	1206.5	1230.4	1253.4	1247.2	1215.6	1192.6	1177.2	1169.6	1167.2
1264.5	20°	1267.3	1267.3	1287.0	1301.4	1259.7	1206.0	1170.0	1145.1	1129.3	1122.6
1354.6	22.5°	1351.2	1343.6	1356.0	1346.0	1257.3	1179.1	1129.3	1086.2	1062.2	1052.6
1480.6	25°	1457.6	1448.5	1445.2	1382.9	1240.0	1136.5	1055.5	1003.2	982.1	976.9
1662.3	27.5°	1618.2	1595.2	1551.6	1403.0	1208.4	1069.4	969.2	920.8	908.8	909.3
1895.7	30°	1832.0	1786.0	1679.1	1406.3	1156.6	974.5	881.0	846.5	840.7	843.1
2091.8	32.5°	2030.0	1986.3	1809.5	1391.0	1077.0	881.5	801.9	778.9	770.3	773.2
2241.3	35°	2185.3	2173.3	1930.3	1369.4	979.3	794.2	731.0	711.3	694.5	690.7
2382.3	37.5°	2331.9	2327.1	2020.8	1339.2	882.4	732.4	673.9	648.1	623.6	610.2
2538.0	40°	2493.0	2488.2	2080.3	1292.7	796.6	678.7	622.6	588.6	558.4	534.0
2714.4	42.5°	2674.2	2645.9	2108.6	1226.1	723.8	633.2	580.9	534.9	495.1	472.6
2913.8	45°	2872.1	2808.4	2108.1	1141.3	662.4	591.5	536.4	471.2	434.3	413.2
3118.5	47.5°	3082.1	2963.7	2082.2	1047.3	603.0	545.5	467.3	417.5	393.0	380.1
3340.9	50°	3298.7	3108.9	2038.1	939.5	542.1	493.2	424.2	390.2	371.5	359.5
3561.4	52.5°	3502.4	3240.7	1984.9	817.3	480.3	442.4	405.0	378.7	359.0	345.6
3775.2	55°	3691.8	3354.3	1909.6	692.1	430.0	408.4	395.9	373.9	351.3	335.5
3992.3	57.5°	3860.0	3428.2	1779.7	574.7	394.0	384.9	386.3	365.7	339.8	326.4
4206.1	60°	4000.0	3482.3	1587.5	465.9	364.8	361.9	371.5	350.4	320.2	304.9
4386.8	62.5°	4083.9	3481.4	1351.7	381.5	339.8	340.8	351.8	331.2	300.5	286.2
4481.2	65°	4076.7	3396.0	1092.9	326.4	315.9	316.8	331.2	310.1	284.2	275.6
4433.8	67.5°	3932.4	3188.0	838.3	290.5	289.5	293.8	310.6	295.7	274.2	273.2
4151.0	70°	3541.8	2756.1	604.0	261.7	262.2	268.4	290.5	286.6	268.9	270.8
3490.0	72.5°	2840.0	2101.4	405.5	231.5	232.0	242.1	271.3	279.4	263.6	289.0
2476.2	75°	1891.4	1310.5	260.8	199.4	199.9	212.8	254.5	265.5	249.3	288.1
1288.4	77.5°	908.8	589.1	188.9	167.8	167.8	179.7	220.0	237.7	212.3	223.8
414.1	80°	314.0	221.4	148.6	135.2	132.3	140.4	185.5	206.1	183.1	168.7
135.2	82.5°	123.7	115.0	119.4	105.0	95.4	100.7	144.3	170.2	134.7	121.7
76.2	85°	70.9	74.8	84.4	69.5	55.1	61.8	105.9	122.2	101.6	89.6
24.9	87.5°	19.2	26.4	38.8	35.9	24.9	26.4	50.3	67.6	58.5	45.1
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>
1011.9
1037.7
1079.0
1128.8
1174.8
1191.1
1191.6
1170.5
1121.1
1051.2
977.8
910.7
851.3
777.0
693.6
610.7
536.4
474.1
412.2
377.2
355.2
339.8
329.3
317.8
298.1
281.8
275.1
274.7
270.3
292.9
290.5
205.2
158.2
121.3
91.6
46.5
0.0

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