

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: P946341

Luminaire Tested: **GALN-SB2A-735-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-735-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

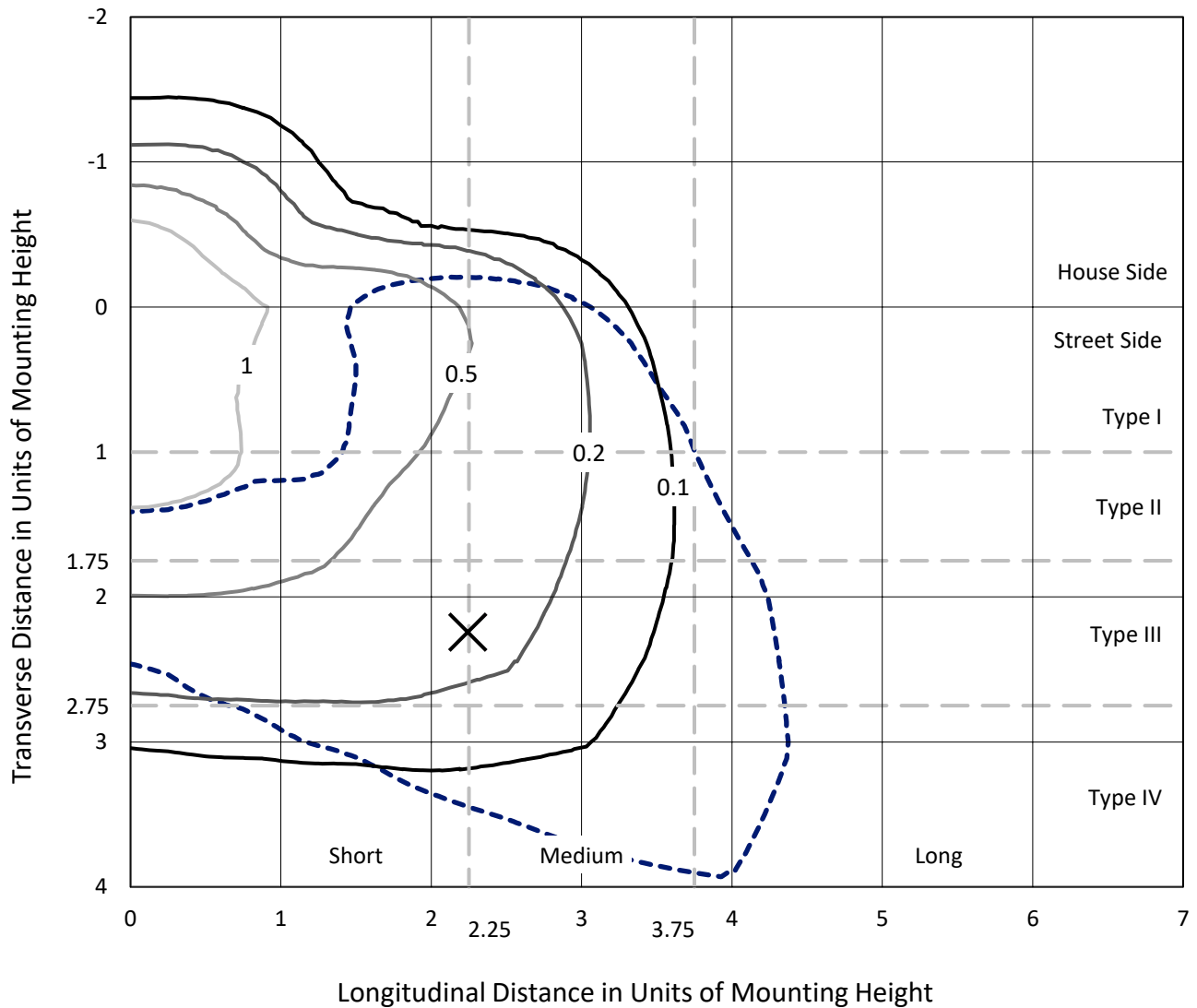
Lumens per Lamp: N/A  
Luminaire Lumens: 8953 lumens  
Efficiency: N/A  
Efficacy: 156.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

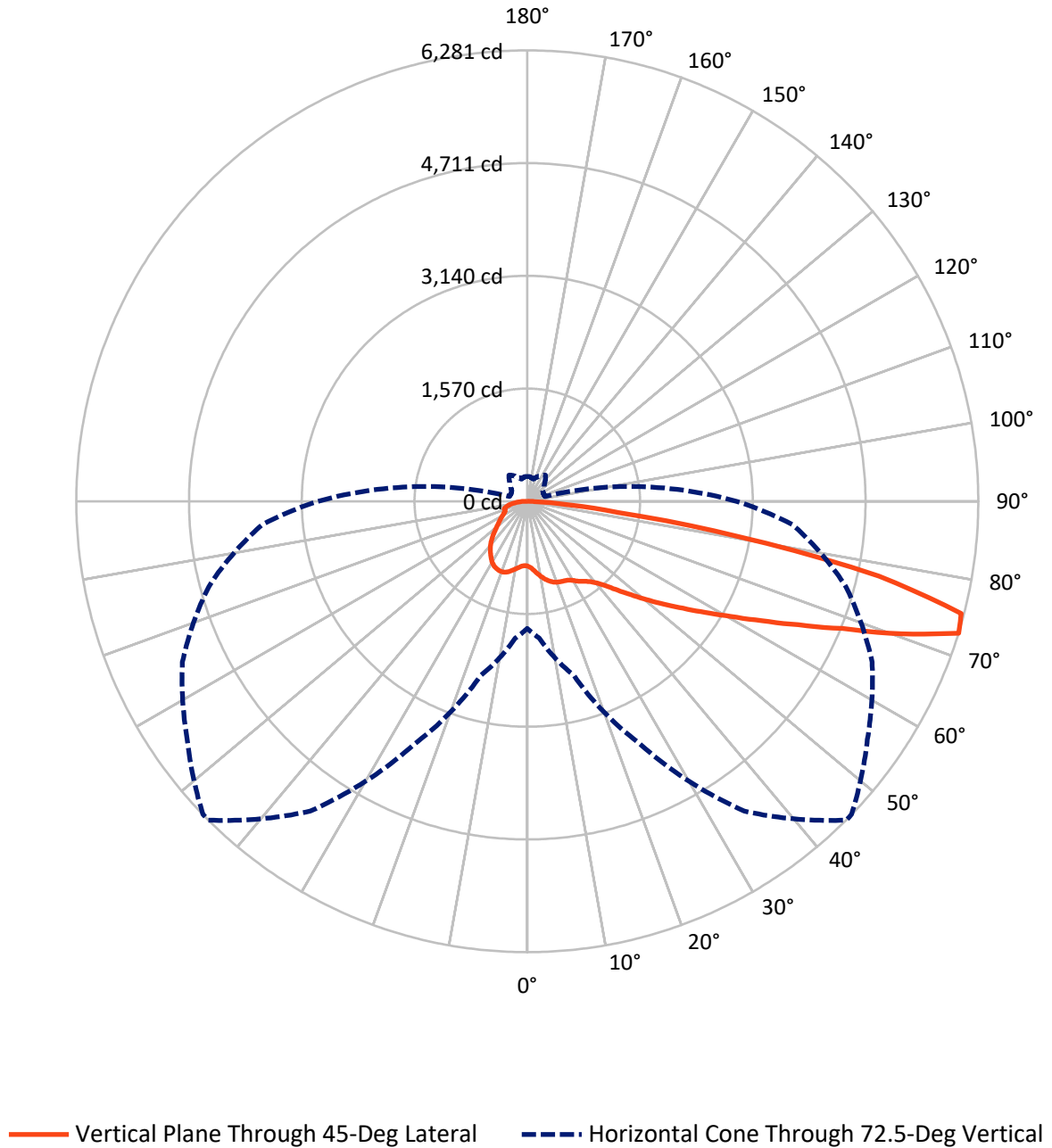
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2024.0	0.0	2024.0
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	6929.0	0.0	6929.0
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	8953.0	0.0	8953.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.9	1.0
10°-20°	306.5	3.4
20°-30°	533.2	6.0
30°-40°	764.3	8.5
40°-50°	1076.2	12.0
50°-60°	1648.4	18.4
60°-70°	2388.0	26.7
70°-80°	1907.0	21.3
80°-90°	237.5	2.7
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°	8953.0	100.0
0°-180°	8953.0	100.0

**Coefficient of Utilization**



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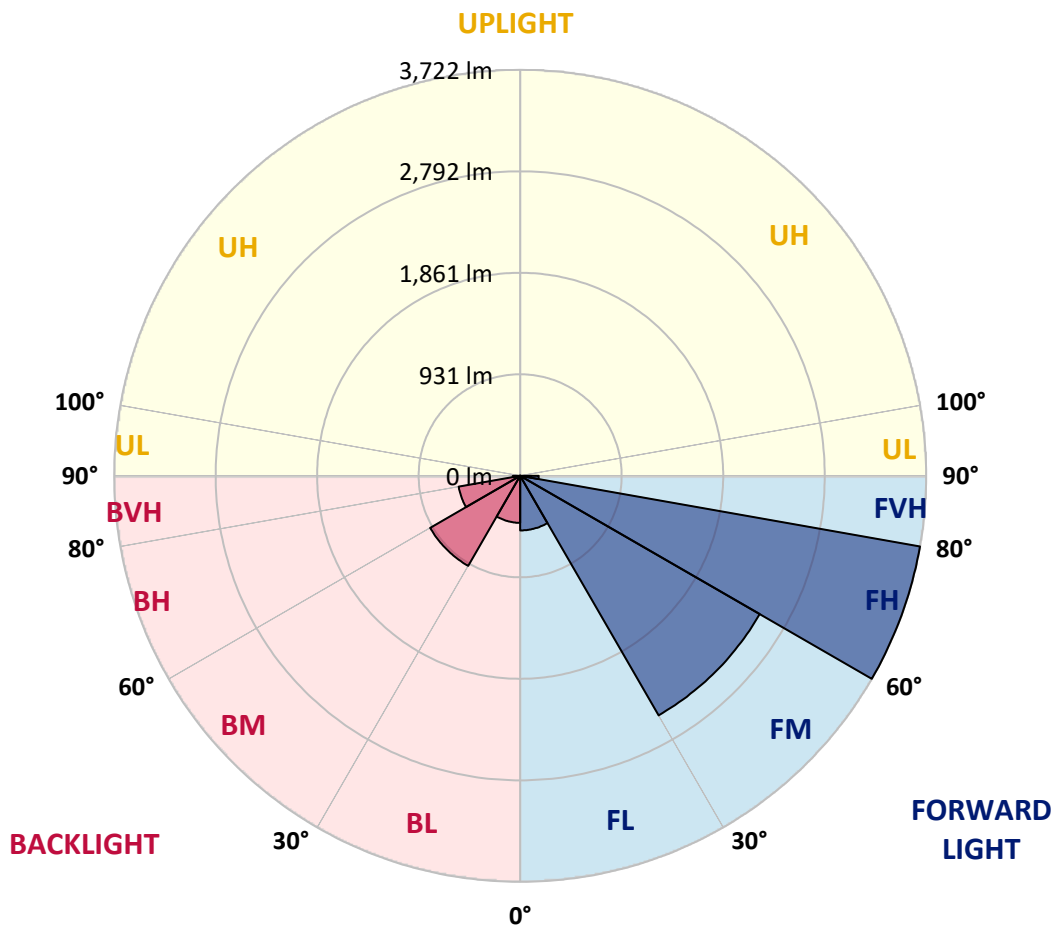
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	500.7	5.6			
FM (30°-60°)	2536.0	28.3			
FH (60°-80°)	3722.0	41.6			G2/5000
FVH (80°-90°)	170.4	1.9			G2/225
BL (0°-30°)	430.9	4.8	B1/500		
BM (30°-60°)	953.0	10.6	B1/1000		
BH (60°-80°)	572.9	6.4	B2/1000		G2/1000
BVH (80°-90°)	67.1	0.7			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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	903.2	903.2	903.2	903.2	903.2	903.2	903.2	903.2	903.2	903.2
2.5°	938.6	944.7	939.0	933.8	931.5	925.4	924.9	921.1	918.7	912.1
5°	1004.1	1012.1	1002.7	992.3	982.9	967.8	965.9	955.1	942.8	928.7
7.5°	1078.2	1085.2	1074.4	1058.8	1042.3	1017.3	1016.8	997.0	977.7	953.6
10°	1142.8	1152.2	1137.6	1116.4	1095.6	1067.3	1064.0	1041.4	1016.8	985.7
12.5°	1199.8	1206.4	1192.3	1166.4	1142.3	1114.0	1109.8	1084.8	1057.4	1022.0
15°	1245.1	1253.6	1234.7	1206.9	1181.4	1153.6	1149.8	1127.2	1099.9	1062.6
17.5°	1274.8	1281.9	1262.6	1231.4	1206.9	1183.8	1181.0	1162.1	1138.1	1100.3
20°	1286.2	1293.7	1273.4	1241.8	1219.2	1201.3	1199.8	1186.2	1169.7	1135.2
22.5°	1297.5	1304.5	1278.1	1245.1	1225.3	1214.0	1213.5	1204.6	1198.0	1169.7
25°	1343.2	1345.1	1309.7	1262.1	1233.8	1223.9	1223.4	1223.0	1225.8	1203.6
27.5°	1382.8	1382.4	1352.2	1307.4	1263.5	1242.8	1242.3	1247.0	1256.0	1237.6
30°	1440.8	1435.7	1399.8	1353.1	1313.0	1281.0	1278.1	1273.9	1281.0	1266.3
32.5°	1563.9	1547.4	1489.4	1406.4	1354.1	1329.5	1325.8	1299.4	1302.2	1293.2
35°	1740.3	1718.6	1641.3	1507.3	1405.0	1370.1	1368.2	1334.7	1329.1	1321.1
37.5°	1950.2	1923.3	1833.3	1653.6	1492.7	1417.3	1414.4	1384.3	1361.1	1352.7
40°	2161.0	2127.1	2052.6	1831.8	1622.0	1496.0	1487.1	1441.3	1414.9	1400.8
42.5°	2365.7	2337.4	2273.8	2031.8	1781.4	1611.1	1591.3	1513.0	1493.2	1480.0
45°	2546.8	2521.4	2474.7	2245.5	1968.1	1767.7	1748.4	1620.5	1614.4	1614.4
47.5°	2694.0	2688.3	2638.8	2463.4	2188.4	1946.0	1912.5	1770.1	1786.6	1812.0
50°	2857.2	2841.6	2788.8	2678.0	2447.3	2150.2	2122.8	1953.5	2015.3	2085.1
52.5°	3007.2	3015.6	2956.7	2901.5	2739.7	2378.0	2329.9	2170.0	2303.5	2419.0
55°	3161.4	3161.8	3145.3	3137.8	3046.3	2629.8	2577.0	2430.3	2642.6	2786.0
57.5°	3306.2	3307.1	3331.6	3398.1	3401.9	2920.4	2860.5	2750.1	3019.4	3165.6
60°	3435.4	3442.0	3509.0	3664.6	3714.6	3253.3	3196.8	3127.9	3409.0	3556.1
62.5°	3478.8	3502.8	3651.9	3873.1	4023.5	3661.8	3606.1	3565.1	3818.4	3955.1
65°	3405.2	3460.4	3748.6	4045.2	4341.4	4147.1	4091.9	4047.1	4243.8	4372.5
67.5°	3224.6	3295.8	3742.9	4225.9	4727.2	4731.0	4679.6	4574.4	4699.9	4749.4
70°	2748.7	2855.3	3413.2	4293.3	5170.1	5529.5	5479.9	5209.2	5155.0	4915.4
72.5°	1771.0	1914.4	2513.3	3738.2	5268.6	6280.8	6278.0	5782.3	5298.8	4592.8
75°	646.1	733.9	1167.8	2346.4	4422.5	6242.6	6261.0	5684.2	4837.1	3547.6
77.5°	235.3	257.5	381.1	901.8	2719.9	5008.8	5047.0	4544.2	3442.9	1780.4
80°	123.6	135.8	195.3	350.0	1165.4	2974.6	3034.5	2700.6	1618.2	536.3
82.5°	68.4	74.0	109.4	190.1	524.9	1272.0	1307.8	1066.8	569.3	227.3
85°	36.8	39.1	51.4	103.8	256.6	441.0	450.9	318.8	226.9	133.5
87.5°	10.8	13.2	17.0	33.0	100.5	99.0	101.4	63.2	89.6	67.4
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°
903.2	0°	903.2	903.2	903.2	903.2	903.2	903.2	903.2	903.2	903.2	903.2
910.3	2.5°	907.4	906.0	900.8	898.5	895.6	895.2	897.5	898.0	898.5	898.9
920.6	5°	915.9	911.2	906.5	903.7	904.6	905.1	909.8	913.1	915.4	917.3
940.0	7.5°	932.4	928.7	920.6	920.2	921.6	925.8	932.0	939.5	943.7	947.0
965.0	10°	956.9	949.9	940.4	941.9	944.7	950.8	963.6	969.7	976.8	982.9
995.6	12.5°	981.9	975.8	965.0	965.9	970.6	981.5	993.7	1001.3	1006.0	1010.7
1028.6	15°	1014.5	1003.6	991.9	991.9	1000.3	1012.1	1017.8	1023.9	1026.8	1031.9
1064.0	17.5°	1048.0	1033.8	1018.3	1017.3	1027.7	1033.4	1036.7	1037.6	1038.5	1044.2
1098.4	20°	1081.5	1065.9	1043.7	1041.8	1044.2	1043.3	1042.8	1041.8	1043.3	1050.3
1133.8	22.5°	1114.5	1096.6	1065.9	1057.4	1050.8	1041.8	1041.4	1040.9	1041.8	1048.9
1172.0	25°	1153.2	1131.5	1090.4	1065.0	1042.8	1030.5	1031.9	1032.4	1033.4	1039.0
1211.6	27.5°	1195.1	1171.1	1113.1	1062.6	1022.5	1014.0	1011.7	1013.1	1016.4	1025.3
1251.3	30°	1237.1	1208.8	1133.8	1053.2	997.0	985.2	977.7	981.0	991.4	1000.3
1285.7	32.5°	1275.3	1247.0	1150.3	1032.4	964.5	946.1	936.2	940.4	950.8	954.1
1323.9	35°	1320.1	1288.0	1157.4	999.4	929.1	900.8	887.6	881.5	886.7	883.4
1368.7	37.5°	1370.1	1336.6	1156.5	956.0	887.6	855.1	836.7	813.6	802.7	791.4
1434.7	40°	1444.2	1396.0	1145.1	903.7	836.2	806.5	773.5	734.3	709.8	687.6
1541.3	42.5°	1545.1	1478.6	1124.4	846.1	778.2	750.4	705.6	659.8	621.1	584.4
1703.1	45°	1695.5	1586.6	1098.4	784.8	715.5	688.1	639.5	588.1	544.3	497.1
1932.8	47.5°	1912.5	1731.8	1073.9	715.0	649.4	624.4	580.6	532.9	481.1	435.3
2264.8	50°	2210.6	1940.3	1051.3	647.1	584.4	565.5	530.6	482.0	429.7	392.9
2653.9	52.5°	2589.8	2223.8	1041.8	581.5	523.5	516.4	488.6	443.3	393.8	362.7
3107.6	55°	3025.1	2562.9	1041.8	518.8	470.2	472.6	453.2	411.3	368.3	340.5
3575.5	57.5°	3469.4	2906.2	1023.0	460.8	424.9	434.8	422.6	385.8	347.1	318.4
4067.4	60°	3878.7	3193.9	946.6	408.0	384.9	400.4	392.4	360.8	313.6	289.6
4478.7	62.5°	4193.3	3356.2	799.4	366.0	351.8	369.8	365.5	327.8	307.5	297.6
4816.3	65°	4350.8	3329.8	611.2	328.7	324.0	351.8	342.9	341.5	325.4	314.1
4926.2	67.5°	4254.2	3102.4	443.3	301.4	308.0	335.3	369.8	375.4	345.7	323.5
4616.8	70°	3830.2	2691.2	330.1	275.4	287.7	335.8	421.6	392.9	339.1	313.2
3702.8	72.5°	2913.8	2006.8	256.1	248.1	261.3	338.2	444.8	384.9	320.2	346.2
2306.8	75°	1666.3	1101.7	205.6	214.6	228.3	316.0	433.0	364.1	305.6	317.9
914.0	77.5°	635.3	423.5	169.8	181.6	183.5	275.9	414.1	362.7	291.0	283.9
274.0	80°	220.3	165.5	140.5	144.3	142.0	245.3	397.1	315.5	238.2	213.2
113.2	82.5°	90.1	82.5	111.3	106.6	100.9	190.5	320.7	258.0	194.8	172.1
54.7	85°	39.1	52.4	73.6	64.6	58.5	132.1	257.0	218.4	164.6	142.0
17.9	87.5°	8.0	19.8	31.1	29.2	30.2	88.2	182.5	155.2	116.5	87.3
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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180°  
903.2  
900.8  
918.3  
948.0  
981.5  
1012.6  
1033.8  
1046.1  
1053.2  
1053.6  
1046.6  
1034.3  
1010.2  
965.9  
893.8  
798.5  
689.1  
581.1  
491.4  
430.1  
390.5  
360.3  
337.7  
313.6  
285.8  
294.3  
310.3  
319.8  
308.9  
343.4  
317.9  
258.9  
206.1  
170.3  
141.5  
68.4  
0.0

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