

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: P946131

Luminaire Tested: **GALN-SB1D-840-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946131  
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-SB1D-840-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9718 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

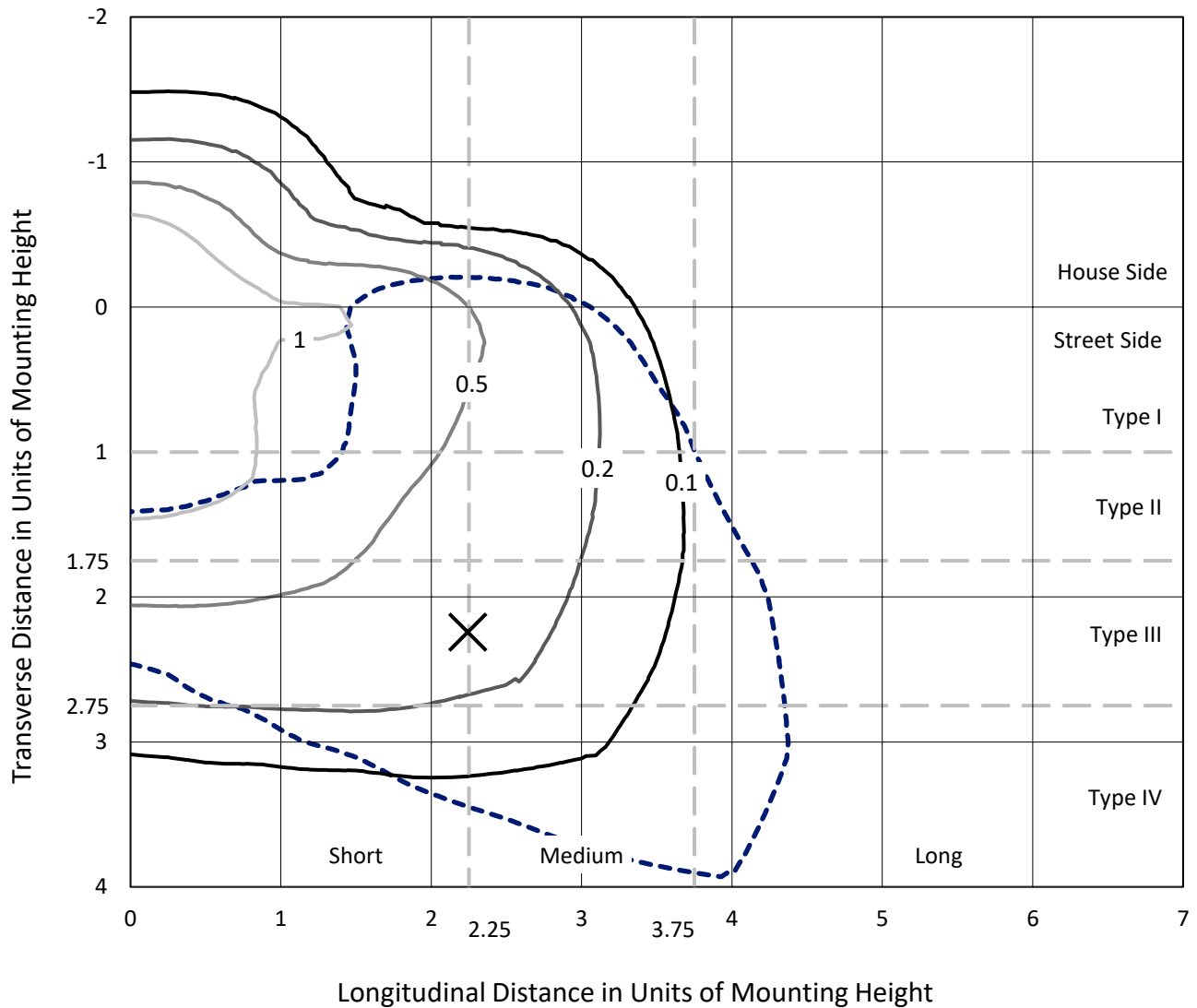
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

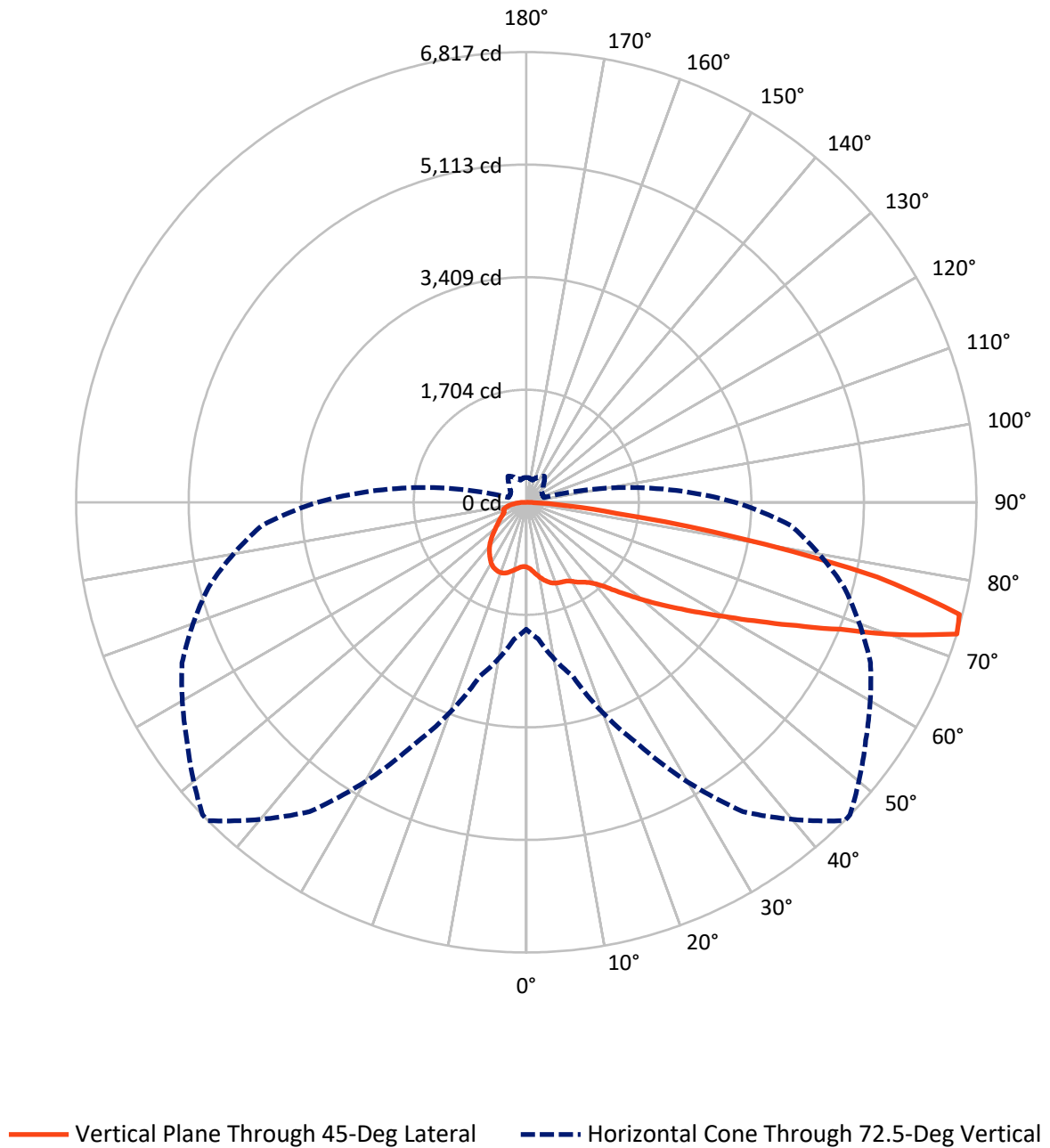
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	2196.9	0.0	2196.9
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	7521.1	0.0	7521.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	9718.0	0.0	9718.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.8	1.0
10°-20°	332.7	3.4
20°-30°	578.7	6.0
30°-40°	829.6	8.5
40°-50°	1168.2	12.0
50°-60°	1789.3	18.4
60°-70°	2592.0	26.7
70°-80°	2069.9	21.3
80°-90°	257.8	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°	9718.0	100.0
0°-180°	9718.0	100.0

**Coefficient of Utilization**



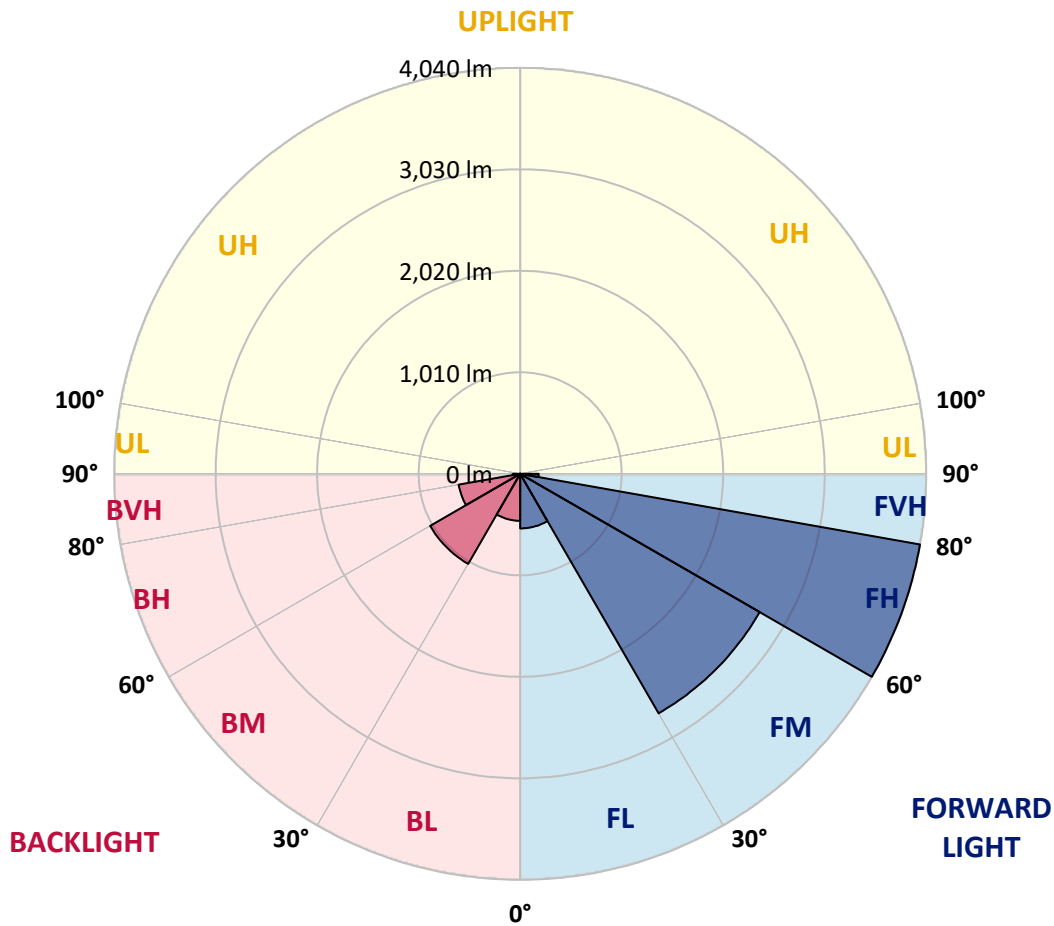
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.4	5.6			
FM (30°-60°)	2752.6	28.3			
FH (60°-80°)	4040.1	41.6			G2/5000
FVH (80°-90°)	184.9	1.9			G2/225
BL (0°-30°)	467.7	4.8	B1/500		
BM (30°-60°)	1034.4	10.6	B2/2500		
BH (60°-80°)	621.9	6.4	B2/1000		G2/1000
BVH (80°-90°)	72.8	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°	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4
2.5°	1018.8	1025.4	1019.3	1013.6	1011.1	1004.4	1003.9	999.8	997.3	990.1
5°	1089.9	1098.6	1088.4	1077.1	1066.9	1050.5	1048.4	1036.7	1023.4	1008.0
7.5°	1170.3	1178.0	1166.2	1149.3	1131.4	1104.2	1103.7	1082.2	1061.2	1035.1
10°	1240.4	1250.7	1234.8	1211.8	1189.2	1158.5	1154.9	1130.4	1103.7	1069.9
12.5°	1302.4	1309.5	1294.2	1266.0	1239.9	1209.2	1204.6	1177.5	1147.8	1109.4
15°	1351.5	1360.7	1340.2	1310.0	1282.4	1252.2	1248.1	1223.5	1193.8	1153.4
17.5°	1383.8	1391.4	1370.5	1336.7	1310.0	1285.0	1281.9	1261.4	1235.3	1194.3
20°	1396.0	1404.2	1382.2	1347.9	1323.4	1303.9	1302.4	1287.5	1269.6	1232.2
22.5°	1408.3	1416.0	1387.3	1351.5	1330.0	1317.7	1317.2	1307.5	1300.3	1269.6
25°	1458.0	1460.0	1421.6	1369.9	1339.2	1328.5	1328.0	1327.4	1330.5	1306.5
27.5°	1501.0	1500.5	1467.7	1419.1	1371.5	1349.0	1348.4	1353.6	1363.3	1343.3
30°	1564.0	1558.3	1519.4	1468.7	1425.2	1390.4	1387.3	1382.7	1390.4	1374.5
32.5°	1697.6	1679.7	1616.7	1526.6	1469.8	1443.1	1439.1	1410.4	1413.5	1403.7
35°	1889.0	1865.5	1781.5	1636.1	1525.1	1487.2	1485.1	1448.8	1442.6	1433.9
37.5°	2116.9	2087.7	1989.9	1794.8	1620.3	1538.4	1535.3	1502.5	1477.4	1468.2
40°	2345.7	2308.8	2227.9	1988.4	1760.5	1623.9	1614.1	1564.5	1535.8	1520.4
42.5°	2567.9	2537.2	2468.0	2205.4	1933.6	1748.8	1727.3	1642.3	1620.8	1606.5
45°	2764.5	2736.8	2686.1	2437.3	2136.3	1918.7	1897.7	1759.0	1752.4	1752.4
47.5°	2924.2	2918.0	2864.3	2673.8	2375.4	2112.2	2075.9	1921.3	1939.2	1966.9
50°	3101.3	3084.4	3027.1	2906.8	2656.4	2333.9	2304.2	2120.4	2187.5	2263.3
52.5°	3264.1	3273.3	3209.3	3149.4	2973.8	2581.2	2529.0	2355.4	2500.3	2625.7
55°	3431.5	3432.0	3414.1	3405.9	3306.6	2854.6	2797.2	2638.0	2868.4	3024.0
57.5°	3588.7	3589.7	3616.3	3688.5	3692.6	3169.9	3104.9	2985.1	3277.4	3436.1
60°	3728.9	3736.1	3808.8	3977.7	4032.0	3531.3	3469.9	3395.2	3700.3	3860.0
62.5°	3776.0	3802.1	3963.9	4204.0	4367.3	3974.7	3914.3	3869.7	4144.6	4293.1
65°	3696.2	3756.1	4068.9	4390.9	4712.4	4501.5	4441.6	4392.9	4606.4	4746.2
67.5°	3500.1	3577.4	4062.7	4586.9	5131.1	5135.2	5079.4	4965.3	5101.4	5155.2
70°	2983.6	3099.3	3704.9	4660.2	5611.8	6001.9	5948.2	5654.3	5595.5	5335.4
72.5°	1922.3	2077.9	2728.1	4057.6	5718.8	6817.4	6814.4	6276.3	5751.6	4985.2
75°	701.4	796.6	1267.6	2546.9	4800.4	6776.0	6795.9	6169.9	5250.4	3850.8
77.5°	255.5	279.5	413.6	978.8	2952.3	5436.8	5478.2	4932.5	3737.1	1932.6
80°	134.1	147.4	211.9	379.9	1265.0	3228.8	3293.8	2931.3	1756.5	582.1
82.5°	74.2	80.4	118.8	206.3	569.8	1380.7	1419.6	1158.0	617.9	246.8
85°	39.9	42.5	55.8	112.6	278.5	478.7	489.4	346.1	246.2	144.9
87.5°	11.8	14.3	18.4	35.8	109.0	107.5	110.1	68.6	97.3	73.2
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°
980.4	0°	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4
988.0	2.5°	985.0	983.4	977.8	975.2	972.2	971.7	974.2	974.7	975.2	975.7
999.3	5°	994.2	989.1	983.9	980.9	981.9	982.4	987.5	991.1	993.7	995.7
1020.3	7.5°	1012.1	1008.0	999.3	998.8	1000.3	1004.9	1011.6	1019.8	1024.4	1028.0
1047.4	10°	1038.7	1031.0	1020.8	1022.3	1025.4	1032.1	1045.9	1052.5	1060.2	1066.9
1080.7	12.5°	1065.9	1059.2	1047.4	1048.4	1053.6	1065.3	1078.6	1086.8	1092.0	1097.1
1116.5	15°	1101.2	1089.4	1076.6	1076.6	1085.8	1098.6	1104.8	1111.4	1114.5	1120.1
1154.9	17.5°	1137.5	1122.2	1105.3	1104.2	1115.5	1121.7	1125.2	1126.3	1127.3	1133.4
1192.3	20°	1173.9	1157.0	1132.9	1130.9	1133.4	1132.4	1131.9	1130.9	1132.4	1140.1
1230.7	22.5°	1209.7	1190.3	1157.0	1147.8	1140.6	1130.9	1130.4	1129.8	1130.9	1138.5
1272.2	25°	1251.7	1228.1	1183.6	1156.0	1131.9	1118.6	1120.1	1120.6	1121.7	1127.8
1315.2	27.5°	1297.2	1271.1	1208.2	1153.4	1109.9	1100.7	1098.1	1099.6	1103.2	1112.9
1358.2	30°	1342.8	1312.1	1230.7	1143.2	1082.2	1069.4	1061.2	1064.8	1076.1	1085.8
1395.5	32.5°	1384.3	1353.6	1248.6	1120.6	1046.9	1026.9	1016.2	1020.8	1032.1	1035.6
1437.0	35°	1432.9	1398.1	1256.3	1084.8	1008.5	977.8	963.5	956.8	962.4	958.9
1485.6	37.5°	1487.2	1450.8	1255.3	1037.7	963.5	928.1	908.2	883.1	871.3	859.0
1557.3	40°	1567.5	1515.3	1243.0	980.9	907.7	875.4	839.6	797.1	770.5	746.4
1673.0	42.5°	1677.1	1604.9	1220.5	918.4	844.7	814.5	765.9	716.2	674.2	634.3
1848.6	45°	1840.4	1722.2	1192.3	851.9	776.6	746.9	694.2	638.4	590.8	539.6
2097.9	47.5°	2075.9	1879.8	1165.7	776.1	704.9	677.8	630.2	578.5	522.2	472.5
2458.3	50°	2399.4	2106.1	1141.1	702.4	634.3	613.8	575.9	523.2	466.4	426.4
2880.7	52.5°	2811.0	2413.8	1130.9	631.2	568.2	560.6	530.4	481.2	427.5	393.7
3373.1	55°	3283.6	2781.9	1130.9	563.1	510.4	513.0	492.0	446.4	399.8	369.6
3881.0	57.5°	3765.8	3154.5	1110.4	500.2	461.3	472.0	458.7	418.8	376.8	345.6
4414.9	60°	4210.2	3466.8	1027.5	442.8	417.7	434.6	425.9	391.6	340.4	314.3
4861.3	62.5°	4551.6	3642.9	867.7	397.3	381.9	401.4	396.8	355.8	333.8	323.0
5227.9	65°	4722.6	3614.3	663.5	356.8	351.7	381.9	372.2	370.6	353.2	340.9
5347.2	67.5°	4617.7	3367.5	481.2	327.1	334.3	364.0	401.4	407.5	375.2	351.2
5011.3	70°	4157.4	2921.1	358.4	299.0	312.3	364.5	457.7	426.4	368.1	339.9
4019.2	72.5°	3162.7	2178.3	278.0	269.3	283.6	367.1	482.8	417.7	347.6	375.8
2503.9	75°	1808.7	1195.9	223.2	232.9	247.8	343.0	470.0	395.2	331.7	345.0
992.1	77.5°	689.6	459.7	184.3	197.1	199.1	299.5	449.5	393.7	315.9	308.2
297.4	80°	239.1	179.7	152.6	156.7	154.1	266.2	431.0	342.5	258.5	231.4
122.9	82.5°	97.8	89.6	120.8	115.7	109.6	206.8	348.1	280.0	211.4	186.9
59.4	85°	42.5	56.8	79.9	70.1	63.5	143.3	279.0	237.0	178.7	154.1
19.5	87.5°	8.7	21.5	33.8	31.7	32.8	95.7	198.1	168.4	126.4	94.7
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°  
980.4  
977.8  
996.7  
1029.0  
1065.3  
1099.1  
1122.2  
1135.5  
1143.2  
1143.7  
1136.0  
1122.7  
1096.6  
1048.4  
970.1  
866.7  
747.9  
630.7  
533.4  
466.9  
423.9  
391.1  
366.5  
340.4  
310.2  
319.4  
336.9  
347.1  
335.3  
372.7  
345.0  
281.1  
223.7  
184.8  
153.6  
74.2  
0.0

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