

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: P946089

Luminaire Tested: **GALN-SB1D-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946089
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-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9129 lumens
Efficiency: N/A
Efficacy: 114.7 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

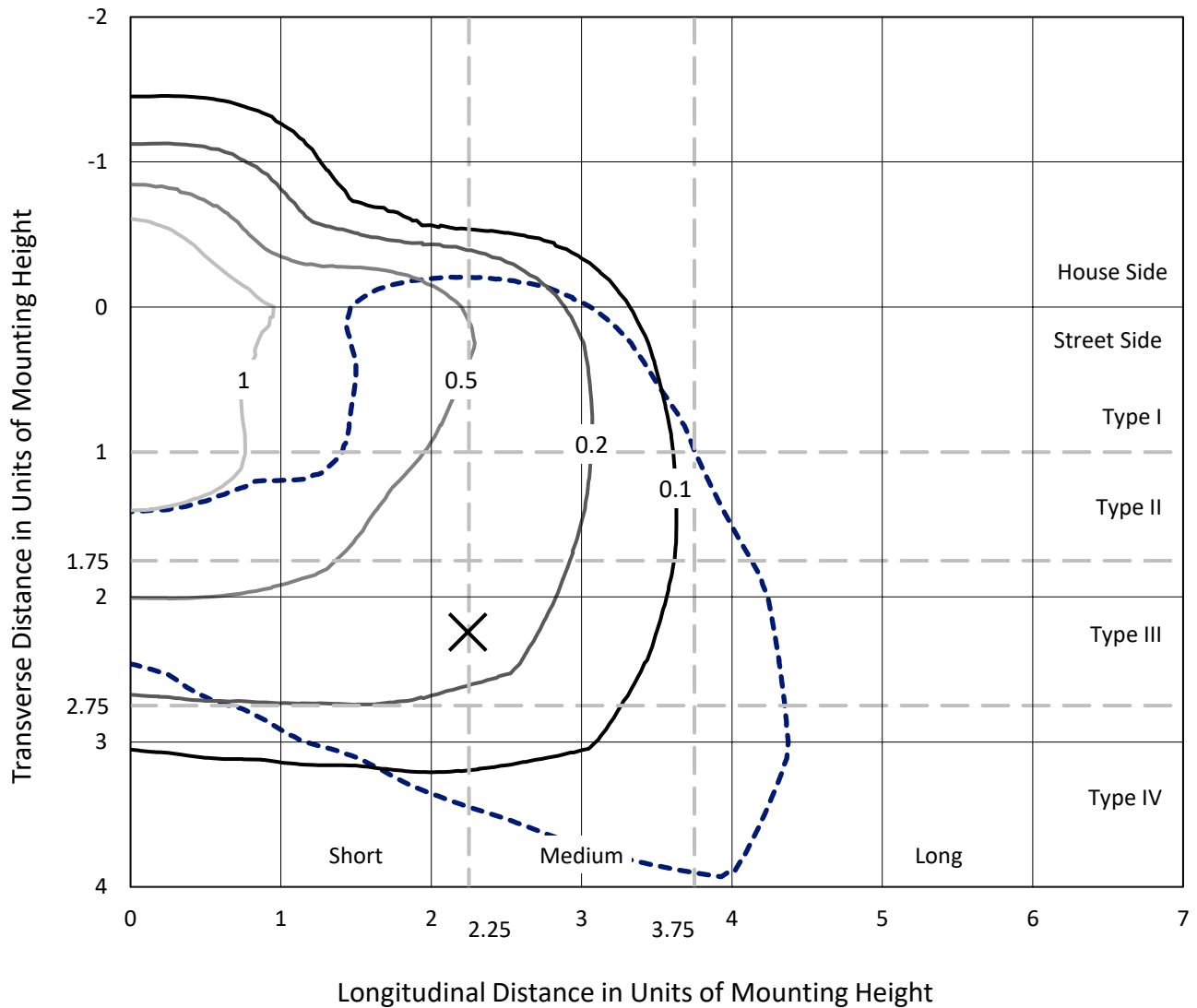
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

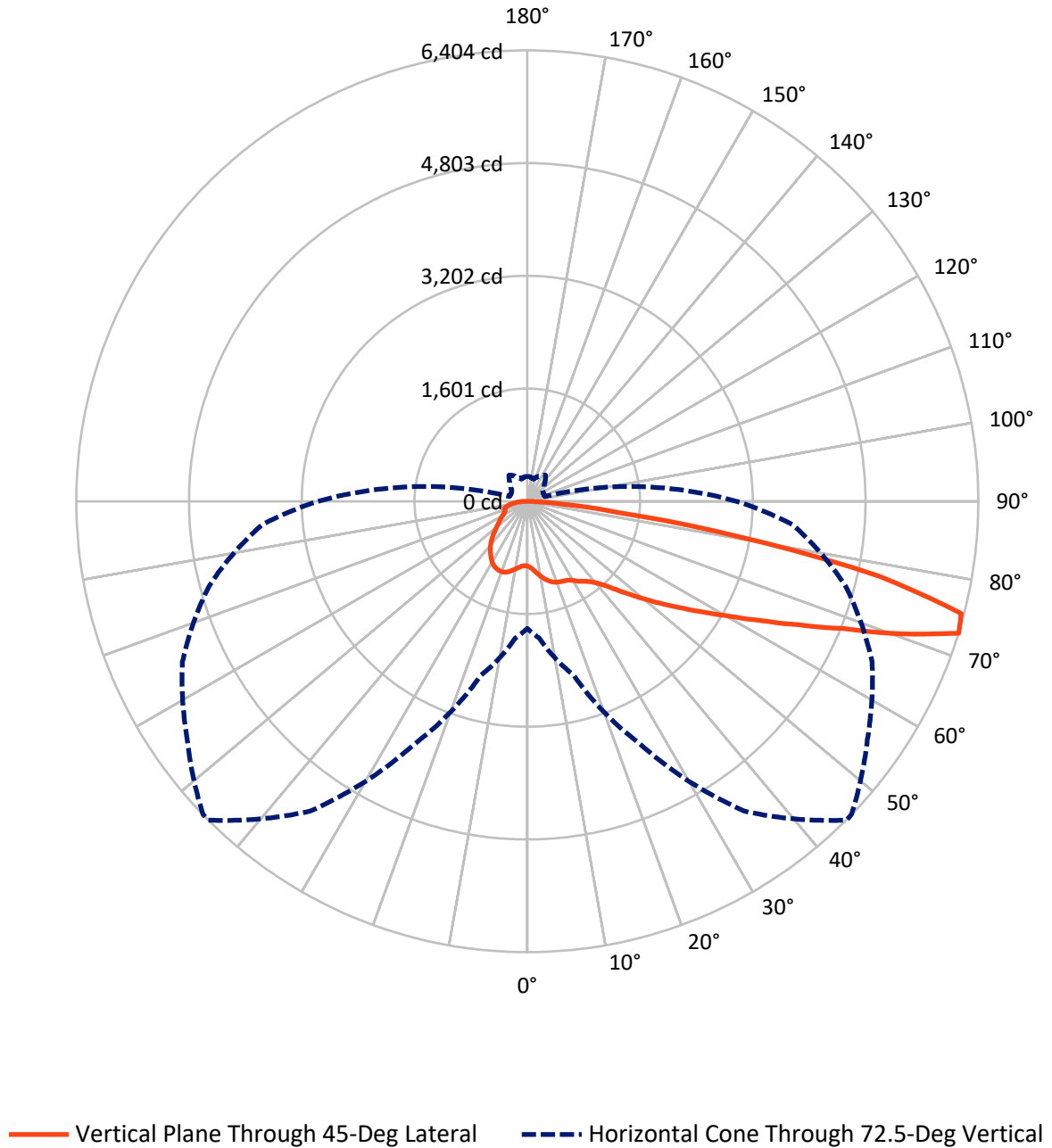
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2063.8	0.0	2063.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	7065.2	0.0	7065.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	9129.0	0.0	9129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	1.0
10°-20°	312.5	3.4
20°-30°	543.6	6.0
30°-40°	779.3	8.5
40°-50°	1097.4	12.0
50°-60°	1680.8	18.4
60°-70°	2434.9	26.7
70°-80°	1944.4	21.3
80°-90°	242.2	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°	9129.0	100.0
0°-180°	9129.0	100.0

Coefficient of Utilization



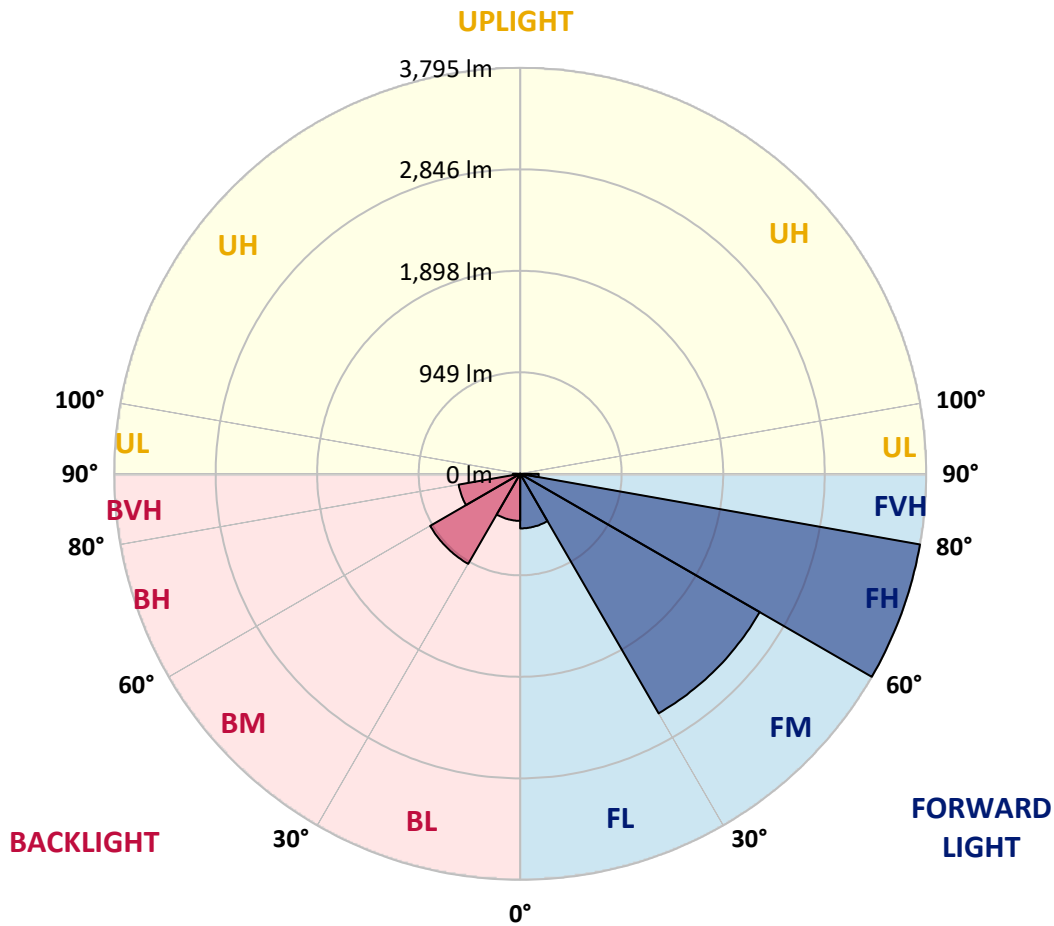
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	510.5	5.6			
FM (30°-60°)	2585.8	28.3			
FH (60°-80°)	3795.2	41.6			G2/5000
FVH (80°-90°)	173.7	1.9			G2/225
BL (0°-30°)	439.4	4.8	B1/500		
BM (30°-60°)	971.7	10.6	B1/1000		
BH (60°-80°)	584.2	6.4	B2/1000		G2/1000
BVH (80°-90°)	68.4	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°	920.9	920.9	920.9	920.9	920.9	920.9	920.9	920.9	920.9	920.9
2.5°	957.0	963.3	957.5	952.2	949.8	943.5	943.1	939.2	936.8	930.1
5°	1023.9	1032.0	1022.4	1011.8	1002.2	986.8	984.9	973.8	961.3	946.9
7.5°	1099.4	1106.6	1095.5	1079.6	1062.8	1037.3	1036.8	1016.6	996.9	972.4
10°	1165.2	1174.9	1159.9	1138.3	1117.1	1088.3	1084.9	1061.8	1036.8	1005.1
12.5°	1223.4	1230.2	1215.7	1189.3	1164.8	1135.9	1131.6	1106.1	1078.2	1042.1
15°	1269.6	1278.3	1259.0	1230.6	1204.7	1176.3	1172.5	1149.4	1121.5	1083.5
17.5°	1299.9	1307.1	1287.4	1255.7	1230.6	1207.1	1204.2	1185.0	1160.4	1122.0
20°	1311.4	1319.1	1298.5	1266.2	1243.1	1224.9	1223.4	1209.5	1192.7	1157.5
22.5°	1323.0	1330.2	1303.3	1269.6	1249.4	1237.9	1237.4	1228.2	1221.5	1192.7
25°	1369.6	1371.5	1335.5	1286.9	1258.1	1248.0	1247.5	1247.0	1249.9	1227.3
27.5°	1410.0	1409.5	1378.8	1333.1	1288.4	1267.2	1266.7	1271.5	1280.7	1261.9
30°	1469.2	1463.9	1427.3	1379.7	1338.8	1306.1	1303.3	1298.9	1306.1	1291.2
32.5°	1594.7	1577.9	1518.7	1434.1	1380.7	1355.7	1351.8	1324.9	1327.8	1318.6
35°	1774.5	1752.4	1673.6	1537.0	1432.6	1397.0	1395.1	1361.0	1355.2	1347.0
37.5°	1988.6	1961.1	1869.3	1686.1	1522.1	1445.1	1442.2	1411.5	1387.9	1379.2
40°	2203.5	2168.9	2092.9	1867.8	1653.8	1525.4	1516.3	1469.7	1442.7	1428.3
42.5°	2412.2	2383.4	2318.5	2071.8	1816.4	1642.8	1622.6	1542.8	1522.6	1509.1
45°	2596.9	2570.9	2523.3	2289.6	2006.8	1802.4	1782.7	1652.4	1646.1	1646.1
47.5°	2746.9	2741.2	2690.7	2511.8	2231.4	1984.2	1950.1	1804.8	1821.7	1847.6
50°	2913.3	2897.5	2843.6	2730.6	2495.4	2192.5	2164.6	1991.9	2054.9	2126.1
52.5°	3066.3	3074.9	3014.8	2958.5	2793.6	2424.7	2375.7	2212.7	2348.8	2466.6
55°	3223.5	3224.0	3207.2	3199.5	3106.2	2681.5	2627.7	2478.1	2694.5	2840.7
57.5°	3371.2	3372.1	3397.1	3464.9	3468.8	2977.8	2916.7	2804.2	3078.8	3227.9
60°	3502.9	3509.7	3578.0	3736.7	3787.6	3317.3	3259.6	3189.4	3476.0	3626.0
62.5°	3547.2	3571.7	3723.7	3949.2	4102.6	3733.8	3677.0	3635.2	3893.4	4032.9
65°	3472.2	3528.4	3822.3	4124.7	4426.8	4228.6	4172.4	4126.7	4327.2	4458.5
67.5°	3288.0	3360.6	3816.5	4308.9	4820.1	4824.0	4771.6	4664.3	4792.2	4842.7
70°	2802.7	2911.4	3480.3	4377.7	5271.7	5638.2	5587.7	5311.6	5256.3	5012.0
72.5°	1805.8	1952.0	2562.8	3811.7	5372.2	6404.2	6401.4	5895.9	5403.0	4683.1
75°	658.8	748.3	1190.7	2392.5	4509.5	6365.3	6384.1	5795.9	4932.2	3617.4
77.5°	240.0	262.6	388.6	919.5	2773.4	5107.2	5146.2	4633.5	3510.6	1815.4
80°	126.0	138.5	199.1	356.8	1188.3	3033.1	3094.2	2753.7	1650.0	546.8
82.5°	69.7	75.5	111.6	193.8	535.3	1297.0	1333.6	1087.8	580.5	231.8
85°	37.5	39.9	52.4	105.8	261.6	449.6	459.7	325.1	231.3	136.1
87.5°	11.1	13.5	17.3	33.7	102.4	101.0	103.4	64.4	91.4	68.8
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°
920.9	0°	920.9	920.9	920.9	920.9	920.9	920.9	920.9	920.9	920.9	920.9
928.2	2.5°	925.3	923.8	918.5	916.1	913.2	912.8	915.2	915.6	916.1	916.6
938.7	5°	933.9	929.1	924.3	921.4	922.4	922.9	927.7	931.0	933.4	935.4
958.4	7.5°	950.8	946.9	938.7	938.3	939.7	944.0	950.3	958.0	962.3	965.7
983.9	10°	975.8	968.5	958.9	960.4	963.3	969.5	982.5	988.7	996.0	1002.2
1015.2	12.5°	1001.3	995.0	983.9	984.9	989.7	1000.8	1013.3	1021.0	1025.8	1030.6
1048.9	15°	1034.4	1023.4	1011.3	1011.3	1020.0	1032.0	1037.8	1044.1	1046.9	1052.2
1084.9	17.5°	1068.6	1054.1	1038.3	1037.3	1047.9	1053.7	1057.0	1058.0	1059.0	1064.7
1120.0	20°	1102.7	1086.9	1064.2	1062.3	1064.7	1063.8	1063.3	1062.3	1063.8	1071.0
1156.1	22.5°	1136.4	1118.1	1086.9	1078.2	1071.5	1062.3	1061.8	1061.4	1062.3	1069.5
1195.1	25°	1175.8	1153.7	1111.9	1085.9	1063.3	1050.8	1052.2	1052.7	1053.7	1059.4
1235.5	27.5°	1218.6	1194.1	1134.9	1083.5	1042.6	1034.0	1031.5	1033.0	1036.4	1045.5
1275.8	30°	1261.4	1232.6	1156.1	1073.9	1016.6	1004.6	996.9	1000.3	1010.9	1020.0
1311.0	32.5°	1300.4	1271.5	1172.9	1052.7	983.5	964.7	954.6	958.9	969.5	972.9
1349.9	35°	1346.1	1313.4	1180.1	1019.0	947.4	918.5	905.1	898.8	904.1	900.7
1395.6	37.5°	1397.0	1362.9	1179.2	974.8	905.1	871.9	853.1	829.6	818.5	807.0
1462.9	40°	1472.5	1423.5	1167.6	921.4	852.6	822.4	788.7	748.8	723.8	701.2
1571.6	42.5°	1575.5	1507.6	1146.5	862.7	793.5	765.1	719.4	672.8	633.4	595.8
1736.6	45°	1728.9	1617.8	1120.0	800.2	729.5	701.6	652.1	599.7	555.0	506.9
1970.8	47.5°	1950.1	1765.9	1095.0	729.1	662.2	636.7	592.0	543.4	490.5	443.9
2309.3	50°	2254.0	1978.5	1071.9	659.8	595.8	576.6	541.0	491.5	438.1	400.6
2706.1	52.5°	2640.7	2267.5	1062.3	593.0	533.8	526.6	498.2	452.1	401.6	369.8
3168.7	55°	3084.5	2613.3	1062.3	529.0	479.5	481.9	462.2	419.4	375.6	347.2
3645.8	57.5°	3537.6	2963.4	1043.1	469.8	433.3	443.4	430.9	393.4	353.9	324.6
4147.3	60°	3955.0	3256.7	965.2	416.0	392.4	408.3	400.1	367.9	319.8	295.3
4566.7	62.5°	4275.8	3422.1	815.1	373.2	358.8	377.0	372.7	334.2	313.6	303.5
4911.0	65°	4436.4	3395.2	623.3	335.2	330.4	358.8	349.6	348.2	331.8	320.3
5023.1	67.5°	4337.8	3163.4	452.1	307.3	314.0	341.9	377.0	382.8	352.5	329.9
4707.6	70°	3905.5	2744.1	336.6	280.9	293.4	342.4	429.9	400.6	345.8	319.3
3775.6	72.5°	2971.0	2046.3	261.1	253.0	266.4	344.8	453.5	392.4	326.5	353.0
2352.1	75°	1699.0	1123.4	209.7	218.8	232.8	322.2	441.5	371.3	311.6	324.1
932.0	77.5°	647.8	431.9	173.1	185.1	187.1	281.3	422.2	369.8	296.7	289.5
279.4	80°	224.6	168.8	143.3	147.2	144.8	250.1	404.9	321.7	242.9	217.4
115.4	82.5°	91.9	84.2	113.5	108.7	102.9	194.3	327.0	263.1	198.6	175.5
55.8	85°	39.9	53.4	75.0	65.9	59.6	134.7	262.1	222.7	167.8	144.8
18.3	87.5°	8.2	20.2	31.7	29.8	30.8	89.9	186.1	158.2	118.8	89.0
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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180°
920.9
918.5
936.3
966.6
1000.8
1032.5
1054.1
1066.7
1073.9
1074.3
1067.1
1054.6
1030.1
984.9
911.3
814.2
702.6
592.5
501.1
438.6
398.2
367.4
344.3
319.8
291.4
300.1
316.4
326.1
315.0
350.1
324.1
264.0
210.2
173.6
144.3
69.7
0.0

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