

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: P939712

Luminaire Tested: **GALN-SB2B-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8089 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

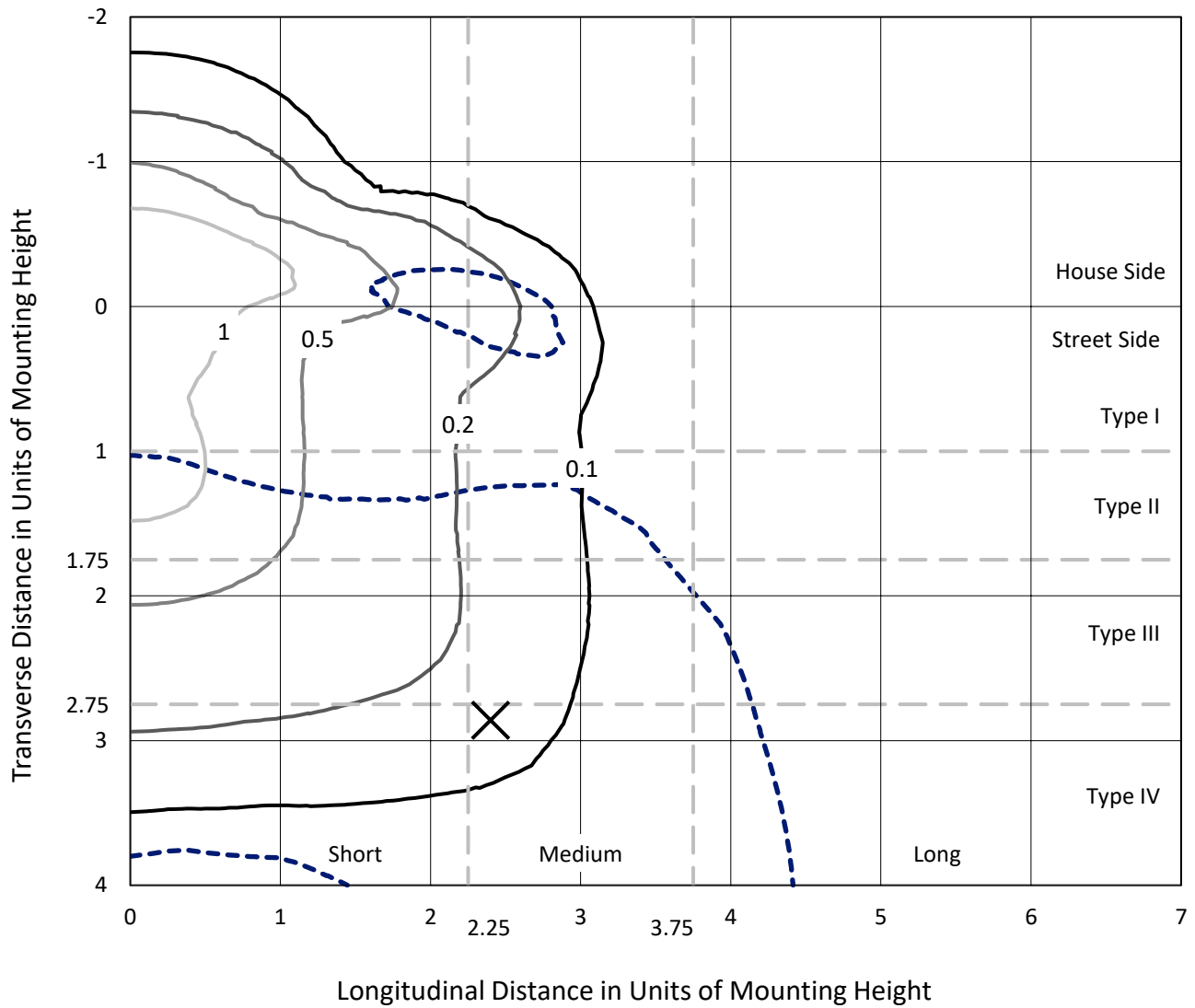
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

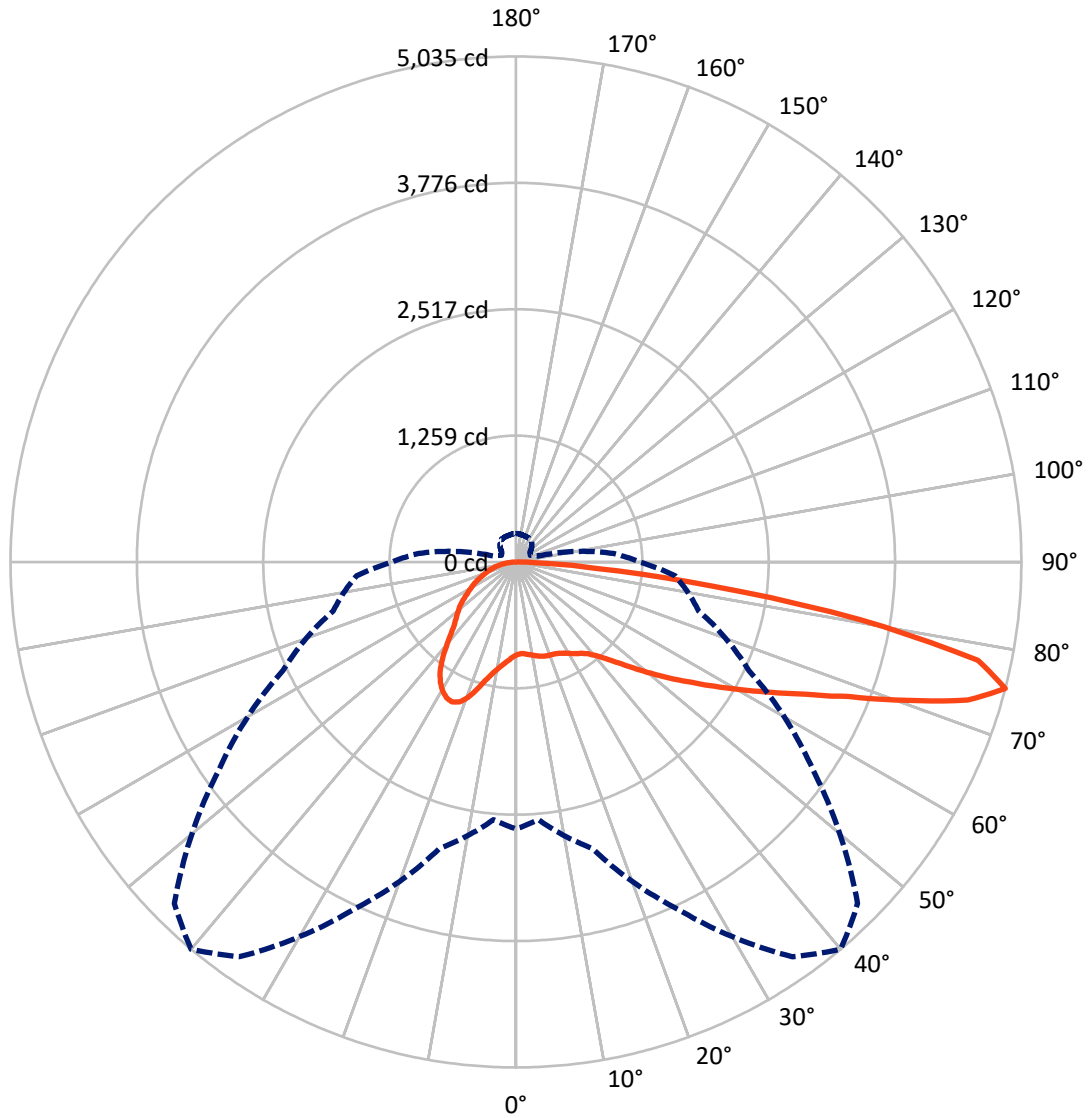
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2506.2	0.0	2506.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	5582.8	0.0	5582.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	8089.0	0.0	8089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	1.1
10°-20°	310.0	3.8
20°-30°	566.0	7.0
30°-40°	802.8	9.9
40°-50°	1084.0	13.4
50°-60°	1458.3	18.0
60°-70°	1850.9	22.9
70°-80°	1679.8	20.8
80°-90°	244.9	3.0
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°	8089.0	100.0
0°-180°	8089.0	100.0

Coefficient of Utilization



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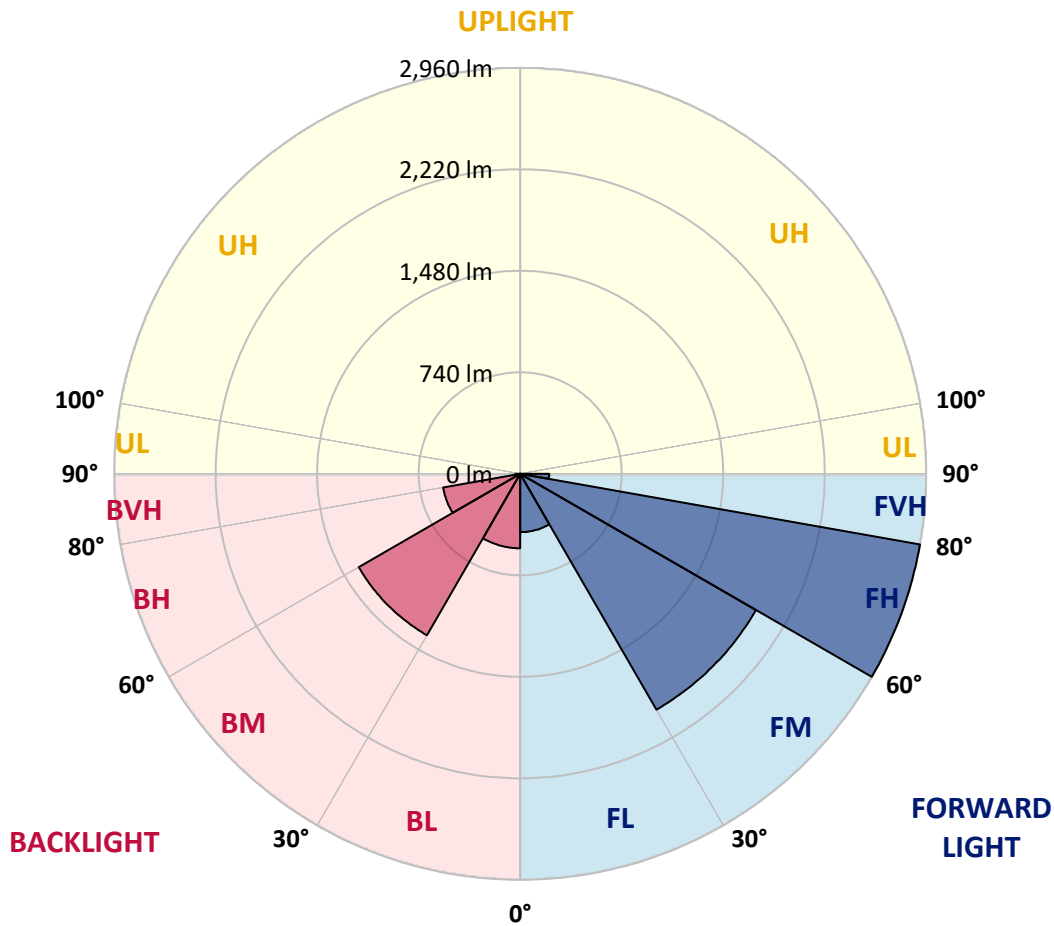
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	425.5	5.3			
FM (30°-60°)	1985.7	24.5			
FH (60°-80°)	2960.4	36.6			G2/5000
FVH (80°-90°)	211.1	2.6			G2/225
BL (0°-30°)	542.9	6.7	B2/1000		
BM (30°-60°)	1359.4	16.8	B2/2500		
BH (60°-80°)	570.2	7.0	B2/1000		G2/1000
BVH (80°-90°)	33.7	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0
2.5°	910.8	916.0	914.7	913.0	913.0	913.4	913.0	916.0	919.0	922.0
5°	920.3	925.4	922.8	920.7	919.0	918.6	917.3	916.8	918.6	922.4
7.5°	938.7	943.9	940.0	936.1	932.7	931.0	929.3	926.7	925.4	927.6
10°	959.3	964.5	959.7	952.9	947.3	945.2	943.4	940.9	939.1	940.4
12.5°	979.9	985.1	978.6	969.2	961.9	960.6	958.5	957.6	957.2	956.7
15°	999.2	1003.5	995.3	984.2	976.5	974.3	972.2	973.5	975.6	978.2
17.5°	1014.2	1018.5	1006.5	991.9	984.6	983.8	982.5	986.8	992.8	999.2
20°	1028.0	1032.2	1016.8	997.1	988.5	988.5	988.9	997.9	1006.5	1015.9
22.5°	1047.3	1050.7	1031.8	1004.8	992.3	993.2	996.6	1005.6	1016.4	1029.2
25°	1076.0	1078.6	1055.4	1019.4	1005.2	1007.8	1010.8	1015.1	1025.4	1040.4
27.5°	1122.3	1124.5	1094.0	1045.1	1023.7	1028.0	1032.2	1029.2	1034.0	1046.8
30°	1187.6	1188.8	1150.2	1085.4	1055.0	1057.1	1058.0	1045.5	1036.5	1046.8
32.5°	1264.8	1264.4	1218.4	1134.4	1090.6	1088.4	1081.2	1056.7	1035.7	1044.7
35°	1384.5	1379.8	1320.6	1203.0	1130.9	1117.6	1100.5	1069.1	1040.0	1042.5
37.5°	1582.7	1568.1	1486.2	1315.4	1191.0	1157.1	1131.8	1089.3	1049.4	1041.7
40°	1806.2	1787.8	1697.7	1469.4	1281.1	1226.6	1185.8	1118.1	1064.9	1045.5
42.5°	2071.4	2045.2	1948.2	1650.9	1395.2	1316.3	1254.9	1154.5	1087.6	1058.0
45°	2397.0	2362.2	2224.9	1855.6	1538.9	1433.8	1351.9	1209.9	1122.3	1082.0
47.5°	2726.1	2734.6	2539.4	2089.8	1711.4	1578.8	1473.3	1293.1	1173.0	1120.6
50°	3075.7	3081.7	2852.2	2349.4	1907.0	1742.7	1609.7	1386.2	1243.3	1175.5
52.5°	3348.6	3349.4	3136.2	2620.9	2110.8	1922.9	1756.9	1492.6	1324.8	1248.5
55°	3519.3	3517.2	3335.3	2877.9	2345.1	2112.1	1919.9	1613.6	1424.4	1334.3
57.5°	3643.3	3636.9	3472.6	3098.9	2594.8	2335.6	2104.4	1750.9	1541.9	1436.4
60°	3690.5	3686.7	3565.7	3289.8	2857.3	2582.8	2317.2	1904.5	1675.4	1556.9
62.5°	3708.5	3715.8	3657.0	3474.7	3138.4	2856.5	2551.0	2088.1	1825.5	1693.4
65°	3772.0	3785.3	3773.3	3716.7	3455.8	3177.0	2861.2	2306.5	1989.4	1839.7
67.5°	3897.7	3911.0	3916.2	4006.3	3843.7	3576.4	3248.2	2578.5	2181.2	1991.6
70°	3894.7	3890.9	3981.8	4236.7	4329.3	4129.4	3769.9	2913.1	2409.9	2117.7
72.5°	3545.1	3514.2	3729.1	4234.1	4733.5	4706.9	4407.0	3344.7	2607.2	2133.1
75°	2659.6	2577.2	2956.9	3815.8	4800.8	5034.7	4812.0	3612.4	2560.4	1884.7
77.5°	1137.4	1054.6	1502.0	2824.7	4296.7	4706.5	4440.5	3151.7	2043.9	1246.3
80°	297.7	297.3	453.9	1280.7	2922.1	3475.6	3049.1	2035.3	1167.8	445.3
82.5°	123.1	120.1	166.9	498.1	1427.8	1950.4	1591.7	907.8	421.7	120.6
85°	45.9	45.5	81.1	172.0	503.7	804.4	582.2	232.1	105.1	58.8
87.5°	12.9	12.4	17.6	59.6	122.7	186.2	99.5	38.2	29.6	23.2
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°
925.0	0°	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0
926.7	2.5°	928.0	930.1	934.0	937.0	940.9	945.2	951.2	955.0	958.9	961.5
928.8	5°	931.9	936.6	946.4	956.3	967.9	978.6	991.1	1000.1	1007.4	1009.5
936.6	7.5°	940.4	948.2	964.9	981.6	1000.1	1017.7	1035.7	1051.1	1063.6	1068.3
950.3	10°	955.4	965.7	989.3	1012.9	1037.4	1064.4	1087.6	1109.9	1127.5	1134.8
966.6	12.5°	974.3	987.2	1018.1	1050.7	1084.6	1121.9	1151.9	1179.4	1201.3	1211.2
989.3	15°	998.8	1015.5	1055.0	1098.7	1148.5	1200.4	1238.6	1269.1	1293.5	1305.5
1012.9	17.5°	1025.4	1047.7	1097.5	1163.5	1234.7	1303.0	1347.6	1369.9	1395.2	1406.8
1034.8	20°	1051.1	1078.6	1149.8	1245.9	1340.7	1413.2	1449.3	1455.3	1457.0	1458.3
1055.4	22.5°	1077.7	1114.6	1215.4	1349.7	1451.4	1501.6	1506.8	1481.0	1445.0	1428.2
1075.6	25°	1106.9	1155.8	1301.2	1464.3	1546.7	1552.7	1513.2	1450.5	1382.3	1351.0
1091.9	27.5°	1135.2	1203.4	1404.2	1573.7	1615.3	1562.5	1477.6	1388.8	1306.4	1273.4
1103.5	30°	1163.5	1257.9	1517.9	1669.4	1646.6	1538.1	1421.4	1322.3	1239.5	1204.7
1113.8	32.5°	1192.3	1321.4	1648.8	1738.4	1641.0	1486.2	1351.4	1247.6	1174.7	1138.2
1122.8	35°	1224.9	1399.5	1772.8	1776.2	1603.7	1409.8	1259.2	1158.4	1094.9	1065.7
1133.5	37.5°	1267.4	1498.6	1882.2	1785.6	1538.5	1297.8	1144.7	1052.8	1000.5	987.2
1149.4	40°	1320.1	1617.9	1965.8	1770.6	1442.0	1161.8	1019.4	946.0	916.4	919.4
1170.8	42.5°	1388.8	1751.3	2024.6	1732.0	1307.7	1021.5	909.5	876.9	891.1	903.1
1203.0	45°	1478.0	1889.9	2061.1	1666.4	1155.8	902.7	844.8	852.5	863.2	864.5
1254.9	47.5°	1592.1	2030.2	2085.1	1567.2	1000.9	819.0	803.6	805.3	803.1	794.1
1332.6	50°	1734.6	2166.6	2106.5	1436.0	869.2	766.7	746.1	740.1	710.5	681.3
1436.0	52.5°	1896.7	2291.9	2115.5	1272.9	766.7	722.9	689.5	651.7	596.4	587.3
1566.0	55°	2076.9	2407.7	2092.4	1072.6	680.4	666.7	616.1	570.6	564.6	556.9
1737.1	57.5°	2292.3	2532.6	2045.2	849.0	592.1	601.1	551.7	556.9	546.2	534.1
1957.2	60°	2527.8	2661.7	1962.4	645.3	500.7	519.1	535.0	534.6	531.6	521.7
2189.3	62.5°	2739.8	2746.6	1799.4	494.2	420.4	455.6	499.0	498.5	496.0	490.4
2431.7	65°	2865.9	2733.8	1527.3	389.1	354.4	403.3	450.1	453.5	453.9	453.5
2614.1	67.5°	2843.6	2583.2	1154.1	309.8	299.9	350.1	401.6	406.3	409.7	410.6
2637.2	70°	2591.3	2252.4	752.5	247.1	251.4	303.3	355.7	360.4	363.4	366.8
2288.4	72.5°	2019.9	1656.1	430.7	199.9	208.9	263.0	310.2	315.8	317.5	323.9
1592.6	75°	1230.9	973.9	232.5	157.5	171.6	224.8	265.1	271.6	274.6	282.3
782.1	77.5°	585.2	421.7	132.6	122.7	138.1	183.6	224.0	231.2	223.1	227.4
215.8	80°	197.8	156.6	83.7	93.5	105.5	143.3	179.3	186.6	169.5	168.6
71.6	82.5°	69.1	63.5	53.2	62.2	68.2	102.5	135.6	145.0	126.1	125.7
32.2	85°	27.0	25.7	29.6	33.9	40.8	63.1	89.2	94.0	77.7	62.6
9.4	87.5°	5.6	6.0	7.3	7.7	12.4	21.9	32.2	39.5	31.3	26.6
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°
925.0
959.7
1010.4
1068.7
1135.2
1211.2
1304.7
1406.4
1461.7
1433.0
1355.7
1277.2
1208.6
1142.9
1072.1
996.6
929.7
914.3
873.1
801.0
685.2
590.3
558.2
532.0
518.3
488.2
453.5
411.4
368.5
326.5
283.2
224.0
166.9
119.7
61.8
24.5
0.0

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