

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: P946001

Luminaire Tested: **GALN-SB1D-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-740-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10914 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

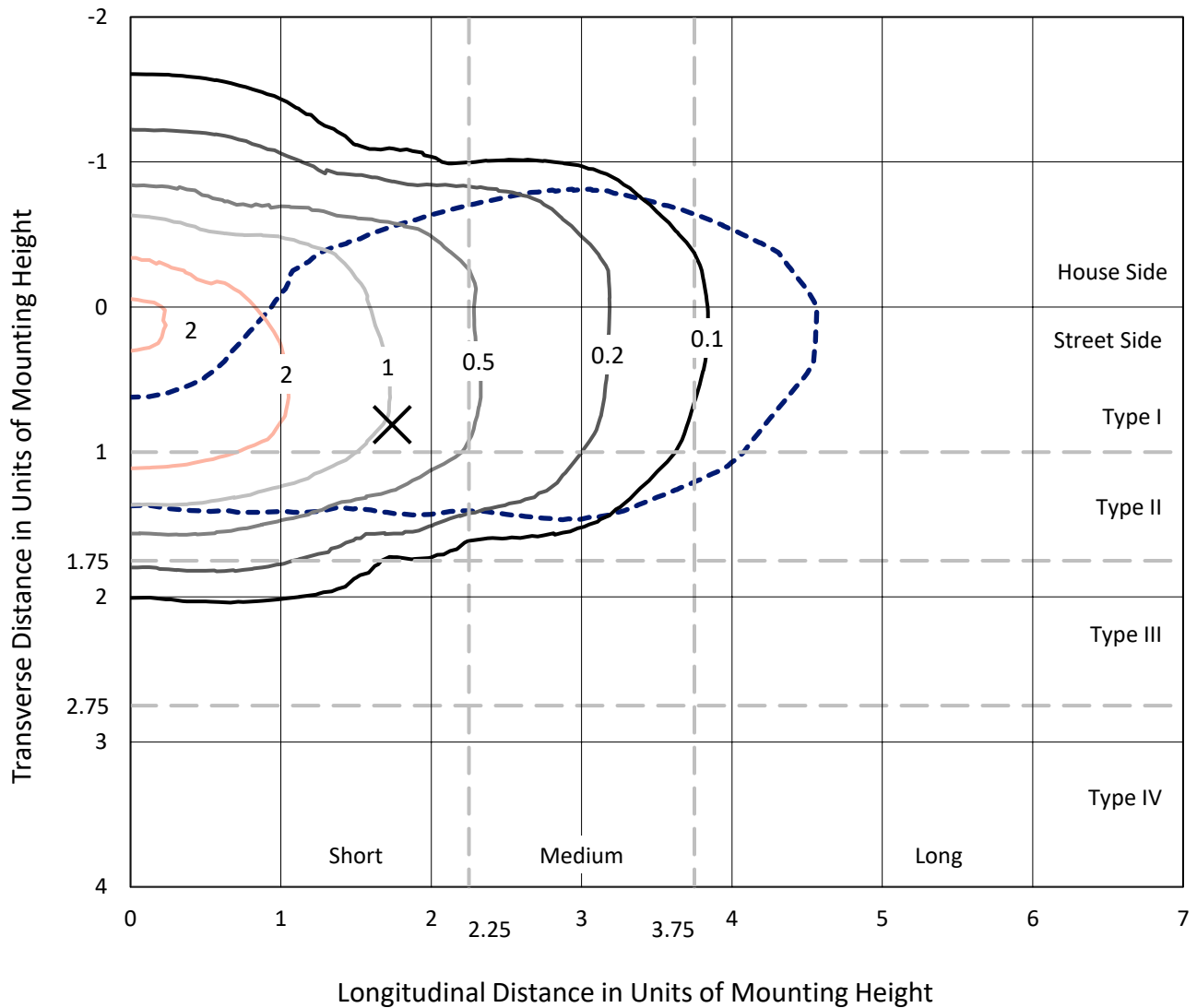
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

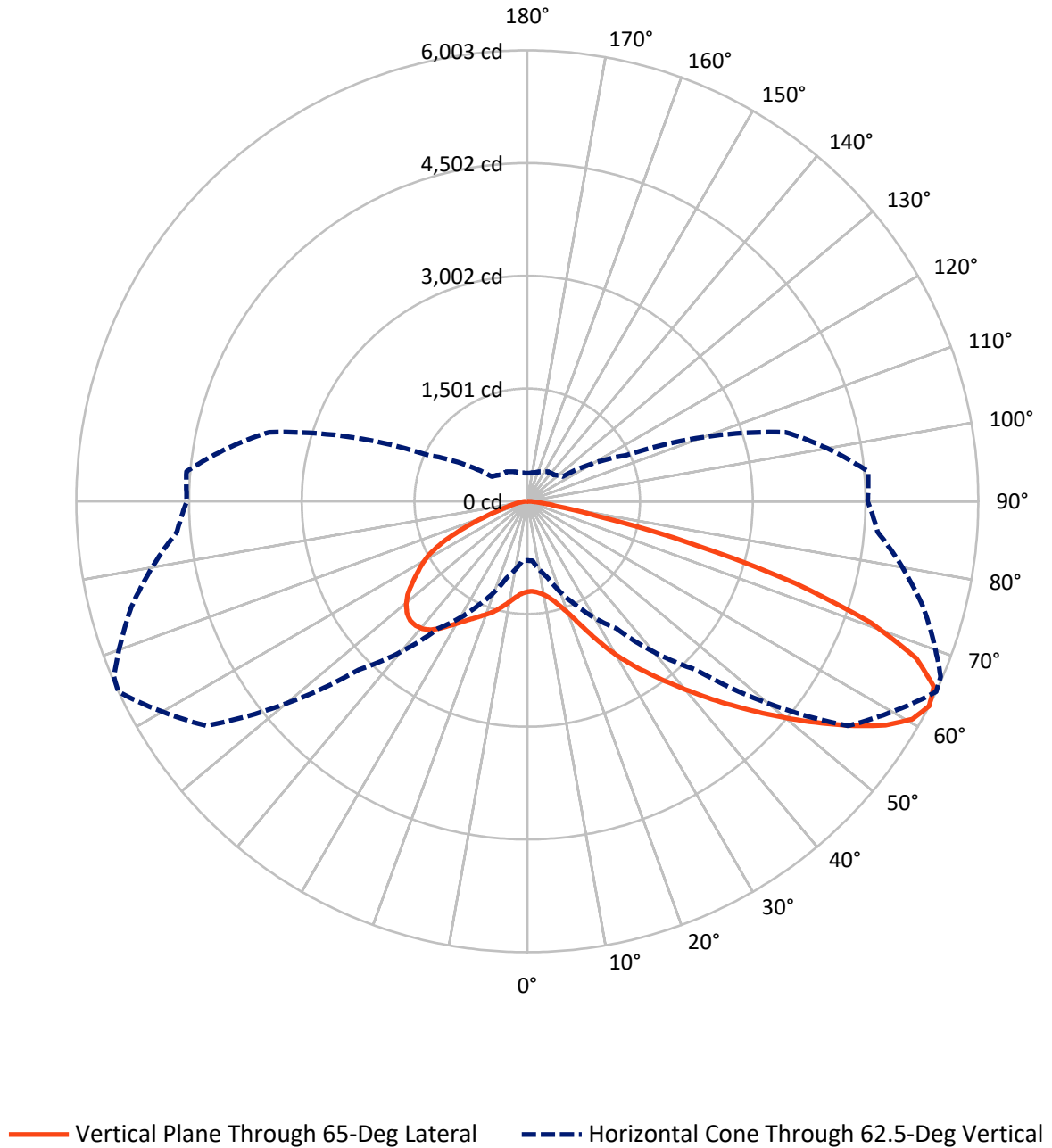
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3444.0	0.0	3444.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	7470.0	0.0	7470.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	10914.0	0.0	10914.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	1.1
10°-20°	406.6	3.7
20°-30°	824.4	7.6
30°-40°	1426.7	13.1
40°-50°	2159.0	19.8
50°-60°	2531.3	23.2
60°-70°	2122.2	19.4
70°-80°	1171.6	10.7
80°-90°	152.2	1.4
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°	10914.0	100.0
0°-180°	10914.0	100.0



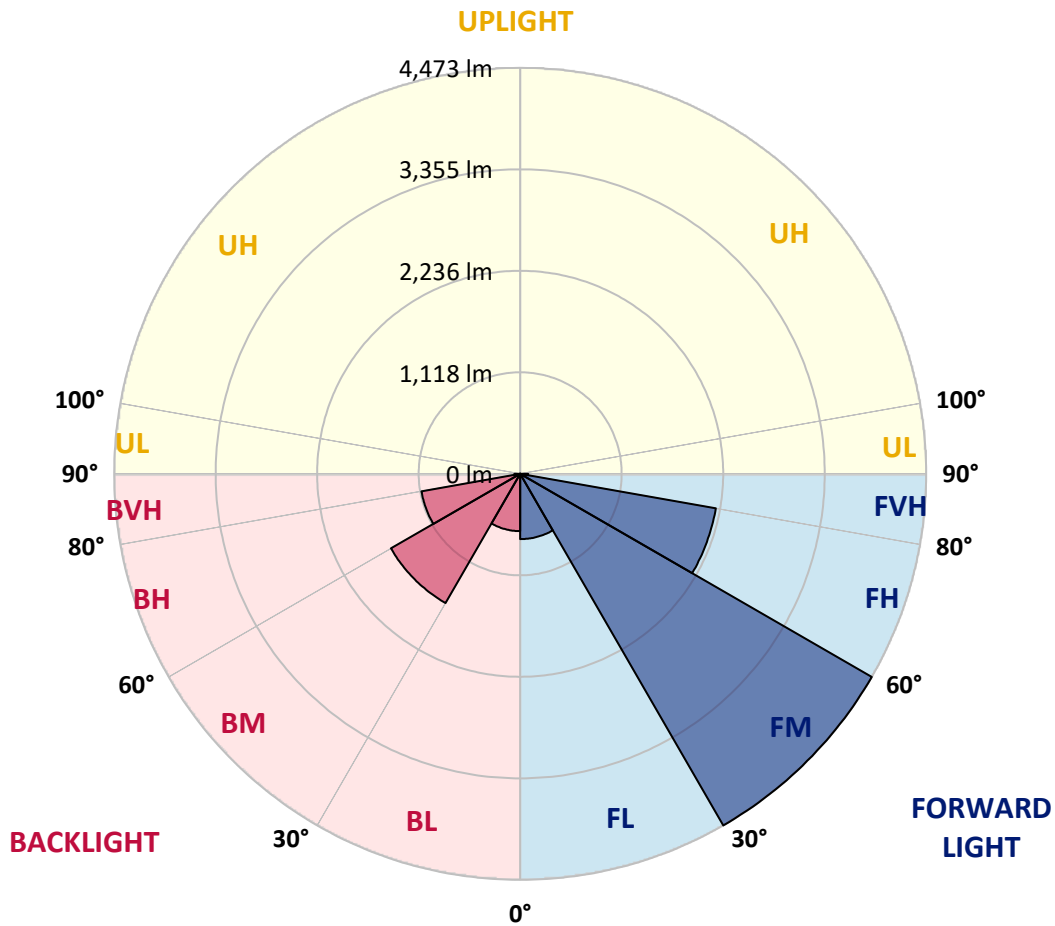
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.4	6.6			
FM (30°-60°)	4472.9	41.0			
FH (60°-80°)	2189.0	20.1			G2/5000
FVH (80°-90°)	88.7	0.8			G1/100
BL (0°-30°)	631.6	5.8	B2/1000		
BM (30°-60°)	1644.1	15.1	B2/2500		
BH (60°-80°)	1104.8	10.1	B3/2500		G3/2500
BVH (80°-90°)	63.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1202.7	1202.7	1202.7	1202.7	1202.7	1202.7	1202.7	1202.7	1202.7	1202.7
2.5°	1194.7	1191.4	1194.2	1194.2	1195.3	1194.7	1198.7	1199.8	1201.5	1204.9
5°	1182.9	1182.3	1187.4	1191.9	1196.4	1200.4	1205.5	1212.9	1214.0	1218.0
7.5°	1178.9	1175.5	1183.4	1189.1	1199.8	1209.5	1223.1	1235.5	1240.6	1242.3
10°	1209.5	1203.8	1211.2	1214.6	1223.6	1233.3	1249.1	1268.9	1274.6	1281.4
12.5°	1261.6	1255.3	1266.1	1271.2	1279.7	1288.2	1298.9	1318.2	1321.0	1333.5
15°	1332.9	1325.5	1332.3	1338.6	1352.7	1360.7	1371.4	1390.1	1390.1	1399.7
17.5°	1429.7	1420.1	1425.2	1427.5	1436.5	1448.4	1466.5	1483.0	1491.5	1488.1
20°	1574.1	1562.2	1562.2	1550.9	1547.5	1557.1	1580.9	1603.6	1612.6	1595.1
22.5°	1791.0	1774.0	1764.4	1725.9	1710.6	1711.7	1735.5	1763.2	1770.6	1739.5
25°	2066.7	2040.1	2027.1	1970.5	1935.9	1905.9	1924.6	1960.3	1970.5	1932.0
27.5°	2342.5	2344.2	2331.7	2263.8	2206.6	2151.7	2142.1	2179.4	2190.2	2146.6
30°	2729.2	2689.0	2665.3	2583.7	2502.2	2425.2	2385.5	2400.8	2403.7	2351.6
32.5°	3062.7	3052.6	3001.6	2930.2	2825.5	2704.9	2638.6	2614.3	2609.8	2535.6
35°	3442.7	3437.0	3383.2	3298.3	3185.1	3017.4	2898.0	2828.3	2822.7	2718.5
37.5°	3828.9	3828.9	3776.2	3683.3	3566.1	3356.6	3174.9	3064.4	3046.3	2910.4
40°	4136.9	4118.2	4127.8	4088.8	3954.6	3732.0	3482.3	3322.1	3297.7	3134.7
42.5°	4311.9	4305.6	4363.4	4407.0	4352.1	4174.3	3820.9	3601.2	3567.3	3381.5
45°	4350.9	4344.1	4447.2	4606.9	4683.9	4610.8	4189.0	3895.1	3853.8	3639.7
47.5°	4260.9	4247.3	4398.5	4650.5	4897.3	5025.9	4587.6	4213.9	4153.9	3891.1
50°	3990.2	3977.2	4206.0	4540.6	4969.2	5307.9	5020.2	4551.9	4460.2	4160.7
52.5°	3401.9	3408.1	3766.6	4226.4	4874.7	5483.4	5392.8	4908.1	4797.7	4436.4
55°	2650.0	2663.6	3104.1	3610.3	4496.4	5456.8	5647.0	5275.0	5165.2	4695.8
57.5°	1897.4	1957.5	2370.2	2871.4	3770.0	5034.9	5702.5	5623.8	5517.4	4978.9
60°	1229.9	1240.6	1665.3	2170.4	2870.8	4285.2	5589.8	5888.2	5805.0	5267.7
62.5°	788.2	795.6	1054.3	1518.1	2066.2	3170.3	5210.5	6003.2	5977.7	5458.5
65°	579.3	573.6	708.4	1003.4	1391.8	1955.2	4473.8	5947.7	5998.1	5577.9
67.5°	483.6	475.6	541.9	694.8	1025.4	1110.4	3310.2	5587.0	5771.6	5564.4
70°	440.5	433.7	473.9	515.8	800.1	743.5	1668.7	4857.1	5141.4	5409.8
72.5°	373.1	361.3	416.2	458.1	622.3	570.2	689.7	3730.9	4077.4	4914.3
75°	289.3	281.4	328.4	403.2	467.7	445.1	436.0	2265.5	2643.7	3800.5
77.5°	229.3	218.6	261.6	314.3	420.7	335.8	317.7	975.6	1350.5	2426.3
80°	172.7	163.1	198.7	248.6	323.3	253.1	205.5	398.1	509.0	1229.3
82.5°	122.9	114.4	138.7	182.3	217.4	227.1	126.3	223.1	250.8	473.9
85°	78.7	73.6	92.9	114.4	138.2	146.1	77.0	116.6	128.0	195.3
87.5°	43.0	35.1	49.8	53.2	64.0	58.3	36.8	42.5	45.9	70.8
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°
1202.7	0°	1202.7	1202.7	1202.7	1202.7	1202.7	1202.7	1202.7	1202.7	1202.7	1202.7
1204.9	2.5°	1207.2	1208.9	1214.6	1216.3	1220.2	1225.3	1228.7	1232.1	1232.1	1235.5
1223.1	5°	1223.6	1227.6	1239.5	1245.7	1255.9	1266.1	1272.3	1279.7	1284.2	1286.5
1251.9	7.5°	1255.3	1261.6	1278.6	1289.3	1306.9	1321.0	1330.6	1340.8	1343.1	1349.3
1292.1	10°	1298.4	1305.7	1325.0	1345.4	1366.3	1383.9	1392.9	1400.3	1403.1	1404.3
1343.7	12.5°	1347.6	1358.4	1383.3	1408.2	1430.3	1445.6	1447.9	1446.2	1438.2	1431.4
1407.1	15°	1408.2	1417.8	1445.6	1472.8	1494.3	1497.1	1483.0	1473.9	1464.3	1462.6
1477.9	17.5°	1480.7	1485.8	1511.3	1537.9	1539.6	1530.0	1509.0	1500.5	1491.5	1485.2
1570.2	20°	1565.1	1563.4	1581.5	1592.8	1580.9	1551.5	1519.8	1505.6	1496.5	1489.2
1683.4	22.5°	1665.9	1652.8	1650.6	1647.7	1616.0	1554.3	1511.3	1493.2	1479.0	1468.8
1841.4	25°	1812.5	1762.7	1728.1	1708.9	1637.5	1539.0	1484.1	1443.9	1417.3	1399.7
2034.5	27.5°	1996.0	1912.2	1825.0	1778.0	1637.5	1507.9	1418.4	1353.3	1309.7	1291.6
2221.3	30°	2170.9	2083.2	1954.6	1861.2	1633.6	1456.9	1312.5	1221.9	1171.0	1152.8
2381.0	32.5°	2320.4	2224.7	2092.2	1952.4	1624.0	1374.2	1181.2	1080.9	1031.7	1010.2
2539.0	35°	2459.1	2357.2	2230.4	2052.6	1598.5	1253.1	1036.8	960.3	905.4	870.9
2699.8	37.5°	2601.3	2480.1	2361.2	2143.2	1552.6	1111.5	925.8	860.7	796.1	749.7
2870.8	40°	2755.8	2610.9	2501.0	2197.0	1477.3	976.7	839.7	780.3	711.8	662.5
3067.8	42.5°	2936.5	2767.7	2656.8	2224.7	1374.2	881.1	783.7	725.3	660.8	620.6
3279.0	45°	3125.0	2940.4	2798.9	2224.2	1259.3	836.3	765.5	707.8	636.4	594.5
3495.9	47.5°	3322.6	3121.1	2921.8	2187.9	1159.6	842.6	755.4	669.9	591.1	550.4
3715.0	50°	3520.8	3318.7	3040.7	2120.0	1117.2	829.0	717.4	616.6	523.8	487.0
3920.6	52.5°	3717.3	3528.8	3143.2	2023.1	1074.1	778.6	668.7	547.5	496.0	470.5
4132.9	55°	3914.9	3736.6	3254.7	1882.2	966.6	719.7	587.2	521.5	473.9	450.7
4340.7	57.5°	4113.1	3976.6	3360.6	1741.2	831.2	647.2	542.4	489.8	451.9	432.0
4514.6	60°	4319.2	4251.3	3469.9	1611.5	697.6	554.3	509.6	464.3	425.8	403.7
4681.6	62.5°	4531.5	4553.6	3555.4	1444.5	574.7	497.7	480.2	433.7	396.4	375.4
4819.8	65°	4745.6	4845.2	3611.4	1212.9	466.0	443.9	448.5	400.3	362.4	344.3
4921.1	67.5°	4907.0	5055.3	3595.6	917.9	382.2	393.0	408.8	365.2	329.5	315.4
4904.7	70°	4925.1	5030.4	3439.3	628.5	319.9	343.1	364.7	330.7	293.9	283.7
4673.7	72.5°	4683.9	4690.7	3003.9	410.5	270.7	301.2	318.2	295.6	259.9	249.7
4088.8	75°	4051.4	3879.3	2205.5	270.7	226.5	258.8	274.6	258.8	224.2	226.5
3059.3	77.5°	3069.5	2747.4	1339.1	192.5	189.1	217.4	238.9	227.6	198.2	222.5
1538.5	80°	1581.5	1486.4	597.4	143.8	149.5	173.8	196.5	181.8	156.8	149.5
343.7	82.5°	362.4	421.3	235.6	103.1	108.2	125.1	150.1	136.5	112.7	95.1
143.3	85°	126.8	138.7	104.2	64.6	63.4	78.1	101.9	91.2	76.4	61.2
60.6	87.5°	40.2	52.7	39.1	26.0	27.2	35.1	47.0	43.0	35.7	23.2
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°
1202.7
1235.5
1287.6
1347.1
1401.4
1431.4
1462.6
1485.8
1489.8
1472.2
1406.5
1300.6
1163.6
1020.9
882.2
762.1
672.1
628.5
601.3
556.0
489.2
470.5
448.5
428.6
402.0
374.8
343.7
316.0
284.2
249.1
218.6
195.9
136.5
94.0
64.6
24.3
0.0

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