

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: P939315

Luminaire Tested: **GALN-SB1D-835-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-835-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9355 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

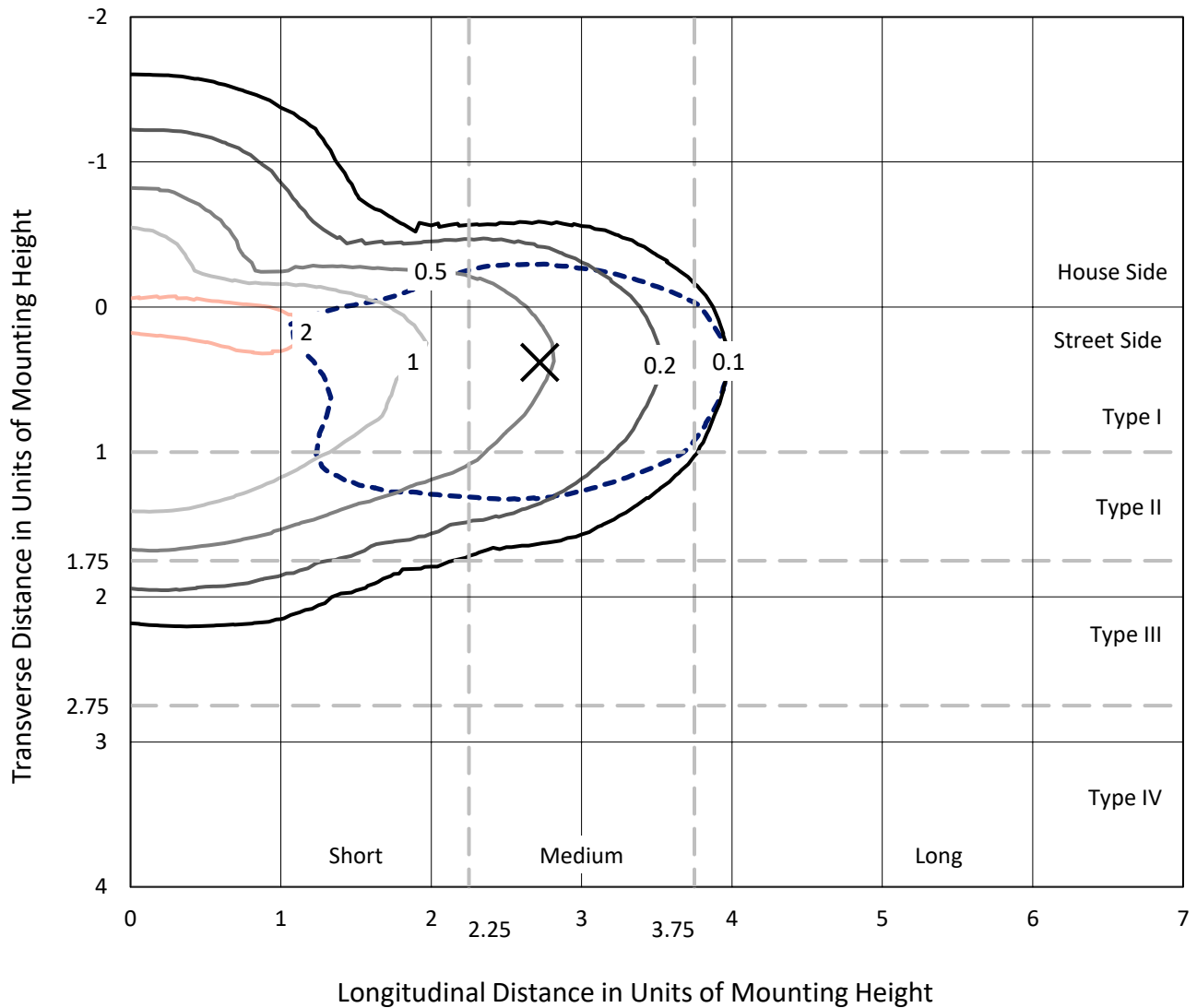
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

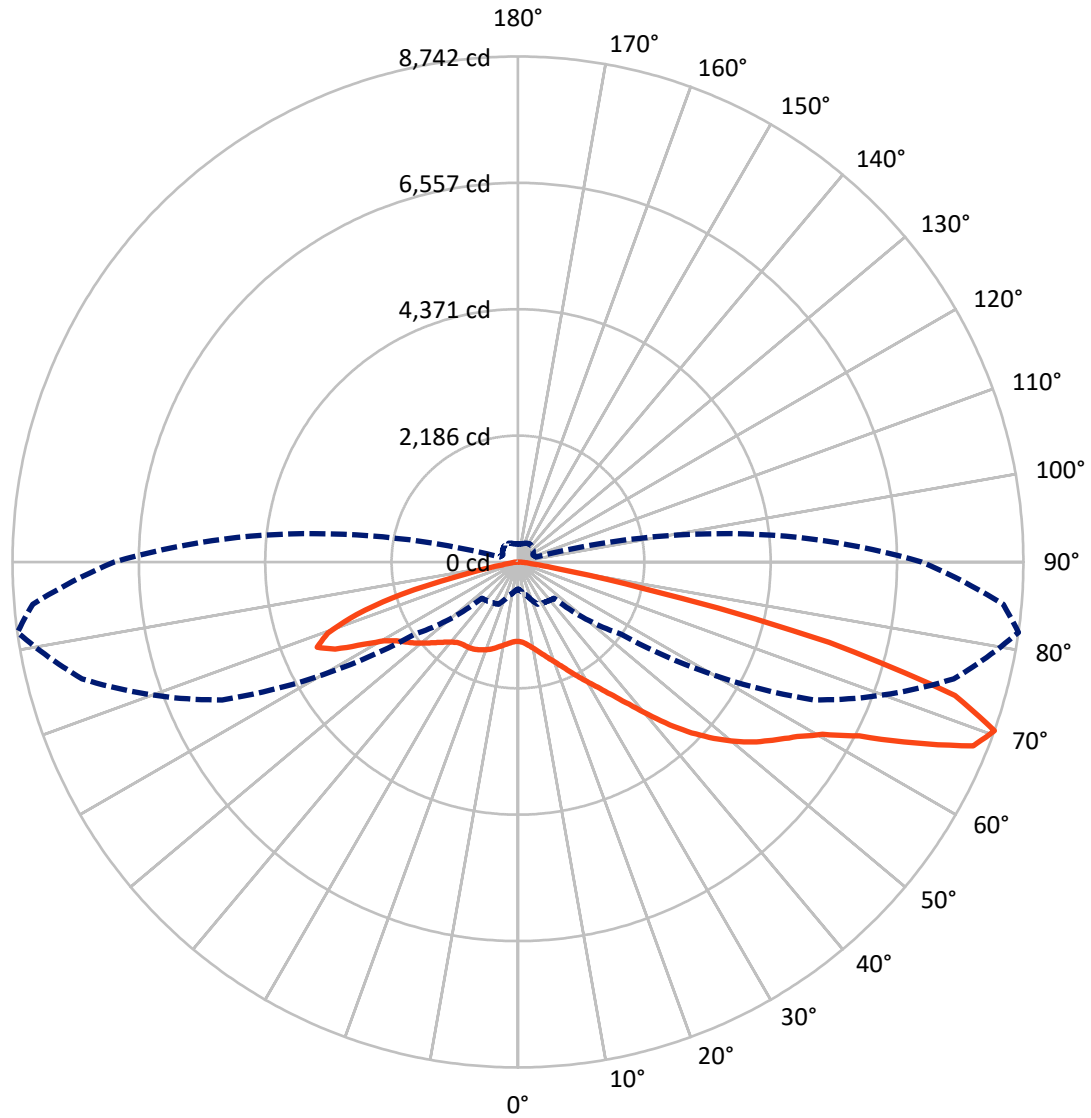
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2306.2	0.0	2306.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	7048.8	0.0	7048.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	9355.0	0.0	9355.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.4
10°-20°	372.1	4.0
20°-30°	622.4	6.7
30°-40°	972.4	10.4
40°-50°	1548.6	16.6
50°-60°	2155.1	23.0
60°-70°	2254.3	24.1
70°-80°	1178.2	12.6
80°-90°	122.3	1.3
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°	9355.0	100.0
0°-180°	9355.0	100.0

Coefficient of Utilization



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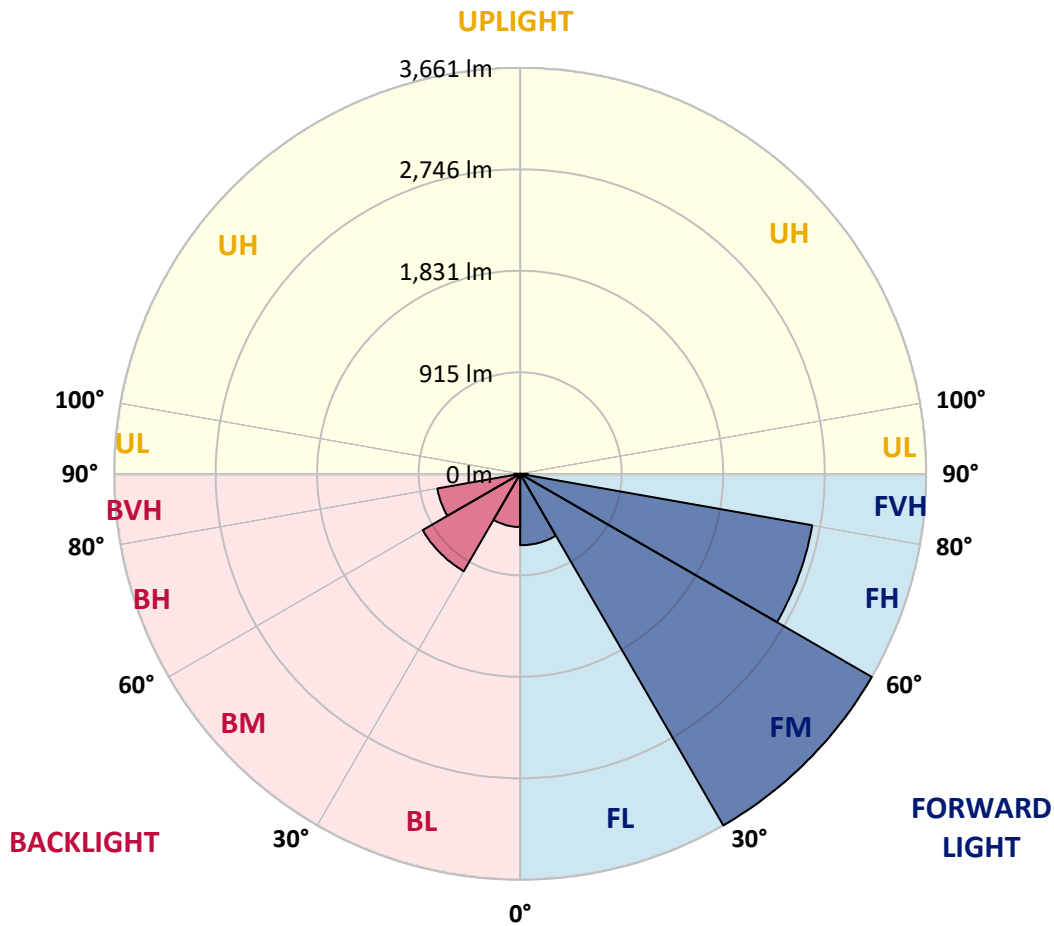
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	644.2	6.9			
FM (30°-60°)	3661.5	39.1			
FH (60°-80°)	2674.6	28.6			G2/5000
FVH (80°-90°)	68.5	0.7			G1/100
BL (0°-30°)	479.8	5.1	B1/500		
BM (30°-60°)	1014.6	10.8	B2/2500		
BH (60°-80°)	758.0	8.1	B2/1000		G2/1000
BVH (80°-90°)	53.9	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1371.6	1371.6	1371.6	1371.6	1371.6	1371.6	1371.6	1371.6	1371.6	1371.6
2.5°	1404.3	1412.3	1409.8	1407.3	1407.3	1403.8	1403.3	1398.4	1394.4	1387.9
5°	1422.2	1430.6	1429.6	1431.6	1438.1	1439.6	1441.1	1438.1	1430.1	1422.2
7.5°	1406.3	1415.7	1418.7	1430.6	1450.5	1468.4	1481.8	1487.2	1479.8	1468.4
10°	1352.7	1363.1	1373.5	1401.8	1437.1	1479.3	1515.0	1536.4	1534.9	1524.0
12.5°	1244.0	1254.9	1277.2	1332.3	1396.9	1471.3	1537.9	1582.5	1597.9	1590.0
15°	1157.1	1166.5	1183.4	1240.0	1323.9	1437.1	1546.3	1633.2	1672.4	1667.9
17.5°	1154.6	1158.6	1169.0	1195.8	1260.4	1383.5	1537.4	1682.8	1757.8	1757.3
20°	1198.3	1199.8	1205.8	1211.2	1248.0	1342.8	1514.5	1724.0	1853.6	1853.6
22.5°	1258.9	1257.9	1263.8	1258.9	1276.7	1339.3	1500.1	1760.2	1960.3	1968.2
25°	1349.7	1344.8	1343.3	1331.8	1335.3	1371.6	1516.0	1801.4	2086.9	2103.3
27.5°	1470.8	1462.9	1457.4	1431.1	1422.2	1438.1	1564.7	1851.1	2227.9	2256.1
30°	1628.7	1614.3	1606.4	1560.7	1528.4	1530.9	1638.1	1917.1	2375.3	2421.0
32.5°	1844.1	1821.8	1800.5	1725.5	1666.4	1647.1	1732.9	2008.4	2535.1	2608.1
35°	2085.4	2067.5	2044.7	1929.0	1838.2	1793.5	1861.0	2136.0	2722.3	2837.9
37.5°	2317.7	2302.3	2313.2	2157.4	2040.2	1975.2	2028.8	2307.3	2953.1	3123.9
40°	2558.0	2546.0	2547.5	2398.6	2262.1	2189.1	2232.3	2522.2	3217.7	3463.9
42.5°	2819.1	2810.1	2780.4	2648.3	2494.9	2426.9	2466.6	2770.4	3501.6	3851.1
45°	3111.5	3106.0	3078.2	2926.8	2751.1	2674.6	2728.2	3044.4	3787.1	4215.4
47.5°	3364.1	3368.6	3365.1	3237.5	3055.4	2943.2	3007.2	3330.4	4052.6	4558.0
50°	3485.7	3509.1	3543.3	3503.6	3390.4	3276.3	3288.7	3606.4	4305.8	4879.1
52.5°	3422.2	3466.4	3559.7	3623.2	3666.9	3643.1	3609.8	3880.4	4544.1	5169.0
55°	3185.4	3247.5	3402.3	3555.7	3778.6	3951.9	3995.5	4184.2	4776.4	5424.2
57.5°	2754.0	2854.8	2993.8	3304.1	3679.3	4101.3	4445.3	4605.6	5022.6	5696.7
60°	2014.4	2149.4	2322.2	2783.8	3331.9	4021.4	4828.0	5252.9	5372.6	6049.7
62.5°	1289.2	1372.6	1531.4	1966.3	2596.2	3611.8	4945.2	6062.1	5965.8	6628.5
65°	882.6	936.2	1081.7	1325.9	1678.3	2688.5	4631.4	6668.7	6907.9	7545.8
67.5°	641.4	682.1	806.2	1020.1	1093.6	1591.0	3594.0	6640.9	7823.8	8491.0
70°	467.6	496.4	600.6	806.2	841.4	885.1	2177.2	5645.1	7803.9	8742.1
72.5°	346.5	366.3	436.3	625.5	681.1	597.7	1077.7	4102.8	6705.9	7907.2
75°	250.7	265.6	317.2	478.5	545.0	455.2	537.6	2397.6	4677.6	5562.2
77.5°	191.6	203.0	236.8	350.5	436.3	341.5	333.6	1103.0	2217.9	2228.8
80°	153.9	161.3	179.7	246.7	334.6	255.6	217.4	445.3	700.9	593.2
82.5°	113.2	125.6	151.9	173.2	239.3	176.2	132.5	224.9	266.6	229.3
85°	64.5	73.0	91.8	124.1	152.9	107.7	75.9	99.8	124.1	101.8
87.5°	22.8	29.8	32.3	48.6	66.5	44.7	29.3	28.8	40.7	30.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939315
 CATALOG NUMBER: GALN-SB1D-835-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1371.6	0°	1371.6	1371.6	1371.6	1371.6	1371.6	1371.6	1371.6	1371.6	1371.6	1371.6
1386.5	2.5°	1381.5	1379.0	1369.1	1355.7	1341.8	1328.4	1323.9	1314.5	1308.0	1304.5
1418.7	5°	1409.3	1401.3	1378.0	1348.2	1317.0	1283.2	1259.4	1237.5	1221.6	1206.8
1462.9	7.5°	1449.0	1435.1	1394.9	1342.8	1287.2	1231.1	1189.4	1157.6	1136.3	1122.4
1514.5	10°	1495.2	1473.8	1412.3	1334.3	1248.5	1168.0	1118.9	1091.6	1078.2	1070.7
1573.6	12.5°	1548.3	1518.0	1430.1	1315.0	1189.4	1097.5	1063.8	1055.8	1056.3	1056.8
1648.1	15°	1613.8	1571.6	1444.5	1272.8	1112.4	1043.4	1037.5	1050.4	1063.8	1070.2
1732.4	17.5°	1687.8	1628.2	1447.0	1203.3	1037.0	1008.7	1027.6	1055.4	1075.7	1084.6
1826.8	20°	1767.2	1685.8	1429.1	1105.0	974.9	980.4	1014.2	1049.9	1072.2	1083.6
1934.5	22.5°	1858.0	1747.3	1386.5	1001.7	924.3	949.6	989.3	1024.1	1047.4	1058.8
2061.1	25°	1961.8	1816.3	1319.4	914.9	880.6	914.9	954.6	983.4	1002.2	1012.7
2202.5	27.5°	2076.9	1888.3	1230.1	845.9	842.4	879.1	911.9	934.2	944.2	952.1
2352.9	30°	2192.6	1953.8	1121.9	793.7	809.1	843.9	867.2	877.1	880.1	881.6
2520.7	32.5°	2317.7	2010.4	1008.2	750.6	777.4	809.6	823.5	828.0	814.1	804.7
2724.3	35°	2469.1	2071.0	897.0	716.3	746.1	773.9	778.4	774.4	758.0	738.6
2979.4	37.5°	2656.2	2146.4	808.1	692.0	716.8	735.2	729.7	728.7	730.2	707.4
3286.2	40°	2885.6	2244.7	743.1	673.1	693.0	696.9	681.6	690.0	697.4	662.7
3622.7	42.5°	3140.2	2363.4	701.9	660.2	673.1	663.7	639.9	649.3	648.3	602.6
3960.8	45°	3399.9	2492.4	687.5	650.8	654.8	635.9	609.6	612.1	591.2	550.0
4284.9	47.5°	3658.0	2630.9	696.5	642.8	631.9	610.6	590.2	579.3	548.5	517.7
4595.7	50°	3911.2	2776.4	729.2	627.0	600.6	588.2	573.3	554.0	521.2	494.9
4889.6	52.5°	4146.0	2922.8	765.9	600.6	561.4	568.9	559.4	537.1	504.8	478.0
5167.5	55°	4368.3	3069.3	780.3	564.4	524.7	552.0	546.5	505.3	466.6	444.8
5458.4	57.5°	4610.6	3245.5	764.5	518.2	494.9	532.6	511.8	466.1	443.8	427.4
5837.2	60°	4946.2	3522.0	730.2	461.2	466.6	503.8	468.1	449.2	424.9	406.6
6405.1	62.5°	5503.6	4037.7	675.1	404.6	433.4	461.2	447.3	428.4	403.6	385.7
7376.0	65°	6327.6	4754.5	571.4	360.4	396.1	419.5	424.9	406.1	380.2	361.4
8226.9	67.5°	7022.6	5204.3	432.4	323.7	357.9	385.7	401.1	382.7	355.4	337.1
8425.9	70°	6984.4	4877.7	330.1	287.4	324.2	352.4	372.3	357.9	328.6	311.2
7653.5	72.5°	6203.5	4080.4	267.1	250.7	289.9	317.7	341.5	330.6	300.8	283.9
5606.9	75°	4557.5	2896.5	213.5	213.5	247.2	281.5	307.8	300.8	273.5	261.6
2353.9	77.5°	1921.1	1215.2	167.3	177.2	205.5	241.7	274.5	277.0	253.2	268.1
622.5	80°	510.8	335.1	127.6	139.5	161.3	199.6	238.8	237.8	212.0	198.1
231.3	82.5°	194.6	132.0	90.8	98.3	116.7	152.9	189.1	195.1	169.3	146.4
90.8	85°	75.0	56.6	56.1	59.1	68.0	101.3	143.0	147.9	127.6	108.2
25.3	87.5°	19.4	16.9	20.8	19.9	31.3	54.1	81.9	84.9	77.9	45.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1371.6
1308.5
1212.7
1125.3
1072.7
1057.8
1069.7
1086.6
1086.6
1061.8
1015.6
955.1
885.1
807.6
739.6
708.9
663.7
602.1
551.5
517.7
492.9
478.5
442.8
425.9
405.6
385.7
362.4
337.6
312.7
283.9
258.1
243.2
184.2
146.4
111.7
64.5
0.0

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