

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: P939297

Luminaire Tested: **GALN-SB1D-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8858 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

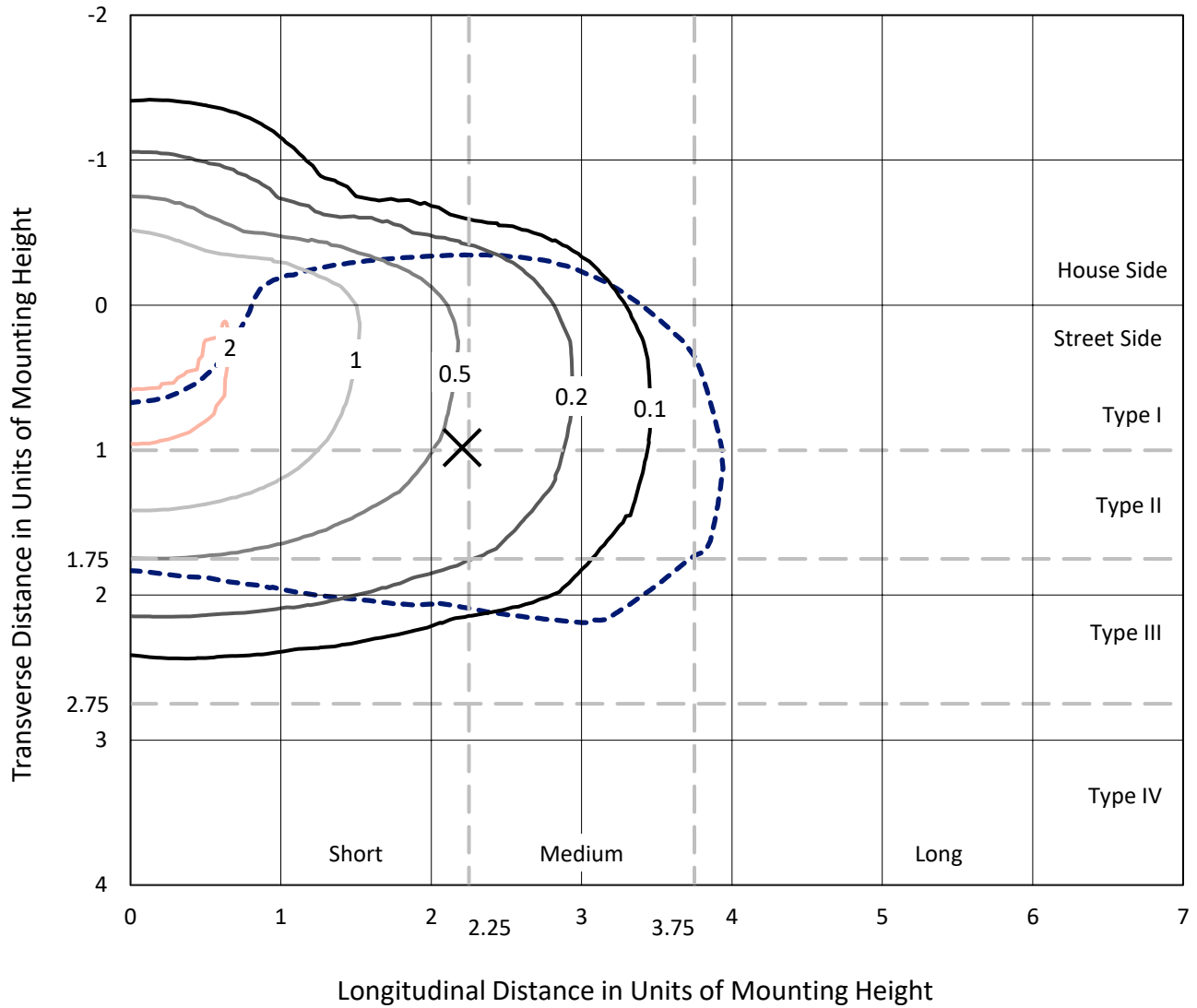
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

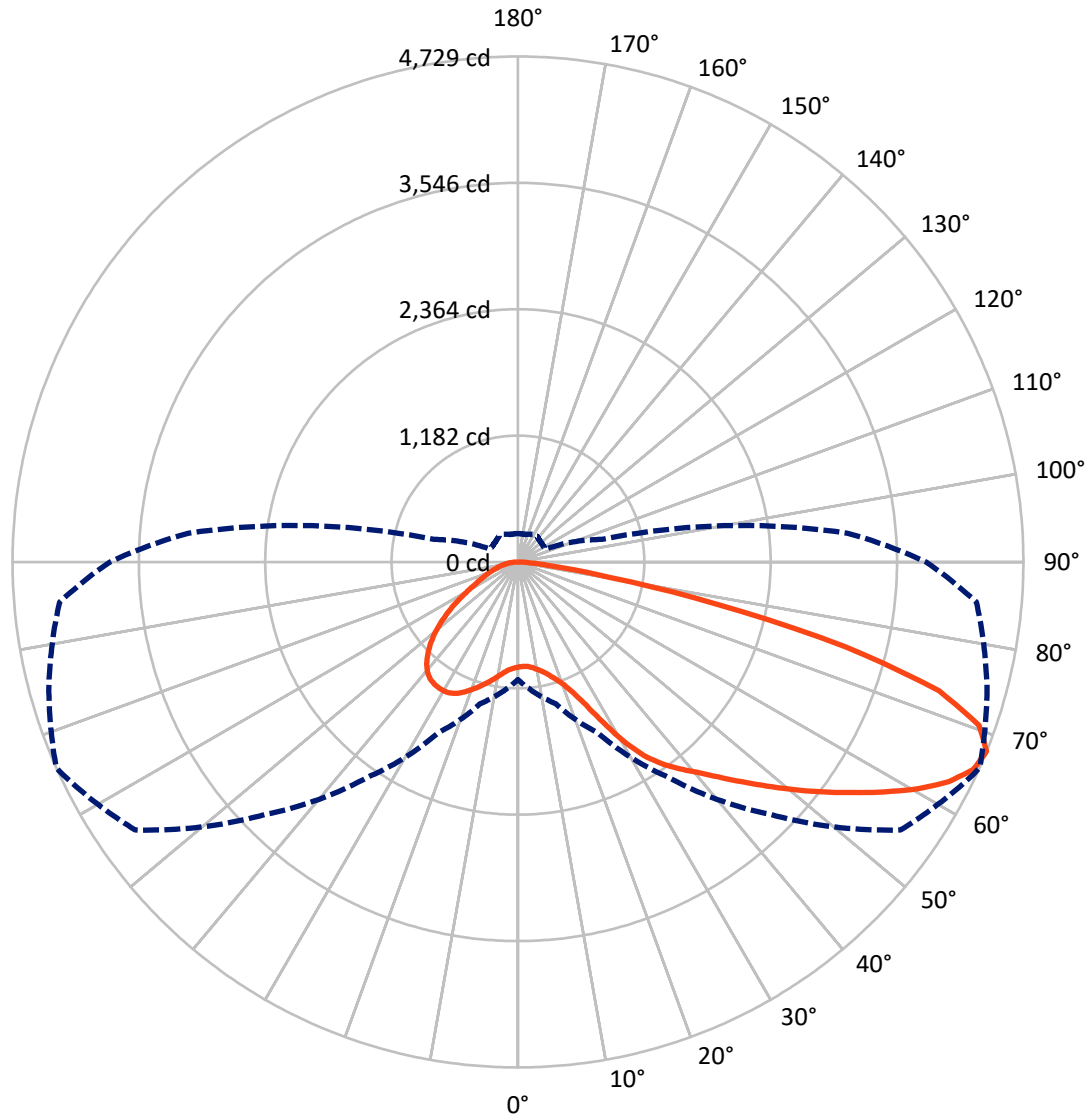
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2202.5	0.0	2202.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	6655.5	0.0	6655.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	8858.0	0.0	8858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	1.1
10°-20°	321.8	3.6
20°-30°	620.3	7.0
30°-40°	1087.6	12.3
40°-50°	1616.9	18.3
50°-60°	2049.6	23.1
60°-70°	2005.5	22.6
70°-80°	956.6	10.8
80°-90°	102.2	1.2
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°	8858.0	100.0
0°-180°	8858.0	100.0

Coefficient of Utilization



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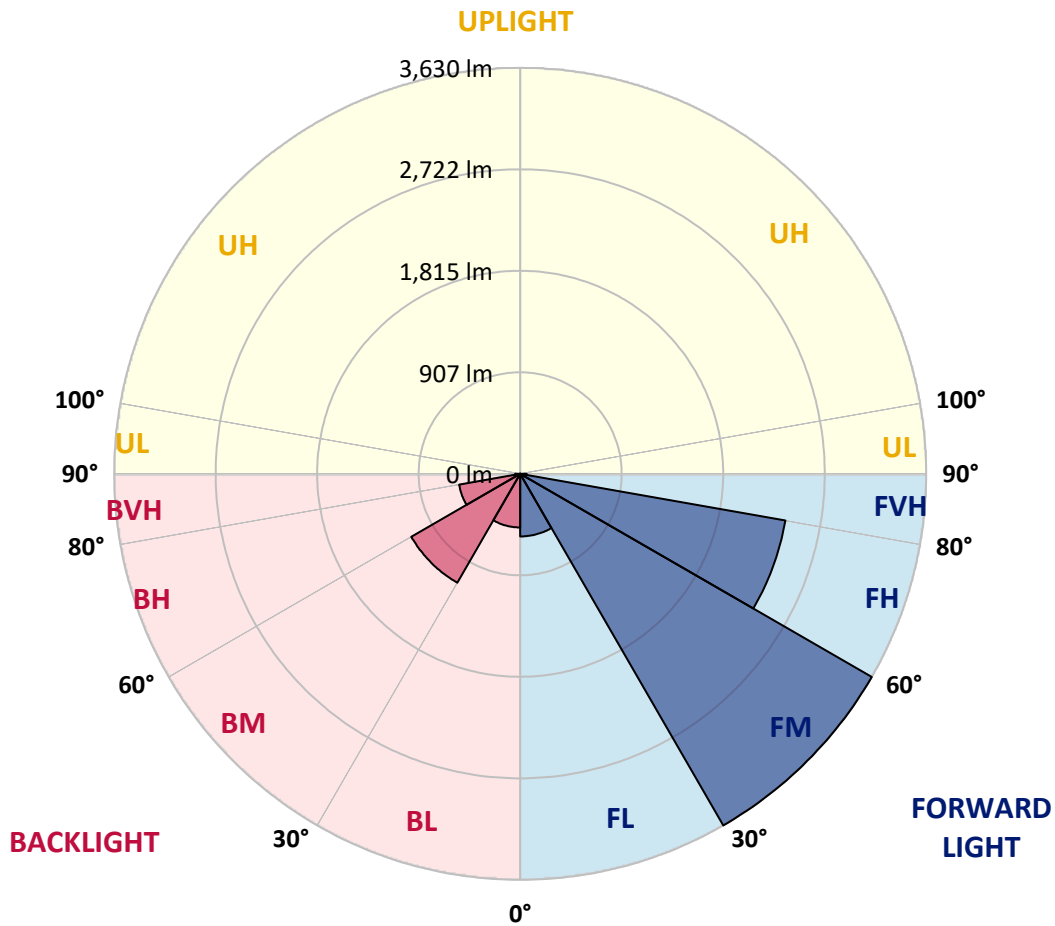
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	559.7	6.3			
FM (30°-60°)	3629.9	41.0			
FH (60°-80°)	2407.9	27.2			G2/5000
FVH (80°-90°)	58.0	0.7			G1/100
BL (0°-30°)	479.8	5.4	B1/500		
BM (30°-60°)	1124.2	12.7	B2/2500		
BH (60°-80°)	554.3	6.3	B2/1000		G2/1000
BVH (80°-90°)	44.3	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5
2.5°	972.2	977.8	976.4	974.1	973.6	974.6	976.0	977.3	976.9	979.2
5°	969.4	975.0	974.6	974.6	976.4	980.1	982.5	984.8	982.5	985.3
7.5°	971.3	975.5	977.3	979.2	983.9	990.8	996.4	1001.6	998.8	1002.0
10°	995.0	998.3	1000.2	1000.2	1003.4	1011.3	1016.9	1026.2	1023.9	1029.0
12.5°	1038.3	1041.6	1041.6	1039.7	1042.0	1047.2	1049.0	1059.3	1055.1	1063.4
15°	1091.4	1097.9	1092.8	1089.5	1090.4	1095.6	1095.1	1103.0	1098.8	1105.8
17.5°	1150.0	1158.4	1150.0	1149.5	1147.7	1153.3	1153.7	1160.7	1153.3	1158.4
20°	1219.4	1231.0	1224.0	1226.3	1222.2	1224.5	1226.8	1237.0	1225.4	1229.1
22.5°	1317.1	1331.1	1323.6	1332.5	1329.7	1327.8	1327.3	1345.5	1327.3	1328.7
25°	1459.5	1476.3	1463.2	1475.3	1475.3	1481.4	1488.4	1511.6	1481.4	1472.5
27.5°	1669.9	1686.6	1661.0	1668.5	1666.1	1681.0	1673.6	1731.3	1698.7	1684.3
30°	1923.1	1952.8	1904.4	1902.6	1900.2	1924.0	1934.7	1972.9	1939.8	1925.4
32.5°	2196.7	2227.9	2170.2	2153.4	2144.6	2159.0	2150.2	2180.9	2158.1	2135.7
35°	2486.2	2516.9	2462.0	2429.4	2394.0	2363.8	2332.1	2340.1	2318.6	2284.7
37.5°	2759.8	2816.2	2758.0	2723.1	2657.9	2598.8	2510.4	2473.6	2453.6	2422.4
40°	3038.6	3070.7	3026.5	2996.7	2926.0	2833.4	2691.9	2614.2	2587.2	2556.9
42.5°	3243.9	3274.6	3250.9	3230.4	3175.0	3067.5	2884.6	2787.3	2748.2	2714.2
45°	3406.8	3429.6	3414.7	3422.1	3398.4	3294.1	3084.2	2973.0	2932.5	2891.1
47.5°	3472.4	3496.6	3520.3	3564.5	3605.0	3528.2	3298.8	3174.1	3131.2	3088.9
50°	3464.9	3489.6	3558.5	3652.5	3778.2	3752.6	3525.0	3388.1	3348.6	3300.2
52.5°	3405.4	3433.3	3521.7	3678.1	3878.2	3920.6	3755.4	3609.2	3572.0	3514.3
55°	3249.0	3265.7	3398.4	3619.9	3902.0	4037.9	3981.1	3844.7	3807.5	3727.0
57.5°	2959.0	2983.2	3176.4	3463.1	3842.4	4117.4	4179.3	4092.3	4056.5	3940.6
60°	2580.7	2619.3	2840.4	3199.7	3690.7	4117.0	4359.4	4335.7	4305.9	4150.9
62.5°	2152.5	2197.2	2409.9	2827.3	3425.4	4000.2	4472.1	4539.6	4524.2	4345.0
65°	1653.1	1683.8	1895.6	2345.6	3012.6	3749.3	4485.1	4678.7	4681.5	4492.6
67.5°	1100.7	1189.1	1372.9	1760.2	2459.7	3339.3	4370.6	4701.5	4728.5	4543.3
70°	537.1	653.4	833.5	1144.0	1760.2	2710.5	4071.4	4514.4	4574.5	4395.3
72.5°	222.9	260.6	358.8	564.5	1010.4	1829.0	3470.1	4007.1	4118.4	3894.5
75°	150.3	162.9	205.2	289.5	460.3	902.0	2502.5	2987.9	3167.1	2941.4
77.5°	115.9	123.8	149.4	202.5	273.7	341.1	1339.4	1800.7	1893.3	1752.7
80°	91.2	97.3	111.7	147.5	194.1	182.4	456.6	815.9	869.4	729.3
82.5°	79.1	81.4	80.0	100.1	128.9	106.6	149.9	301.1	332.3	241.1
85°	57.2	63.8	66.6	61.9	68.4	54.0	61.4	106.6	117.3	104.7
87.5°	23.3	34.4	42.4	40.0	25.1	15.4	19.1	31.2	35.8	39.1
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°
982.5	0°	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5
982.9	2.5°	983.4	986.7	989.0	991.8	993.6	996.4	1002.0	1005.3	1005.7	1008.1
990.4	5°	992.2	996.9	1002.0	1009.5	1017.8	1024.8	1035.5	1043.0	1045.8	1048.1
1008.5	7.5°	1011.3	1017.8	1027.1	1040.2	1052.3	1061.6	1074.6	1083.5	1092.3	1095.6
1037.4	10°	1039.7	1049.0	1062.5	1080.2	1093.2	1105.3	1118.8	1126.3	1135.1	1138.8
1071.8	12.5°	1075.1	1084.9	1102.5	1127.2	1139.3	1147.7	1152.3	1150.5	1152.3	1155.6
1113.2	15°	1115.6	1126.3	1146.3	1172.8	1181.2	1173.8	1163.5	1154.2	1152.8	1153.7
1163.5	17.5°	1163.5	1171.4	1194.7	1217.0	1211.0	1180.3	1157.9	1143.0	1135.6	1133.3
1227.7	20°	1230.5	1230.5	1249.6	1263.6	1223.1	1171.0	1136.1	1111.9	1096.5	1090.0
1315.2	22.5°	1312.0	1304.5	1316.6	1306.9	1220.8	1144.9	1096.5	1054.6	1031.3	1022.0
1437.6	25°	1415.3	1406.5	1403.2	1342.7	1204.0	1103.5	1024.8	974.1	953.6	948.5
1614.0	27.5°	1571.2	1548.9	1506.5	1362.2	1173.3	1038.3	941.0	894.0	882.4	882.9
1840.7	30°	1778.8	1734.1	1630.3	1365.5	1123.0	946.2	855.4	821.9	816.3	818.6
2031.0	32.5°	1971.0	1928.6	1756.9	1350.6	1045.8	855.9	778.6	756.3	747.9	750.7
2176.2	35°	2121.8	2110.1	1874.2	1329.7	950.8	771.2	709.7	690.7	674.4	670.6
2313.1	37.5°	2264.2	2259.5	1962.1	1300.3	856.8	711.1	654.4	629.2	605.5	592.5
2464.3	40°	2420.6	2415.9	2019.9	1255.2	773.5	659.0	604.6	571.5	542.2	518.5
2635.6	42.5°	2596.5	2569.0	2047.3	1190.5	702.8	614.8	564.1	519.4	480.8	458.9
2829.2	45°	2788.7	2726.8	2046.8	1108.1	643.2	574.3	520.8	457.5	421.7	401.2
3027.9	47.5°	2992.6	2877.6	2021.7	1016.9	585.5	529.6	453.8	405.4	381.6	369.1
3243.9	50°	3202.9	3018.6	1978.9	912.2	526.4	478.9	411.9	378.8	360.7	349.1
3458.0	52.5°	3400.7	3146.6	1927.2	793.5	466.3	429.6	393.3	367.7	348.6	335.6
3665.5	55°	3584.5	3256.9	1854.2	672.0	417.5	396.5	384.4	363.0	341.1	325.8
3876.4	57.5°	3747.9	3328.6	1728.0	558.0	382.6	373.7	375.1	355.1	330.0	316.9
4083.9	60°	3883.8	3381.2	1541.4	452.4	354.2	351.4	360.7	340.2	310.9	296.0
4259.4	62.5°	3965.2	3380.2	1312.4	370.5	330.0	330.9	341.6	321.6	291.8	277.8
4351.1	65°	3958.3	3297.4	1061.1	316.9	306.7	307.6	321.6	301.1	276.0	267.6
4305.0	67.5°	3818.2	3095.4	814.0	282.0	281.1	285.3	301.6	287.2	266.2	265.3
4030.4	70°	3438.9	2676.1	586.4	254.1	254.6	260.6	282.0	278.3	261.1	263.0
3388.6	72.5°	2757.5	2040.3	393.7	224.8	225.3	235.0	263.4	271.3	256.0	280.6
2404.3	75°	1836.5	1272.4	253.2	193.6	194.1	206.6	247.1	257.8	242.0	279.7
1251.0	77.5°	882.4	572.0	183.4	162.9	162.9	174.5	213.6	230.8	206.2	217.3
402.1	80°	304.8	215.0	144.3	131.2	128.5	136.4	180.1	200.1	177.8	163.8
131.2	82.5°	120.1	111.7	115.9	101.9	92.6	97.7	140.1	165.2	130.8	118.2
74.0	85°	68.9	72.6	81.9	67.5	53.5	60.0	102.9	118.7	98.7	87.0
24.2	87.5°	18.6	25.6	37.7	34.9	24.2	25.6	48.9	65.6	56.8	43.7
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>
982.5
1007.6
1047.6
1096.0
1140.7
1156.5
1157.0
1136.5
1088.6
1020.6
949.4
884.3
826.6
754.4
673.4
592.9
520.8
460.3
400.2
366.3
344.9
330.0
319.7
308.6
289.5
273.7
267.1
266.7
262.5
284.4
282.0
199.2
153.6
117.7
88.9
45.1
0.0

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