

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: P947847

Luminaire Tested: **GALN-SB3A-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11921 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

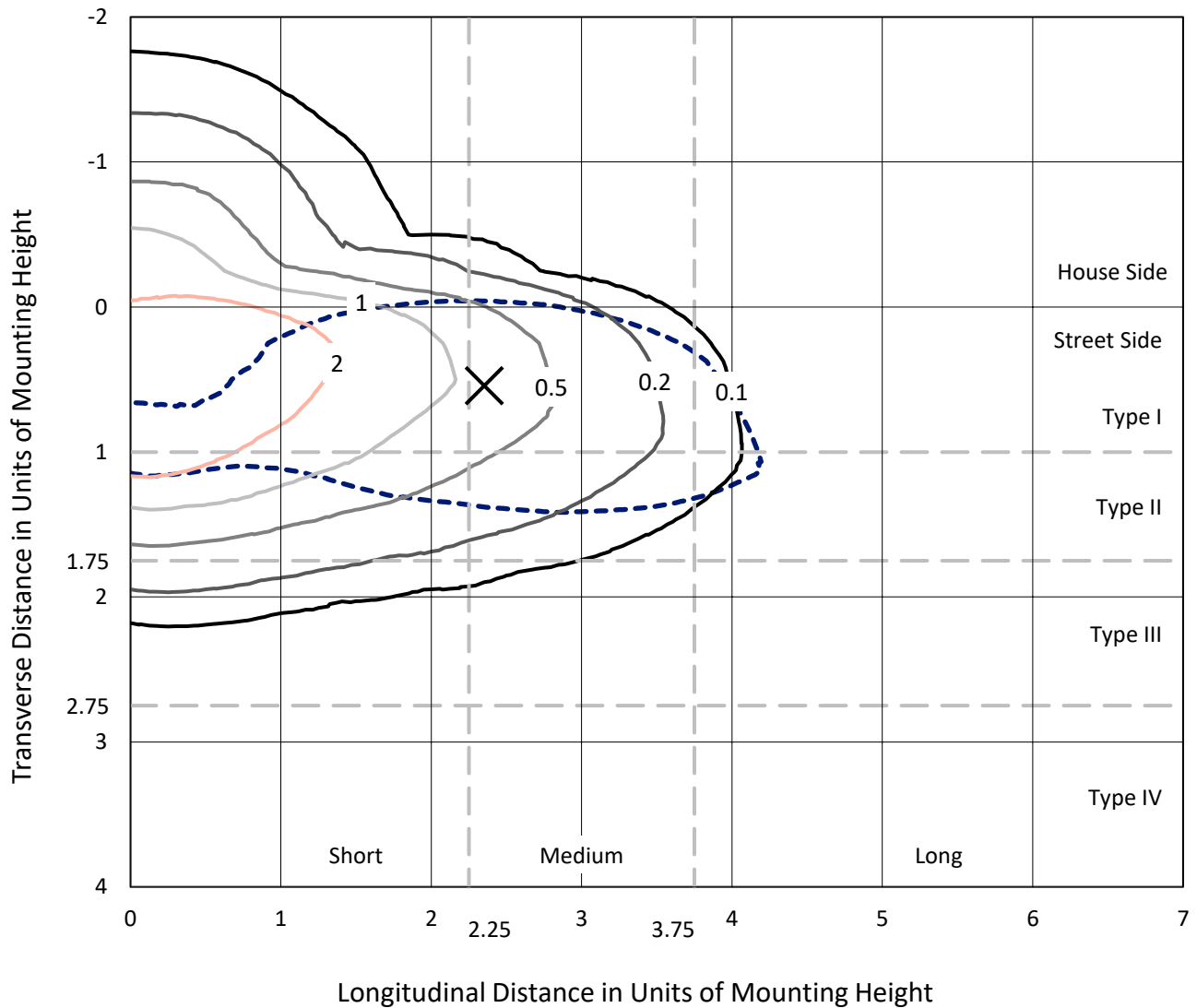
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

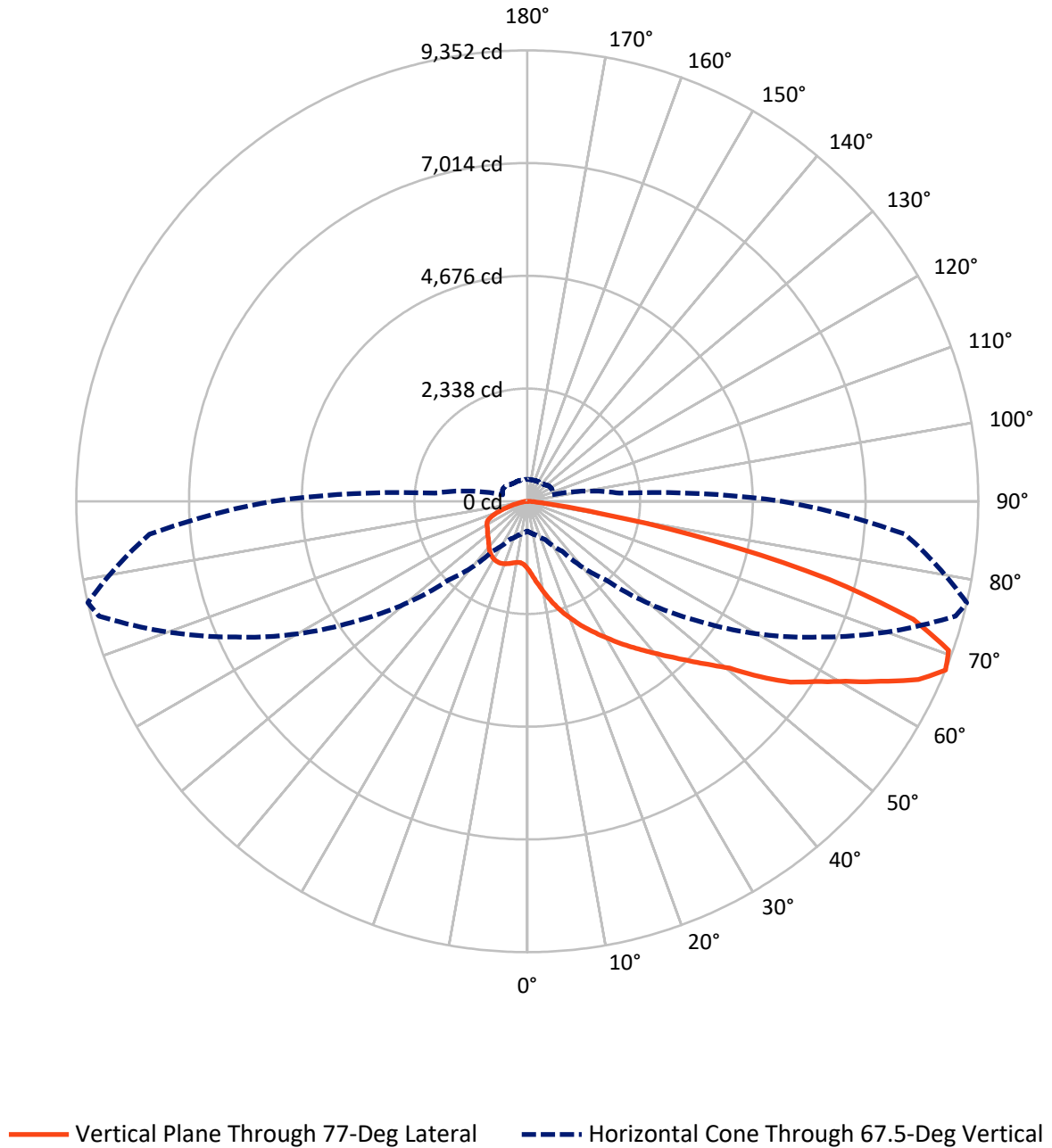
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2255.0	0.0	2255.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	9666.0	0.0	9666.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	11921.0	0.0	11921.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	1.3
10°-20°	538.6	4.5
20°-30°	1016.9	8.5
30°-40°	1638.3	13.7
40°-50°	2240.9	18.8
50°-60°	2527.7	21.2
60°-70°	2359.3	19.8
70°-80°	1293.3	10.8
80°-90°	156.0	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°	11921.0	100.0
0°-180°	11921.0	100.0



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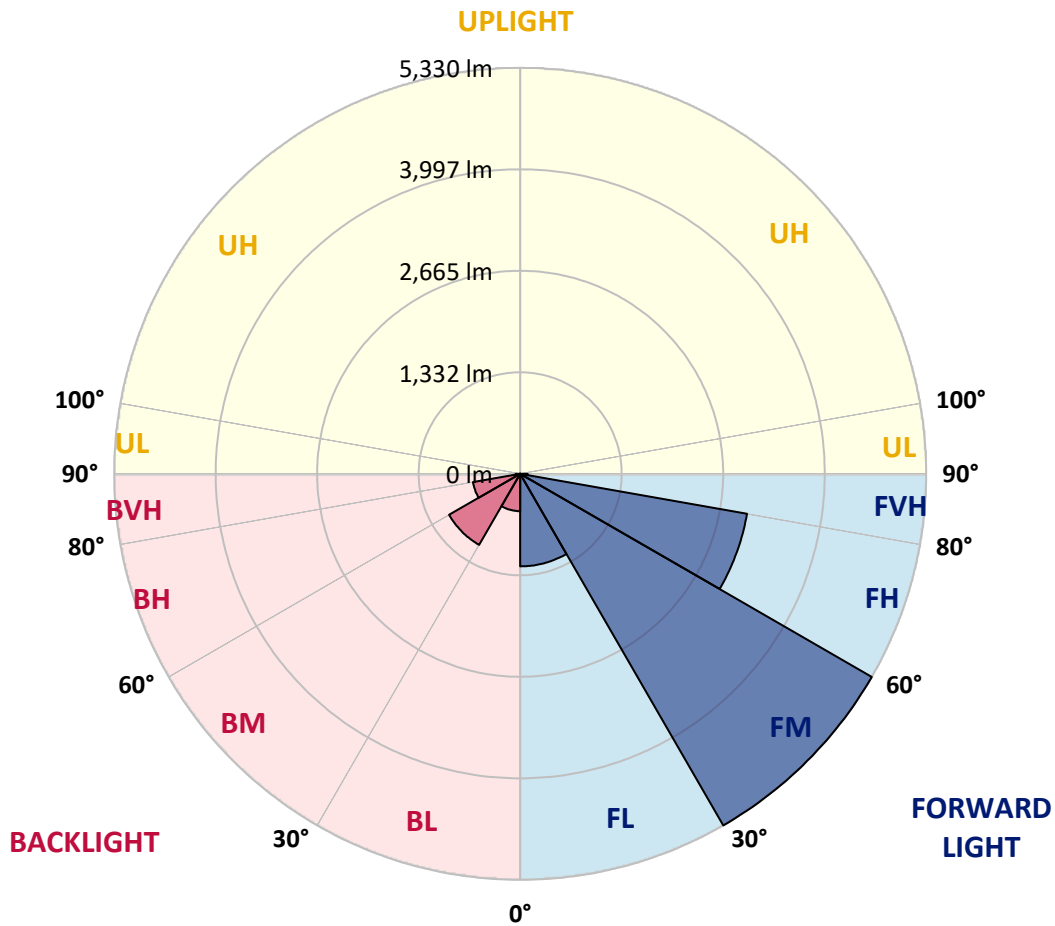
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1215.2	10.2			
FM (30°-60°)	5329.7	44.7			
FH (60°-80°)	3023.5	25.4			G2/5000
FVH (80°-90°)	97.6	0.8			G1/100
BL (0°-30°)	490.3	4.1	B1/500		
BM (30°-60°)	1077.1	9.0	B2/2500		
BH (60°-80°)	629.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	58.4	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7
2.5°	1751.3	1763.6	1748.2	1748.2	1696.5	1669.5	1617.8	1578.4	1507.6	1495.3
5°	2070.1	2085.4	2063.9	2054.7	1993.8	1937.8	1851.0	1765.5	1639.3	1626.4
7.5°	2316.8	2336.5	2317.4	2307.6	2253.4	2190.7	2089.1	1969.8	1791.9	1766.7
10°	2518.0	2521.1	2515.0	2518.7	2476.2	2424.5	2320.5	2181.4	1959.3	1924.8
12.5°	2631.9	2646.0	2658.3	2680.5	2673.1	2641.1	2547.6	2381.4	2136.5	2092.2
15°	2685.4	2710.0	2737.7	2788.8	2830.0	2838.0	2766.6	2596.2	2316.8	2263.3
17.5°	2704.5	2727.9	2771.6	2845.4	2934.0	2993.7	2961.7	2804.8	2495.3	2433.7
20°	2801.1	2807.9	2834.3	2904.5	3000.5	3099.5	3123.5	3005.4	2671.9	2602.3
22.5°	3007.9	2994.3	3001.7	3033.7	3102.6	3198.6	3253.4	3182.6	2853.4	2773.4
25°	3349.4	3310.0	3270.6	3233.7	3268.8	3322.9	3385.1	3359.8	3043.5	2942.0
27.5°	3780.7	3732.7	3646.0	3524.8	3482.3	3501.4	3529.1	3524.1	3219.5	3116.8
30°	4205.3	4149.3	4046.0	3870.6	3758.6	3708.1	3687.2	3673.1	3410.9	3301.4
32.5°	4544.4	4500.1	4398.6	4202.3	4039.8	3953.7	3884.1	3833.7	3610.9	3501.4
35°	4841.0	4799.8	4683.5	4469.3	4292.7	4201.0	4110.0	4002.3	3818.9	3708.1
37.5°	5111.8	5070.5	4911.2	4688.4	4510.6	4447.2	4365.9	4183.2	4027.5	3922.9
40°	5282.8	5273.6	5124.7	4872.4	4687.8	4656.4	4629.3	4393.0	4258.9	4161.7
42.5°	5326.5	5346.8	5228.7	5021.3	4845.3	4820.1	4883.5	4630.6	4518.6	4425.6
45°	5221.3	5279.8	5202.2	5061.3	4957.3	4943.8	5108.7	4890.2	4805.9	4721.0
47.5°	4954.8	5053.9	5021.9	5002.2	4987.5	5045.9	5306.8	5165.9	5131.5	5057.6
50°	4417.0	4604.7	4660.7	4785.0	4927.8	5125.3	5487.1	5466.8	5511.7	5437.3
52.5°	3487.2	3745.7	4070.6	4381.9	4744.4	5098.8	5685.3	5898.8	6088.3	6047.7
55°	2878.6	2994.9	3244.8	3815.8	4388.7	4987.5	5774.5	6247.7	6660.6	6624.3
57.5°	2411.0	2515.0	2668.8	3145.7	3850.9	4734.5	5829.9	6460.6	7052.6	7048.9
60°	1909.4	2019.6	2177.1	2515.0	3222.6	4297.6	5817.6	6703.1	7552.9	7583.6
62.5°	1343.3	1464.5	1639.3	1954.4	2580.8	3731.5	5566.5	6878.4	8141.8	8225.5
65°	883.0	963.0	1094.7	1366.7	1923.0	3003.6	5087.1	6901.2	8771.9	8913.4
67.5°	619.0	649.8	727.4	875.0	1267.6	2303.3	4323.5	6665.5	9192.2	9351.6
70°	483.1	498.4	537.8	596.9	796.3	1548.9	3313.1	6052.6	9102.3	9268.5
72.5°	417.2	432.0	446.7	454.1	534.1	956.3	2244.2	5060.7	8256.2	8368.8
75°	378.4	382.1	394.4	392.0	407.4	620.3	1295.3	3687.2	6514.2	6475.4
77.5°	318.1	323.1	343.4	340.3	361.8	424.0	672.6	2379.6	4223.2	3959.8
80°	269.5	272.0	294.1	290.4	314.4	307.1	343.4	1212.9	1791.3	1517.5
82.5°	93.5	115.7	224.6	231.4	240.0	185.8	198.1	494.7	547.1	419.1
85°	45.5	48.6	114.5	162.5	161.8	93.5	96.6	176.6	172.3	135.4
87.5°	7.4	9.2	13.5	63.4	50.5	24.6	33.2	34.5	35.7	30.8
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°
1398.7	0°	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7
1448.5	2.5°	1414.1	1383.3	1318.7	1259.0	1212.3	1167.3	1142.1	1120.6	1108.3	1105.8
1516.2	5°	1452.2	1388.9	1271.3	1172.3	1107.6	1059.6	1034.4	1018.4	1010.4	1005.5
1607.3	7.5°	1507.0	1414.1	1246.7	1134.1	1066.4	1032.0	1019.0	1016.6	1016.0	1016.6
1717.5	10°	1582.7	1455.3	1244.2	1124.9	1068.3	1049.2	1048.6	1049.2	1051.6	1052.3
1837.5	12.5°	1664.5	1497.8	1254.1	1132.9	1091.6	1081.2	1079.3	1078.7	1080.6	1081.8
1958.7	15°	1753.8	1553.8	1270.7	1150.1	1117.5	1106.4	1104.6	1100.9	1100.3	1099.6
2086.1	17.5°	1845.5	1609.2	1289.2	1168.6	1134.1	1118.7	1111.9	1103.3	1096.6	1094.7
2217.7	20°	1938.4	1663.9	1302.1	1177.8	1135.3	1113.8	1100.3	1085.5	1073.8	1067.0
2350.7	22.5°	2037.4	1721.2	1310.1	1175.3	1124.3	1094.7	1070.1	1052.9	1035.0	1023.3
2484.8	25°	2134.1	1771.0	1309.5	1162.4	1102.7	1065.2	1033.8	1011.6	987.0	974.7
2623.3	27.5°	2227.0	1815.9	1294.1	1139.6	1071.9	1030.1	992.6	966.1	942.1	930.4
2762.9	30°	2323.0	1853.5	1270.1	1106.4	1035.6	989.5	948.3	925.5	904.0	892.9
2910.6	32.5°	2418.3	1887.9	1236.2	1065.2	993.8	949.5	908.9	888.0	875.0	875.0
3069.4	35°	2519.3	1911.9	1191.3	1017.2	949.5	907.0	875.0	862.7	861.5	854.1
3237.4	37.5°	2625.7	1927.3	1136.6	968.0	905.8	865.8	856.0	841.2	828.9	812.9
3422.0	40°	2737.7	1942.7	1070.7	916.9	859.7	837.5	833.2	813.5	778.4	739.0
3631.2	42.5°	2873.7	1953.1	1002.4	865.8	811.0	803.7	809.8	776.0	720.0	690.4
3883.5	45°	3031.2	1970.4	939.6	815.3	761.2	761.2	787.0	742.7	696.6	678.1
4171.5	47.5°	3235.5	2010.4	881.2	760.0	715.0	727.4	736.6	702.7	676.9	654.1
4522.2	50°	3530.9	2106.4	820.9	704.0	680.0	704.6	691.7	672.0	641.8	623.4
5079.8	52.5°	3897.7	2163.0	767.3	653.5	649.8	674.4	656.0	637.5	614.7	590.1
5502.5	55°	4147.5	2173.4	722.4	616.6	629.5	627.0	620.3	603.7	591.4	558.7
5919.7	57.5°	4426.9	2194.4	685.5	594.4	616.6	589.5	587.0	572.9	556.9	534.7
6428.6	60°	4761.0	2227.0	653.5	585.8	605.5	564.9	552.6	547.1	531.1	520.0
7040.9	62.5°	5125.3	2256.5	620.9	587.0	592.6	540.9	522.4	520.6	510.7	507.1
7615.6	65°	5373.9	2175.9	580.3	585.8	572.3	516.3	492.9	492.3	484.3	483.1
7864.9	67.5°	5287.1	1920.5	525.5	568.6	551.4	491.7	465.8	463.4	452.9	453.5
7604.6	70°	4852.7	1556.2	449.8	526.1	525.5	469.5	437.5	429.5	415.4	417.8
6612.0	72.5°	4038.0	1153.2	348.3	455.4	484.3	449.2	404.9	392.0	374.1	376.6
4881.0	75°	2916.2	784.0	253.5	346.4	421.5	425.2	372.9	350.8	329.2	332.9
2716.8	77.5°	1492.2	444.3	186.5	238.8	331.1	386.4	344.0	314.4	309.5	344.0
783.3	80°	486.7	222.8	129.2	167.4	217.2	316.3	301.5	267.7	266.4	274.4
164.3	82.5°	145.2	94.1	83.1	110.1	120.0	242.5	260.3	202.5	174.1	183.4
54.8	85°	49.8	45.5	47.4	54.8	57.2	142.1	182.1	134.1	126.8	139.7
12.3	87.5°	11.7	16.0	13.5	12.3	12.3	34.5	70.8	56.0	77.5	51.7
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>
1398.7
1105.8
1004.9
1018.4
1052.9
1082.4
1099.0
1096.6
1069.5
1024.0
974.7
929.8
892.3
875.7
852.3
810.4
733.5
691.0
681.2
653.5
621.5
585.2
559.4
527.4
523.1
507.1
482.4
453.5
420.3
376.0
334.1
339.1
235.7
189.5
137.8
49.8
0.0

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