

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: P939635

Luminaire Tested: **GALN-SB2B-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939635
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-SB2B-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9703 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

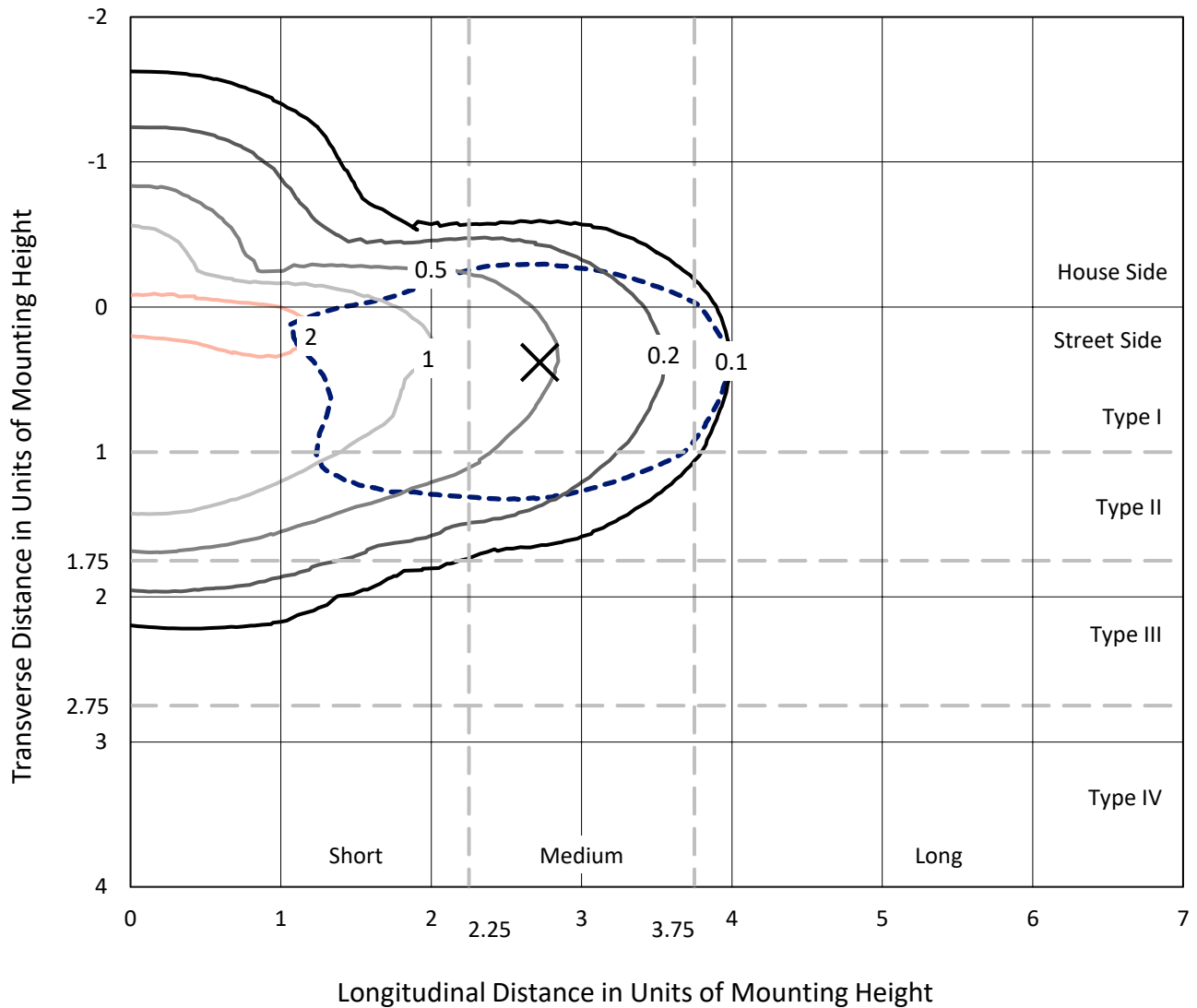
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

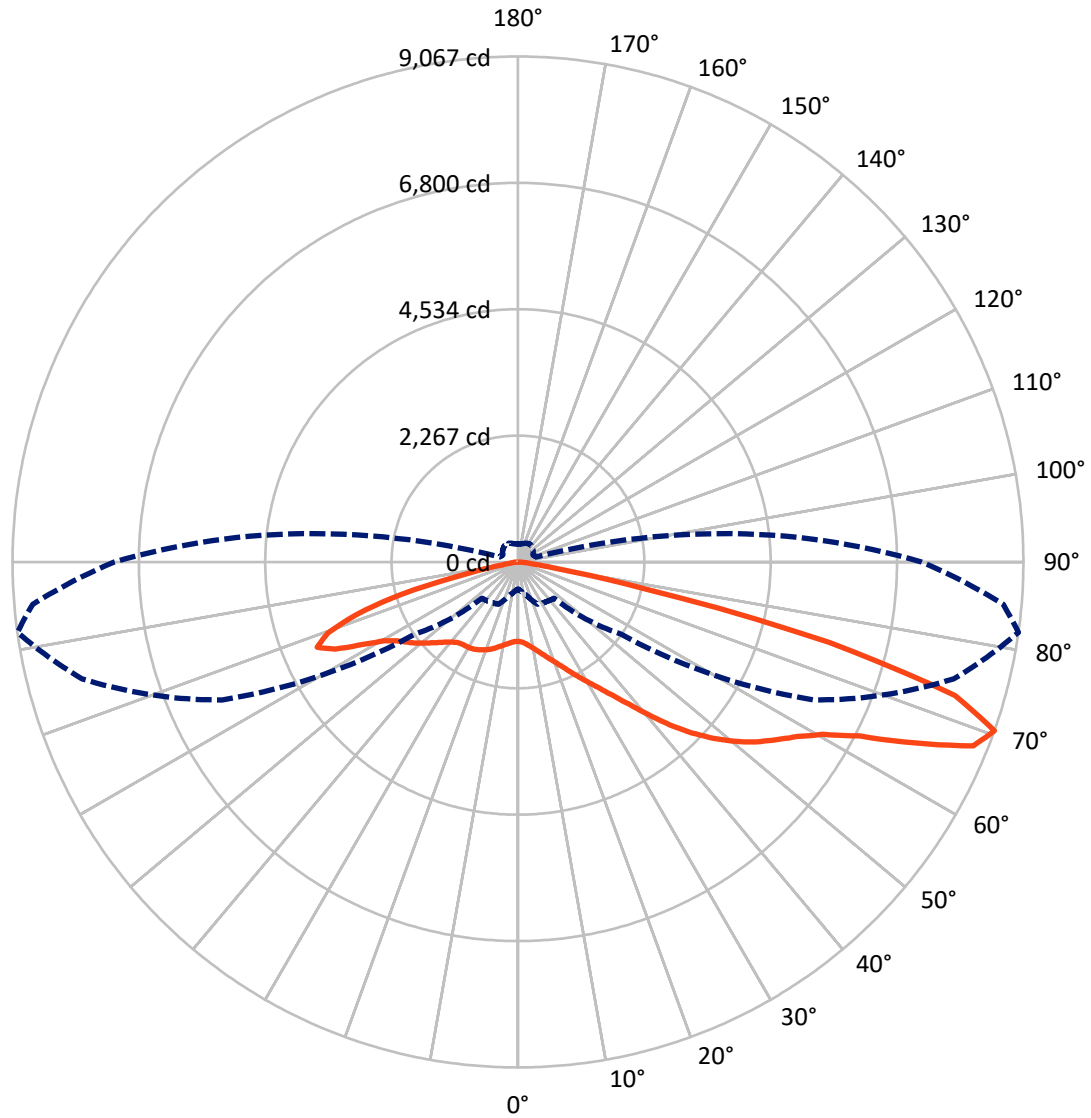
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	2392.0	0.0	2392.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	7311.0	0.0	7311.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	9703.0	0.0	9703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	1.4
10°-20°	385.9	4.0
20°-30°	645.6	6.7
30°-40°	1008.6	10.4
40°-50°	1606.2	16.6
50°-60°	2235.3	23.0
60°-70°	2338.2	24.1
70°-80°	1222.1	12.6
80°-90°	126.9	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°	9703.0	100.0
0°-180°	9703.0	100.0

Coefficient of Utilization



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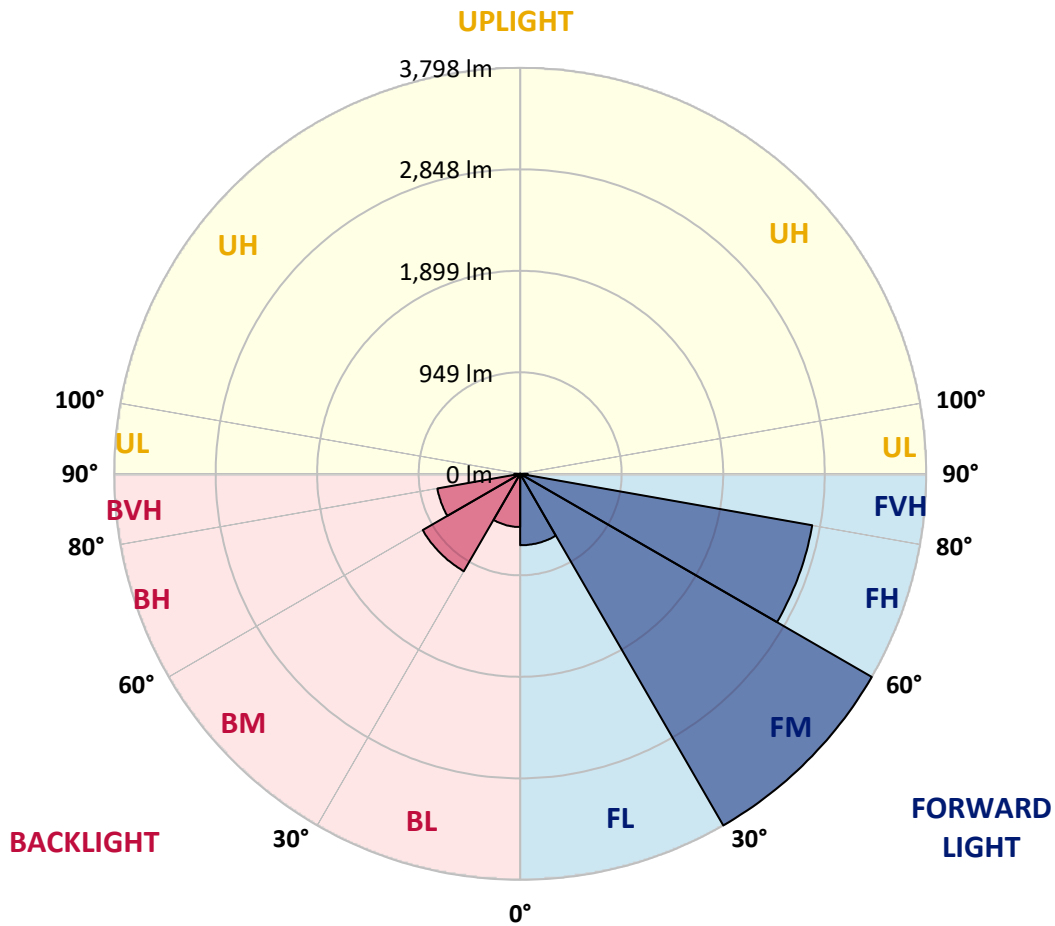
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	668.2	6.9			
FM (30°-60°)	3797.7	39.1			
FH (60°-80°)	2774.1	28.6			G2/5000
FVH (80°-90°)	71.0	0.7			G1/100
BL (0°-30°)	497.6	5.1	B1/500		
BM (30°-60°)	1052.4	10.8	B2/2500		
BH (60°-80°)	786.1	8.1	B2/1000		G2/1000
BVH (80°-90°)	55.9	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°	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6
2.5°	1456.6	1464.8	1462.2	1459.7	1459.7	1456.0	1455.5	1450.4	1446.3	1439.6
5°	1475.1	1483.9	1482.8	1484.9	1491.6	1493.1	1494.7	1491.6	1483.3	1475.1
7.5°	1458.6	1468.4	1471.5	1483.9	1504.4	1523.0	1536.9	1542.5	1534.8	1523.0
10°	1403.0	1413.8	1424.6	1454.0	1490.5	1534.3	1571.4	1593.5	1592.0	1580.6
12.5°	1290.3	1301.6	1324.8	1381.9	1448.8	1526.1	1595.1	1641.4	1657.4	1649.1
15°	1200.2	1209.9	1227.4	1286.1	1373.2	1490.5	1603.8	1693.9	1734.6	1730.0
17.5°	1197.6	1201.7	1212.5	1240.3	1307.3	1434.9	1594.5	1745.4	1823.1	1822.6
20°	1242.9	1244.4	1250.6	1256.3	1294.4	1392.7	1570.9	1788.1	1922.5	1922.5
22.5°	1305.7	1304.7	1310.9	1305.7	1324.2	1389.1	1555.9	1825.7	2033.2	2041.5
25°	1399.9	1394.8	1393.2	1381.4	1385.0	1422.6	1572.4	1868.5	2164.5	2181.5
27.5°	1525.6	1517.3	1511.7	1484.4	1475.1	1491.6	1622.9	1919.9	2310.7	2340.1
30°	1689.3	1674.4	1666.1	1618.7	1585.3	1587.9	1699.1	1988.4	2463.6	2511.0
32.5°	1912.7	1889.6	1867.4	1789.7	1728.4	1708.3	1797.4	2083.2	2629.4	2705.1
35°	2163.0	2144.4	2120.7	2000.8	1906.6	1860.2	1930.2	2215.5	2823.5	2943.5
37.5°	2403.9	2388.0	2399.3	2237.6	2116.1	2048.7	2104.3	2393.1	3063.0	3240.1
40°	2653.1	2640.8	2642.3	2487.8	2346.3	2270.6	2315.4	2616.0	3337.4	3592.8
42.5°	2923.9	2914.7	2883.8	2746.8	2587.7	2517.2	2558.4	2873.5	3631.9	3994.3
45°	3227.2	3221.5	3192.7	3035.7	2853.4	2774.1	2829.7	3157.7	3927.9	4372.3
47.5°	3489.3	3493.9	3490.3	3358.0	3169.0	3052.7	3119.1	3454.3	4203.4	4727.5
50°	3615.4	3639.6	3675.1	3633.9	3516.6	3398.1	3411.0	3740.5	4466.0	5060.6
52.5°	3549.5	3595.3	3692.1	3758.0	3803.3	3778.6	3744.1	4024.7	4713.1	5361.3
55°	3303.9	3368.3	3528.9	3688.0	3919.2	4098.9	4144.2	4339.8	4954.1	5626.0
57.5°	2856.5	2961.0	3105.2	3427.0	3816.2	4253.8	4610.6	4776.9	5209.4	5908.6
60°	2089.3	2229.4	2408.6	2887.4	3455.8	4170.9	5007.6	5448.3	5572.4	6274.7
62.5°	1337.1	1423.6	1588.4	2039.4	2692.8	3746.2	5129.1	6287.6	6187.7	6875.0
65°	915.4	971.0	1121.9	1375.2	1740.8	2788.5	4803.7	6916.7	7164.9	7826.5
67.5°	665.2	707.4	836.1	1058.1	1134.3	1650.2	3727.6	6887.9	8114.8	8806.8
70°	485.0	514.9	623.0	836.1	872.7	918.0	2258.2	5855.1	8094.2	9067.3
72.5°	359.4	380.0	452.6	648.7	706.4	619.9	1117.8	4255.4	6955.4	8201.3
75°	260.0	275.5	329.0	496.3	565.3	472.1	557.6	2486.8	4851.6	5769.1
77.5°	198.7	210.6	245.6	363.5	452.6	354.2	346.0	1144.0	2300.4	2311.8
80°	159.6	167.3	186.4	255.9	347.0	265.2	225.5	461.8	727.0	615.3
82.5°	117.4	130.3	157.5	179.7	248.2	182.8	137.5	233.2	276.5	237.9
85°	66.9	75.7	95.3	128.7	158.6	111.7	78.8	103.5	128.7	105.5
87.5°	23.7	30.9	33.5	50.5	69.0	46.3	30.4	29.9	42.2	31.4
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°
1422.6	0°	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6
1438.0	2.5°	1432.9	1430.3	1420.0	1406.1	1391.7	1377.8	1373.2	1363.4	1356.7	1353.1
1471.5	5°	1461.7	1453.5	1429.3	1398.4	1365.9	1330.9	1306.2	1283.6	1267.1	1251.6
1517.3	7.5°	1502.9	1488.5	1446.8	1392.7	1335.1	1276.9	1233.6	1200.7	1178.5	1164.1
1570.9	10°	1550.8	1528.6	1464.8	1384.0	1294.9	1211.5	1160.5	1132.2	1118.3	1110.6
1632.1	12.5°	1605.9	1574.5	1483.3	1363.9	1233.6	1138.4	1103.4	1095.1	1095.6	1096.2
1709.4	15°	1673.8	1630.1	1498.3	1320.1	1153.8	1082.3	1076.1	1089.5	1103.4	1110.1
1796.9	17.5°	1750.6	1688.8	1500.8	1248.0	1075.6	1046.2	1065.8	1094.6	1115.7	1125.0
1894.7	20°	1832.9	1748.5	1482.3	1146.1	1011.2	1016.9	1051.9	1088.9	1112.1	1124.0
2006.4	22.5°	1927.2	1812.3	1438.0	1039.0	958.7	984.9	1026.1	1062.2	1086.4	1098.2
2137.7	25°	2034.8	1883.9	1368.5	948.9	913.4	948.9	990.1	1020.0	1039.5	1050.3
2284.5	27.5°	2154.2	1958.6	1275.8	877.3	873.7	911.8	945.8	969.0	979.3	987.5
2440.5	30°	2274.2	2026.5	1163.6	823.3	839.2	875.3	899.5	909.8	912.9	914.4
2614.5	32.5°	2403.9	2085.2	1045.7	778.5	806.3	839.8	854.2	858.8	844.4	834.6
2825.6	35°	2561.0	2148.0	930.4	743.0	773.8	802.7	807.3	803.2	786.2	766.1
3090.2	37.5°	2755.1	2226.3	838.2	717.7	743.5	762.5	756.9	755.8	757.4	733.7
3408.4	40°	2992.9	2328.2	770.8	698.2	718.8	722.9	706.9	715.7	723.4	687.3
3757.5	42.5°	3257.1	2451.3	728.0	684.8	698.2	688.4	663.7	673.4	672.4	625.1
4108.1	45°	3526.3	2585.2	713.1	675.0	679.1	659.5	632.3	634.8	613.2	570.5
4444.3	47.5°	3794.1	2728.8	722.4	666.8	655.4	633.3	612.2	600.9	568.9	537.0
4766.7	50°	4056.6	2879.7	756.3	650.3	623.0	610.1	594.7	574.6	540.6	513.3
5071.5	52.5°	4300.2	3031.5	794.4	623.0	582.3	590.0	580.3	557.1	523.6	495.8
5359.8	55°	4530.8	3183.4	809.4	585.4	544.2	572.5	566.9	524.1	484.0	461.3
5661.5	57.5°	4782.1	3366.2	792.9	537.5	513.3	552.5	530.8	483.5	460.3	443.3
6054.3	60°	5130.1	3653.0	757.4	478.3	484.0	522.6	485.5	466.0	440.7	421.7
6643.3	62.5°	5708.3	4187.9	700.2	419.6	449.5	478.3	463.9	444.3	418.6	400.1
7650.4	65°	6563.0	4931.4	592.6	373.8	410.9	435.1	440.7	421.2	394.4	374.8
8532.9	67.5°	7283.8	5397.9	448.5	335.7	371.2	400.1	416.0	397.0	368.6	349.6
8739.4	70°	7244.2	5059.1	342.4	298.1	336.2	365.6	386.2	371.2	340.8	322.8
7938.2	72.5°	6434.3	4232.2	277.0	260.0	300.7	329.5	354.2	342.9	312.0	294.5
5815.4	75°	4727.0	3004.3	221.4	221.4	256.4	291.9	319.2	312.0	283.7	271.3
2441.5	77.5°	1992.5	1260.4	173.5	183.8	213.2	250.7	284.7	287.3	262.6	278.0
645.6	80°	529.8	347.5	132.3	144.7	167.3	207.0	247.7	246.6	219.8	205.4
239.9	82.5°	201.8	137.0	94.2	101.9	121.0	158.6	196.2	202.3	175.6	151.9
94.2	85°	77.7	58.7	58.2	61.3	70.5	105.0	148.3	153.4	132.3	112.2
26.3	87.5°	20.1	17.5	21.6	20.6	32.4	56.1	85.0	88.0	80.8	46.9
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>
1422.6
1357.2
1257.8
1167.2
1112.6
1097.2
1109.5
1127.0
1127.0
1101.3
1053.4
990.6
918.0
837.7
767.2
735.2
688.4
624.5
572.0
537.0
511.3
496.3
459.3
441.8
420.6
400.1
375.9
350.1
324.4
294.5
267.7
252.3
191.0
151.9
115.8
66.9
0.0

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