

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: P939335

Luminaire Tested: **GALN-SB1D-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939335
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-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9648 lumens
Efficiency: N/A
Efficacy: 121.2 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

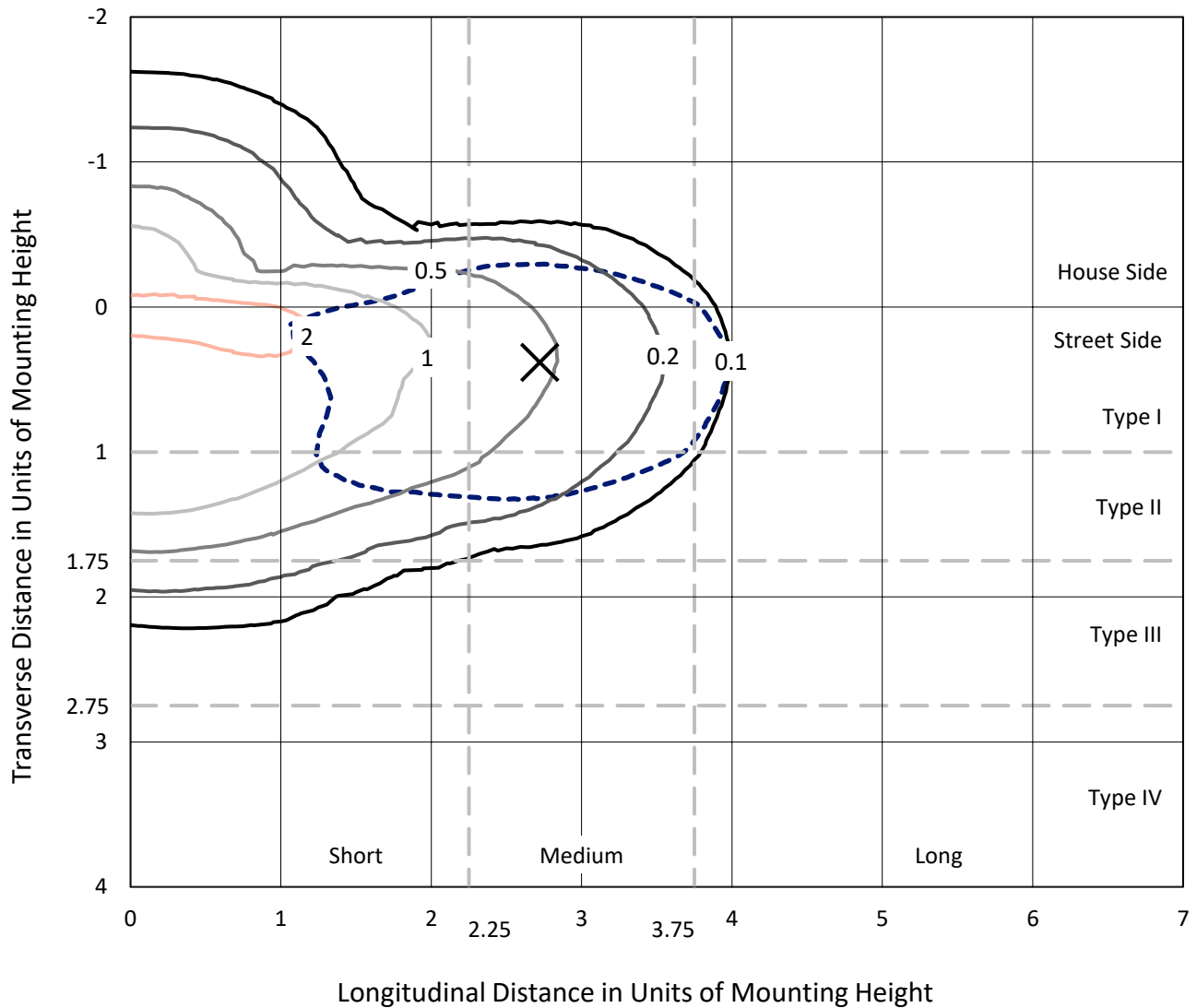
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

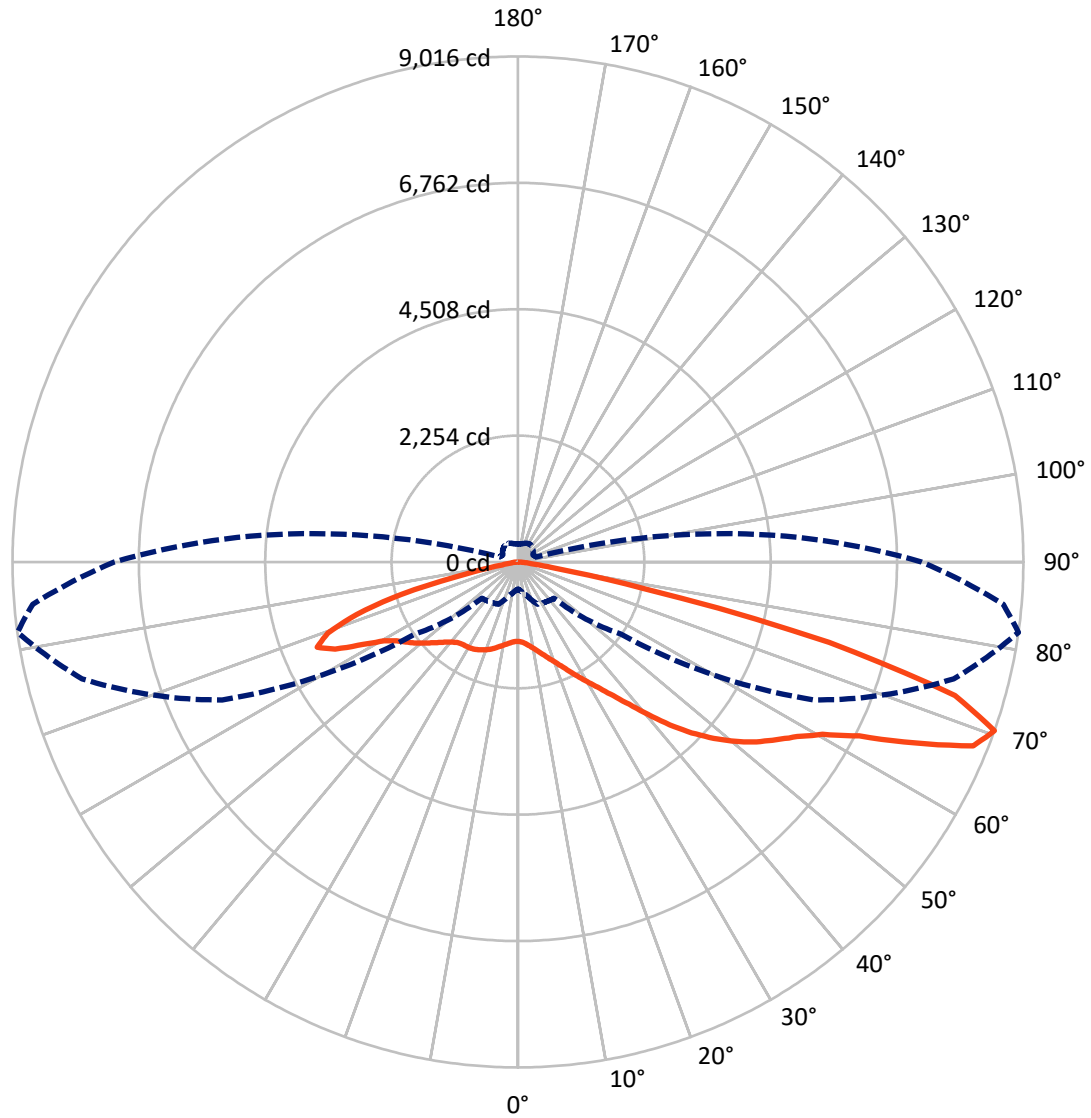
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	2378.5	0.0	2378.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	7269.5	0.0	7269.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	9648.0	0.0	9648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	1.4
10°-20°	383.7	4.0
20°-30°	641.9	6.7
30°-40°	1002.8	10.4
40°-50°	1597.1	16.6
50°-60°	2222.6	23.0
60°-70°	2324.9	24.1
70°-80°	1215.1	12.6
80°-90°	126.2	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°	9648.0	100.0
0°-180°	9648.0	100.0

Coefficient of Utilization



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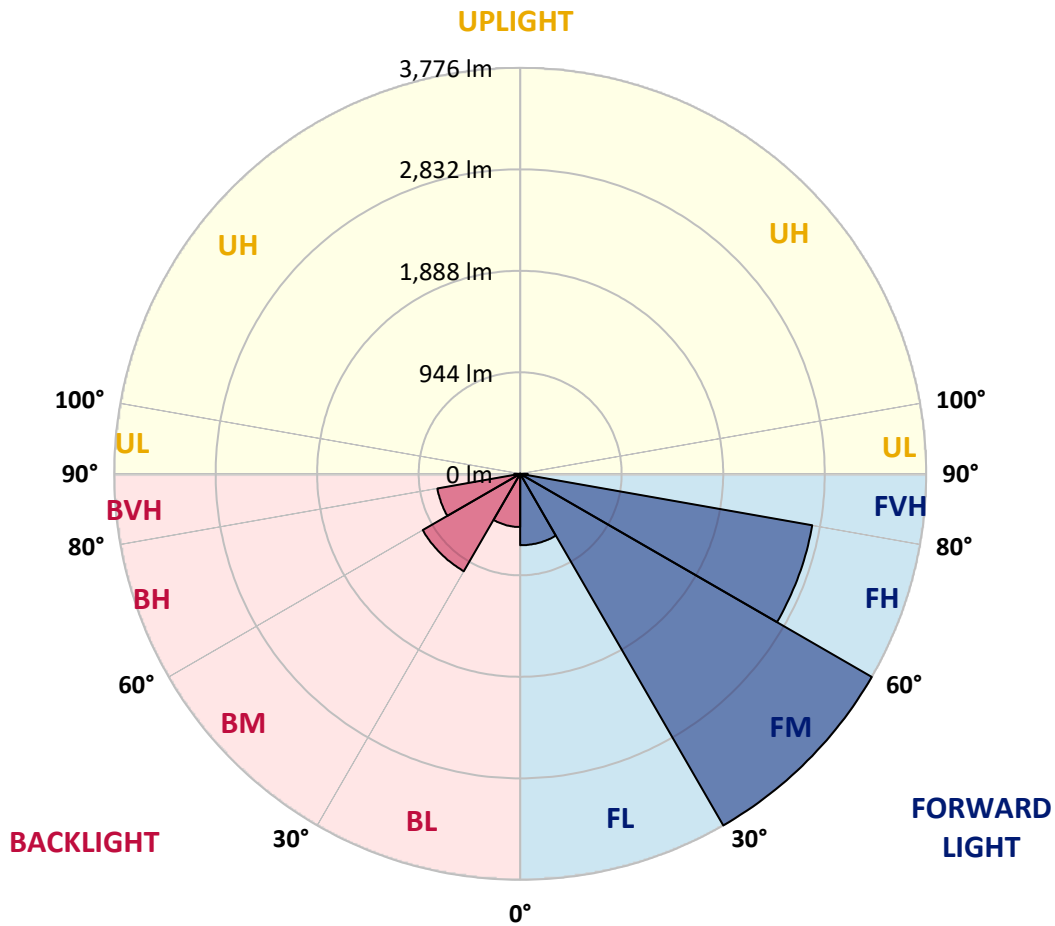
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.4	6.9			
FM (30°-60°)	3776.1	39.1			
FH (60°-80°)	2758.4	28.6			G2/5000
FVH (80°-90°)	70.6	0.7			G1/100
BL (0°-30°)	494.8	5.1	B1/500		
BM (30°-60°)	1046.4	10.8	B2/2500		
BH (60°-80°)	781.7	8.1	B2/1000		G2/1000
BVH (80°-90°)	55.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5
2.5°	1448.3	1456.5	1453.9	1451.4	1451.4	1447.8	1447.3	1442.2	1438.1	1431.4
5°	1466.7	1475.4	1474.4	1476.5	1483.1	1484.7	1486.2	1483.1	1474.9	1466.7
7.5°	1450.4	1460.1	1463.2	1475.4	1495.9	1514.3	1528.2	1533.8	1526.1	1514.3
10°	1395.1	1405.8	1416.6	1445.7	1482.1	1525.6	1562.5	1584.5	1582.9	1571.7
12.5°	1282.9	1294.2	1317.2	1374.1	1440.6	1517.4	1586.0	1632.1	1648.0	1639.8
15°	1193.4	1203.1	1220.5	1278.9	1365.4	1482.1	1594.7	1684.3	1724.8	1720.2
17.5°	1190.8	1194.9	1205.6	1233.3	1299.8	1426.8	1585.5	1735.5	1812.8	1812.3
20°	1235.8	1237.4	1243.5	1249.2	1287.0	1384.8	1562.0	1778.0	1911.6	1911.6
22.5°	1298.3	1297.3	1303.4	1298.3	1316.7	1381.2	1547.1	1815.4	2021.7	2029.9
25°	1392.0	1386.9	1385.3	1373.6	1377.1	1414.5	1563.5	1857.9	2152.2	2169.1
27.5°	1516.9	1508.7	1503.1	1476.0	1466.7	1483.1	1613.7	1909.1	2297.6	2326.8
30°	1679.7	1664.9	1656.7	1609.6	1576.3	1578.9	1689.4	1977.2	2449.7	2496.8
32.5°	1901.9	1878.9	1856.8	1779.5	1718.6	1698.6	1787.2	2071.3	2614.5	2689.8
35°	2150.7	2132.3	2108.7	1989.4	1895.8	1849.7	1919.3	2202.9	2807.5	2926.8
37.5°	2390.3	2374.4	2385.7	2224.9	2104.1	2037.0	2092.3	2379.5	3045.6	3221.7
40°	2638.1	2625.8	2627.3	2473.7	2333.0	2257.7	2302.2	2601.2	3318.5	3572.4
42.5°	2907.4	2898.1	2867.4	2731.3	2573.1	2502.9	2543.9	2857.2	3611.3	3971.7
45°	3208.9	3203.3	3174.6	3018.5	2837.2	2758.4	2813.7	3139.8	3905.7	4347.5
47.5°	3469.5	3474.1	3470.5	3338.9	3151.1	3035.4	3101.4	3434.7	4179.6	4700.7
50°	3594.9	3619.0	3654.3	3613.3	3496.6	3378.9	3391.7	3719.3	4440.7	5032.0
52.5°	3529.4	3574.9	3671.2	3736.7	3781.8	3757.2	3722.9	4001.9	4686.4	5330.9
55°	3285.2	3349.2	3508.9	3667.1	3897.0	4075.6	4120.7	4315.2	4926.0	5594.1
57.5°	2840.3	2944.2	3087.6	3407.5	3794.6	4229.7	4584.5	4749.9	5179.9	5875.1
60°	2077.5	2216.7	2394.9	2871.0	3436.2	4147.3	4979.2	5417.5	5540.8	6239.1
62.5°	1329.5	1415.5	1579.4	2027.8	2677.5	3724.9	5100.0	6251.9	6152.6	6836.1
65°	910.2	965.5	1115.5	1367.4	1730.9	2772.7	4776.5	6877.5	7124.3	7782.1
67.5°	661.4	703.4	831.4	1052.1	1127.8	1640.8	3706.5	6848.9	8068.8	8756.9
70°	482.3	511.9	619.5	831.4	867.8	912.8	2245.4	5821.9	8048.4	9015.9
72.5°	357.3	377.8	450.0	645.1	702.4	616.4	1111.4	4231.3	6915.9	8154.8
75°	258.5	273.9	327.1	493.5	562.1	469.5	554.4	2472.7	4824.1	5736.4
77.5°	197.6	209.4	244.2	361.4	450.0	352.2	344.0	1137.6	2287.4	2298.7
80°	158.7	166.4	185.3	254.4	345.1	263.7	224.2	459.2	722.9	611.8
82.5°	116.7	129.5	156.7	178.7	246.8	181.7	136.7	231.9	274.9	236.5
85°	66.6	75.3	94.7	128.0	157.7	111.1	78.3	102.9	128.0	104.9
87.5°	23.5	30.7	33.3	50.2	68.6	46.1	30.2	29.7	42.0	31.2
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°
1414.5	0°	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5	1414.5
1429.9	2.5°	1424.8	1422.2	1412.0	1398.1	1383.8	1370.0	1365.4	1355.6	1349.0	1345.4
1463.2	5°	1453.4	1445.2	1421.2	1390.5	1358.2	1323.4	1298.8	1276.3	1259.9	1244.6
1508.7	7.5°	1494.4	1480.0	1438.6	1384.8	1327.5	1269.6	1226.6	1193.9	1171.9	1157.5
1562.0	10°	1542.0	1520.0	1456.5	1376.1	1287.6	1204.6	1153.9	1125.8	1112.0	1104.3
1622.9	12.5°	1596.8	1565.5	1474.9	1356.2	1226.6	1131.9	1097.1	1088.9	1089.4	1089.9
1699.7	15°	1664.3	1620.8	1489.8	1312.6	1147.3	1076.1	1070.0	1083.3	1097.1	1103.8
1786.7	17.5°	1740.6	1679.2	1492.3	1241.0	1069.5	1040.3	1059.7	1088.4	1109.4	1118.6
1884.0	20°	1822.5	1738.6	1473.9	1139.6	1005.5	1011.1	1045.9	1082.8	1105.8	1117.6
1995.1	22.5°	1916.2	1802.1	1429.9	1033.1	953.3	979.4	1020.3	1056.2	1080.2	1092.0
2125.6	25°	2023.2	1873.2	1360.8	943.5	908.2	943.5	984.5	1014.2	1033.6	1044.4
2271.5	27.5°	2142.0	1947.5	1268.6	872.4	868.8	906.7	940.5	963.5	973.7	981.9
2426.6	30°	2261.3	2015.0	1157.0	818.6	834.5	870.3	894.4	904.6	907.7	909.2
2599.7	32.5°	2390.3	2073.4	1039.8	774.1	801.7	835.0	849.3	853.9	839.6	829.9
2809.6	35°	2546.4	2135.9	925.1	738.7	769.5	798.1	802.7	798.6	781.7	761.8
3072.7	37.5°	2739.4	2213.7	833.5	713.7	739.3	758.2	752.6	751.5	753.1	729.5
3389.1	40°	2976.0	2315.0	766.4	694.2	714.7	718.8	702.9	711.6	719.3	683.5
3736.2	42.5°	3238.6	2437.4	723.9	680.9	694.2	684.5	659.9	669.6	668.6	621.5
4084.8	45°	3506.3	2570.5	709.1	671.2	675.3	655.8	628.7	631.2	609.7	567.2
4419.2	47.5°	3772.6	2713.3	718.3	663.0	651.7	629.7	608.7	597.4	565.7	534.0
4739.6	50°	4033.7	2863.3	752.1	646.6	619.5	606.7	591.3	571.3	537.5	510.4
5042.7	52.5°	4275.8	3014.4	789.9	619.5	579.0	586.7	577.0	553.9	520.7	493.0
5329.4	55°	4505.2	3165.4	804.8	582.1	541.1	569.3	563.7	521.2	481.2	458.7
5629.4	57.5°	4755.0	3347.1	788.4	534.5	510.4	549.3	527.8	480.7	457.7	440.8
6020.0	60°	5101.1	3632.3	753.1	475.6	481.2	519.6	482.8	463.3	438.2	419.3
6605.7	62.5°	5676.0	4164.2	696.3	417.2	446.9	475.6	461.3	441.8	416.2	397.8
7607.1	65°	6525.8	4903.5	589.3	371.7	408.5	432.6	438.2	418.8	392.2	372.7
8484.5	67.5°	7242.6	5367.3	445.9	333.8	369.1	397.8	413.7	394.7	366.6	347.6
8689.8	70°	7203.1	5030.4	340.4	296.4	334.3	363.5	384.0	369.1	338.9	321.0
7893.2	72.5°	6397.8	4208.2	275.4	258.5	299.0	327.6	352.2	341.0	310.2	292.8
5782.5	75°	4700.2	2987.2	220.1	220.1	255.0	290.3	317.4	310.2	282.1	269.8
2427.7	77.5°	1981.2	1253.3	172.5	182.8	211.9	249.3	283.1	285.7	261.1	276.5
642.0	80°	526.8	345.6	131.6	143.9	166.4	205.8	246.2	245.2	218.6	204.3
238.6	82.5°	200.7	136.2	93.7	101.4	120.3	157.7	195.1	201.2	174.6	151.0
93.7	85°	77.3	58.4	57.9	60.9	70.1	104.4	147.4	152.6	131.6	111.6
26.1	87.5°	20.0	17.4	21.5	20.5	32.3	55.8	84.5	87.5	80.4	46.6
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>
1414.5
1349.5
1250.7
1160.6
1106.3
1091.0
1103.3
1120.7
1120.7
1095.1
1047.4
985.0
912.8
832.9
762.8
731.1
684.5
621.0
568.8
534.0
508.4
493.5
456.7
439.3
418.3
397.8
373.7
348.1
322.5
292.8
266.2
250.9
189.9
151.0
115.2
66.6
0.0

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