

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: P939674

Luminaire Tested: **GALN-SB2B-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7866 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

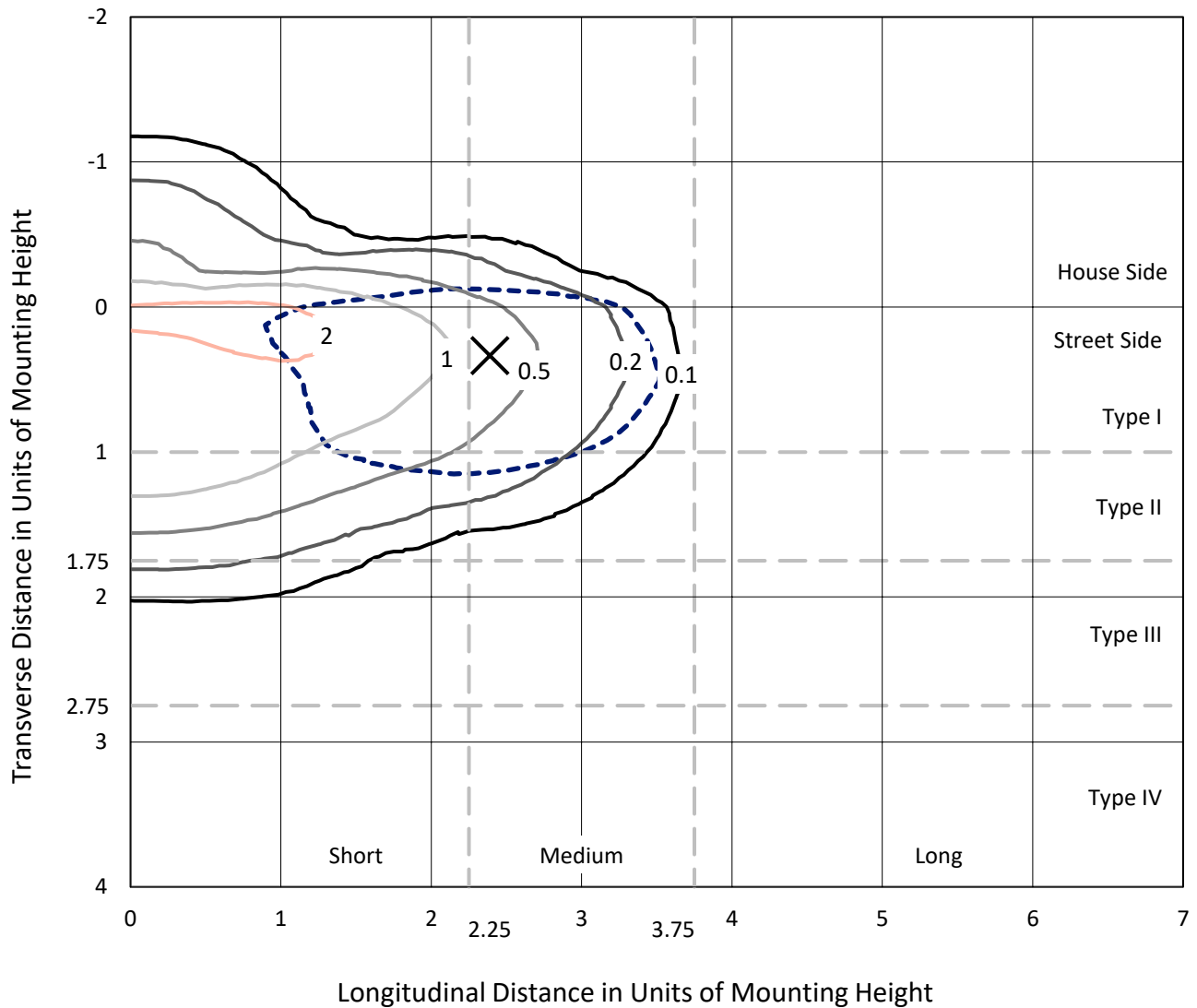
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

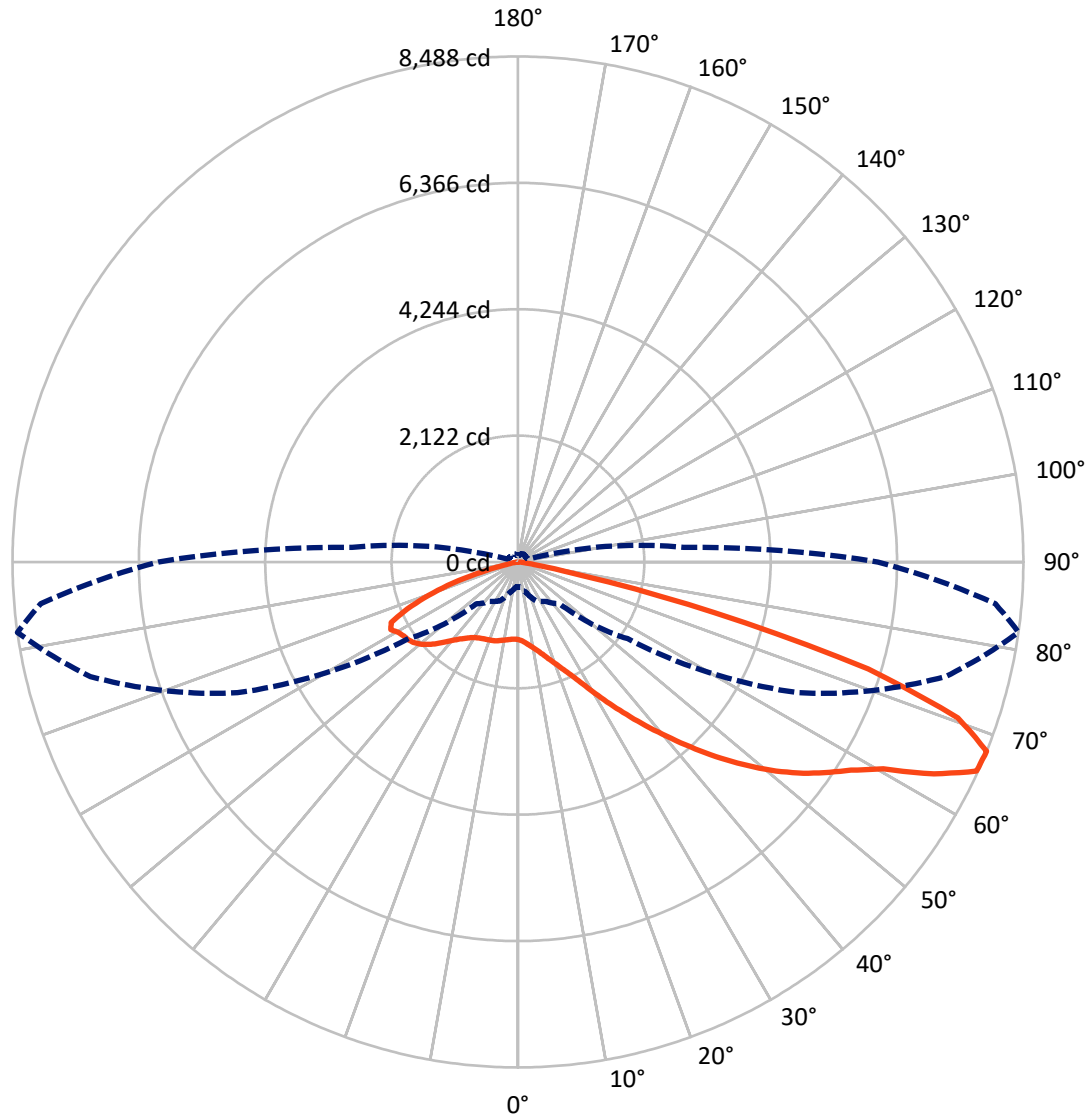
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1424.9	0.0	1424.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6441.1	0.0	6441.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	7866.0	0.0	7866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	1.5
10°-20°	301.7	3.8
20°-30°	483.2	6.1
30°-40°	854.5	10.9
40°-50°	1497.1	19.0
50°-60°	1996.8	25.4
60°-70°	1858.9	23.6
70°-80°	713.4	9.1
80°-90°	44.3	0.6
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°	7866.0	100.0
0°-180°	7866.0	100.0

Coefficient of Utilization



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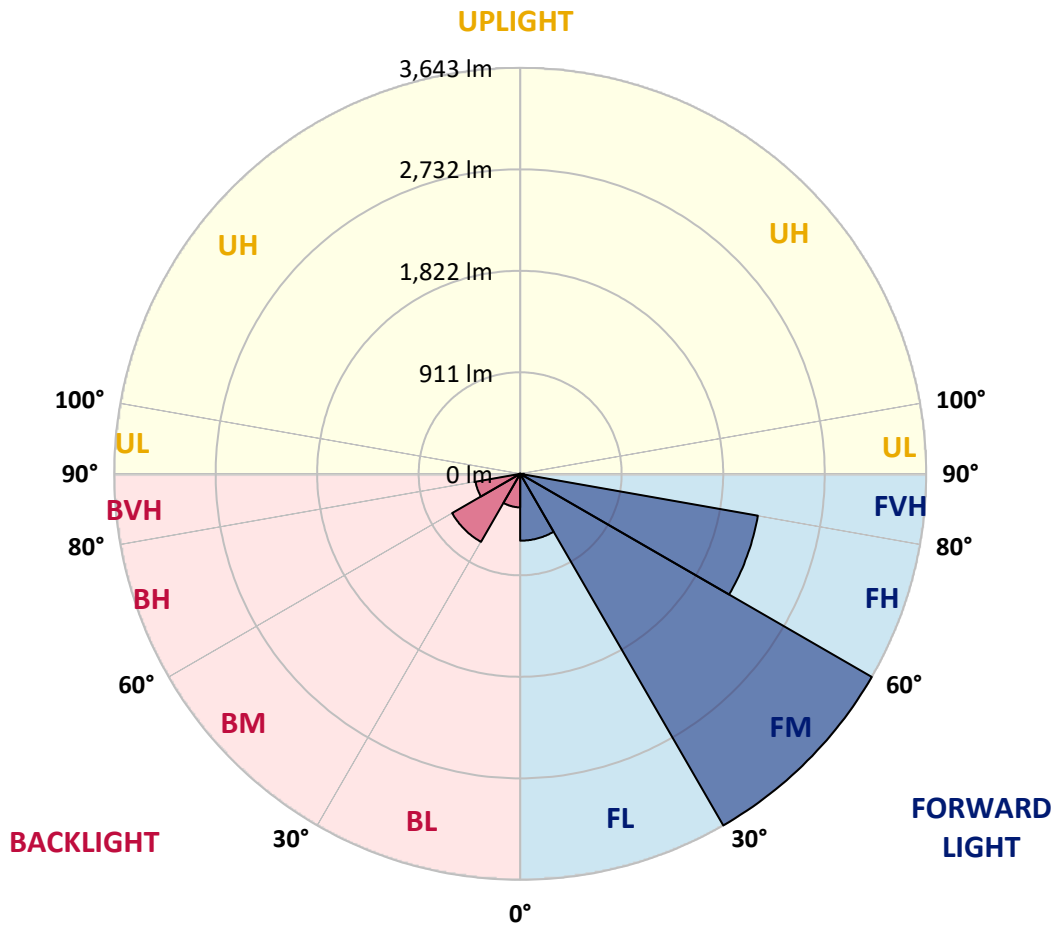
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	600.1	7.6			
FM (30°-60°)	3643.2	46.3			
FH (60°-80°)	2165.6	27.5			G2/5000
FVH (80°-90°)	32.2	0.4			G1/100
BL (0°-30°)	300.9	3.8	B1/500		
BM (30°-60°)	705.2	9.0	B1/1000		
BH (60°-80°)	406.7	5.2	B1/500		G1/500
BVH (80°-90°)	12.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1
2.5°	1377.3	1385.2	1380.7	1378.5	1374.5	1368.8	1364.3	1350.1	1335.4	1325.8
5°	1405.1	1413.0	1412.4	1414.7	1417.5	1419.2	1418.1	1402.2	1381.3	1364.9
7.5°	1381.3	1390.3	1397.7	1409.0	1428.9	1449.8	1460.0	1456.6	1435.1	1412.4
10°	1313.9	1323.5	1341.1	1367.7	1409.6	1454.9	1492.9	1510.4	1496.8	1471.9
12.5°	1190.4	1200.1	1234.6	1292.4	1362.6	1441.3	1513.8	1560.8	1564.2	1539.3
15°	1051.7	1061.3	1098.1	1170.6	1277.6	1403.9	1525.1	1614.0	1644.1	1622.5
17.5°	965.6	974.1	1001.8	1060.2	1171.7	1329.2	1521.2	1670.7	1739.2	1722.2
20°	939.5	946.9	959.9	1000.7	1093.6	1251.6	1495.1	1723.9	1841.7	1832.1
22.5°	967.3	974.1	978.1	996.2	1054.5	1200.6	1462.3	1778.3	1960.6	1961.8
25°	1031.3	1038.1	1033.6	1044.9	1070.4	1184.8	1449.8	1842.3	2110.2	2122.6
27.5°	1136.6	1137.2	1126.4	1125.9	1129.8	1208.6	1462.8	1910.8	2298.7	2322.0
30°	1347.9	1339.4	1298.0	1253.3	1232.9	1279.9	1499.1	1991.8	2521.3	2562.7
32.5°	1673.5	1661.1	1585.2	1478.1	1370.5	1394.9	1564.2	2084.1	2763.7	2838.5
35°	2026.9	2023.5	1944.2	1785.1	1597.1	1558.5	1670.1	2205.3	3028.2	3147.1
37.5°	2355.4	2353.7	2308.4	2120.9	1892.1	1786.8	1840.0	2363.9	3311.3	3483.5
40°	2655.5	2660.6	2615.3	2447.7	2217.2	2079.6	2071.1	2559.8	3626.2	3849.9
42.5°	2914.9	2920.6	2874.7	2750.7	2538.3	2403.5	2354.8	2799.9	3933.7	4243.5
45°	3091.0	3126.2	3119.4	3020.2	2867.9	2728.0	2695.7	3101.2	4284.3	4660.9
47.5°	3140.9	3173.2	3224.1	3237.7	3144.8	3007.2	3045.7	3464.3	4638.8	5078.9
50°	3018.0	3048.0	3153.9	3294.9	3359.5	3317.0	3386.1	3853.3	5001.8	5495.7
52.5°	2775.6	2806.2	2939.8	3163.0	3426.3	3560.0	3727.6	4236.7	5353.5	5890.4
55°	2425.0	2457.3	2628.9	2881.5	3298.9	3660.2	4012.5	4619.6	5675.8	6245.5
57.5°	1948.2	1972.0	2150.4	2503.8	2978.3	3560.5	4222.6	5037.5	5979.3	6594.4
60°	1269.7	1290.7	1497.9	1892.1	2447.1	3227.5	4264.5	5503.6	6382.6	7048.0
62.5°	844.4	858.6	981.5	1270.8	1723.3	2588.1	4019.3	5875.7	6973.8	7837.5
65°	579.4	593.5	716.4	918.0	1113.4	1712.0	3314.2	5826.4	7509.6	8464.4
67.5°	413.4	425.3	529.5	719.8	805.9	994.5	2246.6	5196.7	7432.5	8488.2
70°	296.2	303.0	389.1	560.7	640.5	597.5	1249.3	3974.5	6507.7	7838.0
72.5°	207.3	209.5	270.1	427.0	515.9	436.1	594.6	2649.9	4922.0	6152.1
75°	140.5	143.3	181.8	313.2	414.0	333.0	314.9	1420.9	2889.4	3405.4
77.5°	86.1	87.2	117.2	214.1	309.8	253.7	202.7	602.0	1117.9	1097.6
80°	48.7	48.7	74.8	133.1	211.2	163.7	142.1	256.0	354.0	310.9
82.5°	27.2	27.8	54.4	82.7	139.9	96.8	78.2	118.4	152.9	135.4
85°	11.3	12.5	33.4	39.1	66.8	48.1	31.7	49.8	56.6	50.4
87.5°	1.1	1.7	10.2	7.4	7.9	9.6	4.5	9.6	7.9	7.9
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°
1303.1	0°	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1	1303.1
1322.4	2.5°	1311.6	1303.1	1281.6	1256.7	1223.8	1208.0	1186.5	1171.7	1159.3	1160.4
1355.2	5°	1337.1	1315.6	1267.5	1207.4	1132.7	1079.4	1022.8	983.7	952.0	945.2
1400.5	7.5°	1372.2	1338.2	1253.9	1145.7	1019.4	923.7	838.2	783.2	744.2	731.7
1455.5	10°	1417.5	1368.3	1236.3	1068.1	886.3	764.5	672.8	629.8	603.1	594.1
1520.0	12.5°	1470.2	1402.8	1213.1	973.5	749.3	632.0	573.7	552.2	543.7	540.8
1599.3	15°	1536.5	1445.8	1178.0	861.4	633.2	551.0	526.1	523.3	524.4	523.3
1694.5	17.5°	1615.2	1492.9	1120.8	745.9	555.0	509.7	500.6	502.9	505.7	505.2
1800.9	20°	1701.3	1539.3	1047.7	643.4	501.8	480.2	475.2	477.4	479.7	478.6
1923.8	22.5°	1799.2	1589.1	966.7	563.5	466.1	453.1	447.4	448.0	448.0	445.7
2079.6	25°	1916.5	1644.1	881.8	506.9	438.9	428.7	421.9	419.7	416.3	409.5
2268.7	27.5°	2056.4	1702.4	800.2	467.2	417.4	407.8	399.8	394.2	385.7	374.3
2495.8	30°	2213.8	1773.2	731.1	442.3	400.4	390.8	381.7	373.2	360.8	346.6
2756.9	32.5°	2399.0	1849.1	680.7	425.9	385.1	374.9	364.2	354.0	340.4	326.2
3050.3	35°	2619.9	1940.8	651.3	414.6	373.2	359.6	347.7	336.4	326.2	313.7
3369.1	37.5°	2859.4	2038.2	642.2	408.9	365.3	344.3	330.7	322.8	321.7	314.3
3714.0	40°	3121.6	2153.8	649.0	405.5	356.8	329.6	314.9	313.2	316.0	303.0
4082.7	42.5°	3399.1	2290.8	660.3	401.5	344.9	314.9	300.7	300.7	298.5	280.3
4472.3	45°	3699.3	2448.8	671.7	391.9	330.7	300.2	289.4	285.4	275.8	258.2
4864.2	47.5°	4001.7	2609.7	680.2	374.3	313.7	287.7	278.1	269.0	254.8	239.0
5248.8	50°	4288.8	2754.1	671.1	348.3	294.5	275.8	265.6	253.2	237.9	227.1
5612.9	52.5°	4545.4	2879.2	632.6	317.7	274.1	263.3	254.3	241.3	228.8	217.5
5941.4	55°	4768.5	2980.6	564.6	288.8	256.0	252.6	243.5	227.1	210.1	200.5
6267.0	57.5°	4982.6	3057.6	479.7	265.0	239.6	240.7	227.1	212.4	196.5	186.3
6705.9	60°	5267.5	3160.7	393.6	243.0	222.0	225.4	210.7	199.9	180.1	167.1
7458.6	62.5°	5722.8	3321.0	312.6	215.8	201.6	202.7	196.5	183.5	159.7	144.4
8016.4	65°	6084.1	3262.1	246.4	186.3	178.4	180.1	180.1	165.9	140.5	122.9
8046.4	67.5°	6043.3	2793.1	196.5	157.4	156.3	157.4	161.4	149.5	124.6	110.4
7433.7	70°	5567.0	2221.7	157.4	130.8	135.9	133.1	144.4	136.5	112.1	98.0
5763.0	72.5°	4542.5	1600.5	120.1	108.2	104.2	108.7	130.3	122.9	93.4	77.6
3052.5	75°	2654.4	854.0	89.5	85.5	75.3	90.6	115.5	104.8	71.4	57.2
935.6	77.5°	864.2	297.9	65.7	62.9	56.1	73.1	98.5	88.3	58.3	45.3
274.1	80°	231.6	90.0	44.7	41.3	36.2	54.4	78.2	70.2	41.9	29.4
117.8	82.5°	92.9	37.9	26.1	23.2	19.8	37.4	61.7	56.6	31.1	18.7
36.8	85°	30.0	12.5	9.6	7.4	9.1	23.2	36.8	38.5	22.1	9.6
5.7	87.5°	4.0	1.7	1.7	2.3	1.7	4.0	11.3	10.8	6.2	1.1
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

180°
1303.1
1149.1
929.9
719.2
587.3
539.1
522.7
504.0
478.0
444.6
408.3
373.2
345.5
326.8
312.6
313.7
303.6
280.3
257.7
238.4
225.4
216.3
199.3
185.2
165.4
143.3
121.2
108.2
96.3
75.9
55.5
43.6
28.9
18.7
7.4
0.0
0.0

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