

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: P939274

Luminaire Tested: **GALN-SB1D-750-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939274
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-SB1D-750-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7864 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

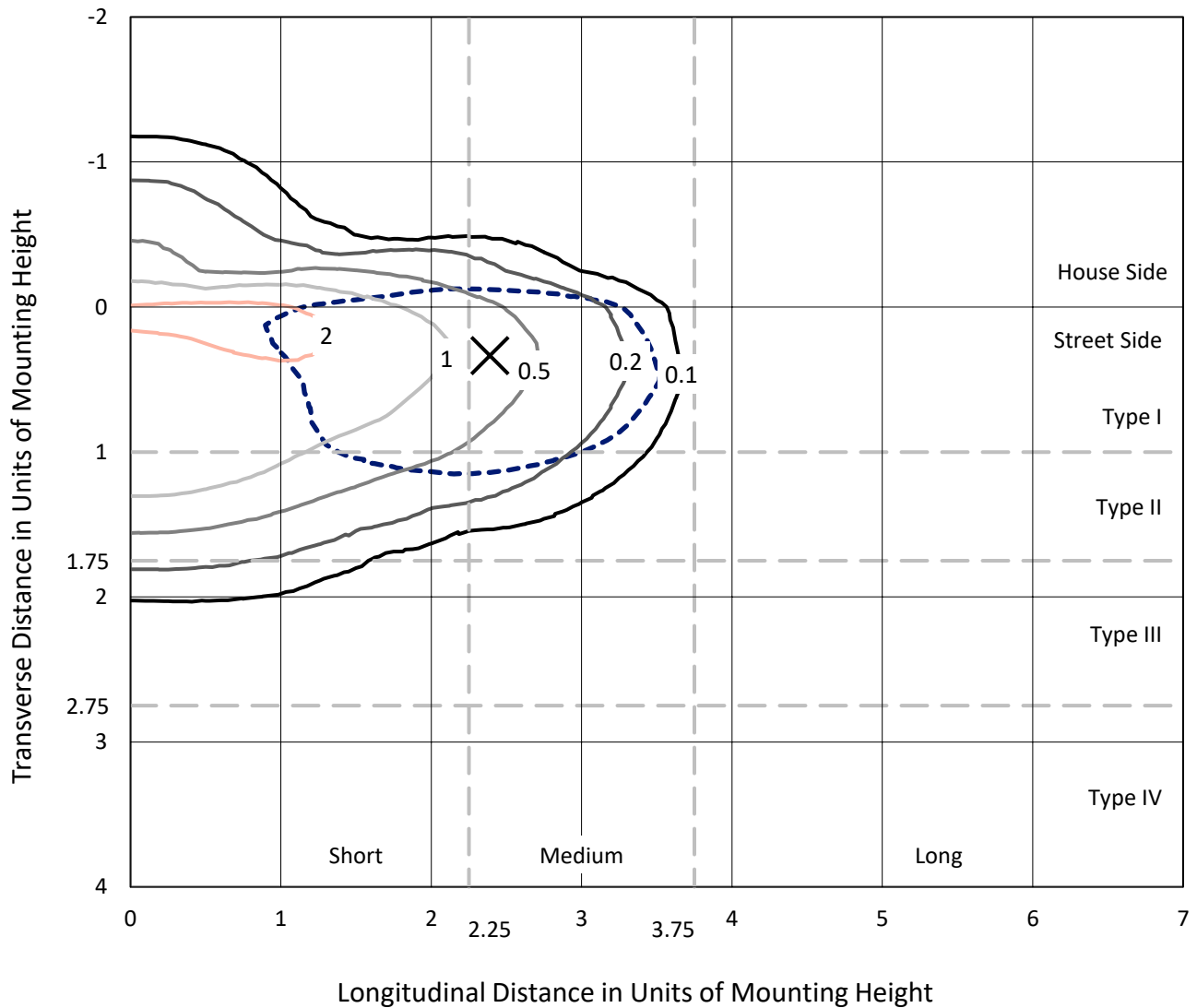
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

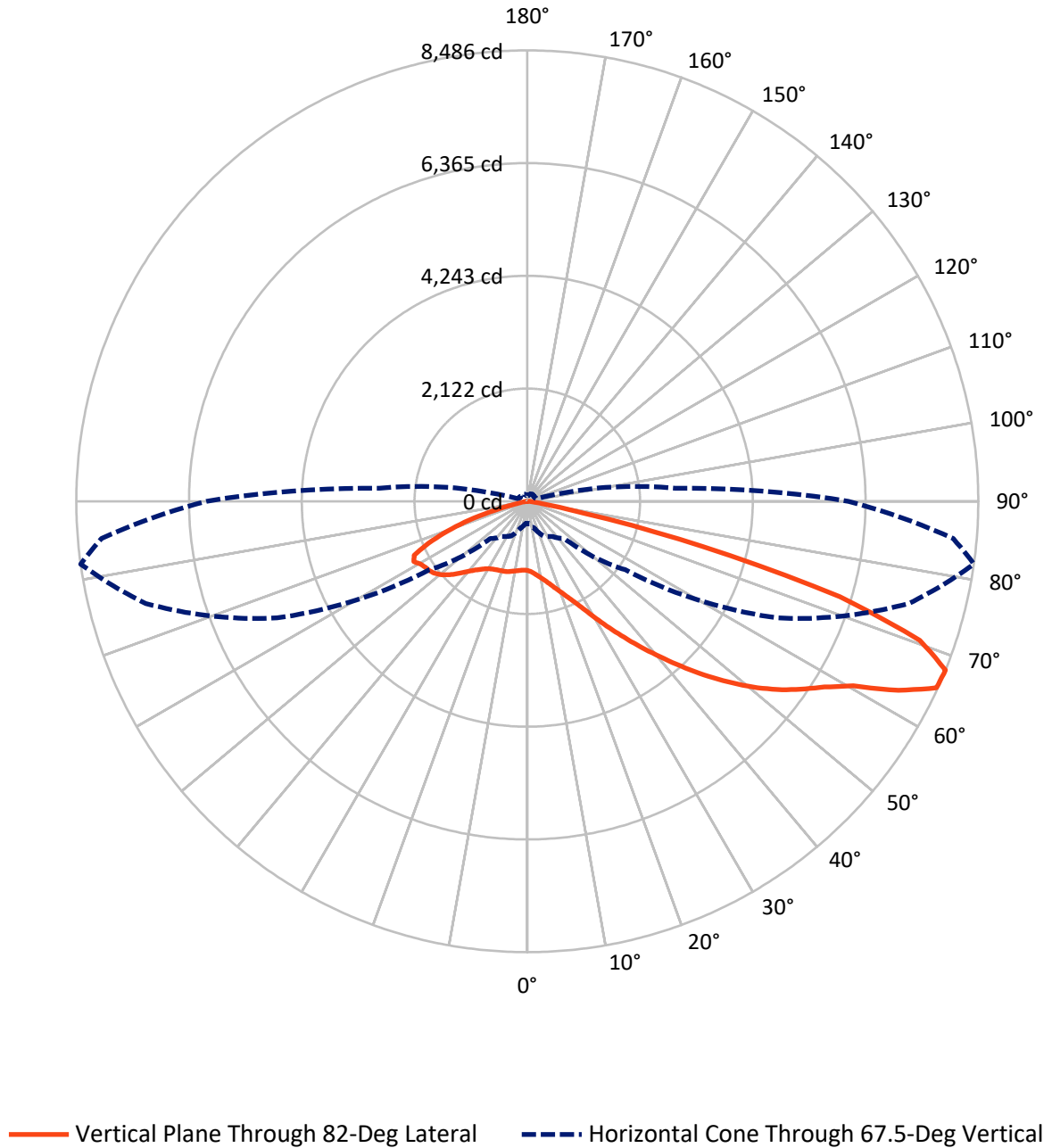
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	1424.5	0.0	1424.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6439.5	0.0	6439.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	7864.0	0.0	7864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	1.5
10°-20°	301.6	3.8
20°-30°	483.1	6.1
30°-40°	854.3	10.9
40°-50°	1496.8	19.0
50°-60°	1996.2	25.4
60°-70°	1858.4	23.6
70°-80°	713.3	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°	7864.0	100.0
0°-180°	7864.0	100.0

Coefficient of Utilization



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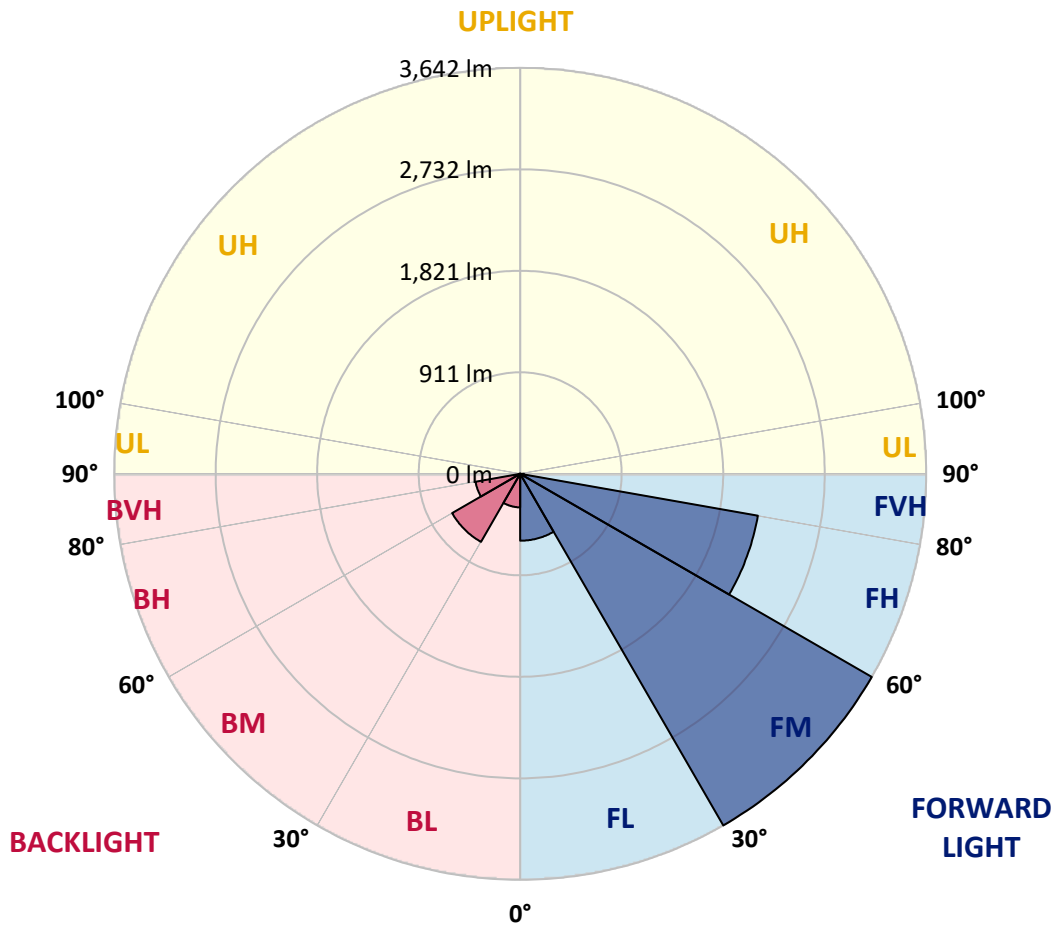
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.9	7.6			
FM (30°-60°)	3642.3	46.3			
FH (60°-80°)	2165.1	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°)	705.0	9.0	B1/1000		
BH (60°-80°)	406.6	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°	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8
2.5°	1377.0	1384.9	1380.4	1378.1	1374.1	1368.5	1363.9	1349.8	1335.1	1325.4
5°	1404.7	1412.6	1412.1	1414.3	1417.2	1418.9	1417.7	1401.9	1380.9	1364.5
7.5°	1380.9	1390.0	1397.4	1408.7	1428.5	1449.4	1459.6	1456.2	1434.7	1412.1
10°	1313.6	1323.2	1340.7	1367.3	1409.2	1454.5	1492.5	1510.0	1496.4	1471.5
12.5°	1190.1	1199.8	1234.3	1292.0	1362.2	1440.9	1513.4	1560.4	1563.8	1538.9
15°	1051.4	1061.0	1097.8	1170.3	1277.3	1403.6	1524.7	1613.6	1643.6	1622.1
17.5°	965.4	973.8	1001.6	1059.9	1171.4	1328.8	1520.8	1670.3	1738.8	1721.8
20°	939.3	946.7	959.7	1000.5	1093.3	1251.3	1494.7	1723.5	1841.2	1831.6
22.5°	967.0	973.8	977.8	995.9	1054.2	1200.3	1461.9	1777.8	1960.1	1961.3
25°	1031.0	1037.8	1033.3	1044.6	1070.1	1184.5	1449.4	1841.8	2109.6	2122.1
27.5°	1136.3	1136.9	1126.1	1125.6	1129.5	1208.2	1462.5	1910.3	2298.2	2321.4
30°	1347.5	1339.0	1297.7	1253.0	1232.6	1279.6	1498.7	1991.3	2520.7	2562.0
32.5°	1673.1	1660.6	1584.8	1477.8	1370.2	1394.5	1563.8	2083.6	2763.0	2837.7
35°	2026.4	2023.0	1943.7	1784.6	1596.7	1558.1	1669.7	2204.7	3027.4	3146.3
37.5°	2354.8	2353.1	2307.8	2120.4	1891.6	1786.3	1839.5	2363.3	3310.5	3482.6
40°	2654.9	2660.0	2614.7	2447.1	2216.6	2079.0	2070.5	2559.2	3625.3	3848.9
42.5°	2914.2	2919.8	2874.0	2750.0	2537.7	2402.9	2354.2	2799.2	3932.7	4242.4
45°	3090.3	3125.4	3118.6	3019.5	2867.2	2727.3	2695.1	3100.4	4283.2	4659.7
47.5°	3140.1	3172.4	3223.3	3236.9	3144.0	3006.5	3045.0	3463.4	4637.6	5077.6
50°	3017.2	3047.2	3153.1	3294.1	3358.6	3316.2	3385.2	3852.3	5000.6	5494.3
52.5°	2774.9	2805.5	2939.1	3162.2	3425.4	3559.1	3726.6	4235.7	5352.2	5888.9
55°	2424.4	2456.7	2628.2	2880.8	3298.0	3659.3	4011.4	4618.4	5674.3	6243.9
57.5°	1947.7	1971.5	2149.8	2503.1	2977.6	3559.6	4221.5	5036.2	5977.8	6592.7
60°	1269.4	1290.3	1497.6	1891.6	2446.5	3226.7	4263.4	5502.2	6380.9	7046.2
62.5°	844.2	858.3	981.2	1270.5	1722.9	2587.5	4018.2	5874.2	6972.0	7835.5
65°	579.2	593.4	716.2	917.8	1113.1	1711.6	3313.3	5824.9	7507.7	8462.2
67.5°	413.3	425.2	529.4	719.6	805.7	994.2	2246.1	5195.3	7430.7	8486.0
70°	296.1	302.9	389.0	560.5	640.4	597.3	1249.0	3973.5	6506.1	7836.0
72.5°	207.2	209.5	270.1	426.9	515.8	436.0	594.5	2649.2	4920.7	6150.5
75°	140.4	143.2	181.7	313.1	413.9	332.9	314.8	1420.6	2888.7	3404.5
77.5°	86.1	87.2	117.2	214.0	309.7	253.7	202.7	601.9	1117.7	1097.3
80°	48.7	48.7	74.7	133.1	211.2	163.6	142.1	255.9	353.9	310.8
82.5°	27.2	27.7	54.4	82.7	139.8	96.8	78.1	118.3	152.9	135.3
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°
1302.8	0°	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8
1322.0	2.5°	1311.3	1302.8	1281.3	1256.4	1223.5	1207.7	1186.2	1171.4	1159.0	1160.1
1354.9	5°	1336.8	1315.3	1267.1	1207.1	1132.4	1079.2	1022.5	983.5	951.8	945.0
1400.2	7.5°	1371.9	1337.9	1253.5	1145.4	1019.1	923.5	838.0	783.0	744.0	731.5
1455.1	10°	1417.2	1367.9	1236.0	1067.8	886.1	764.4	672.6	629.6	603.0	593.9
1519.6	12.5°	1469.8	1402.4	1212.8	973.3	749.1	631.9	573.5	552.0	543.5	540.7
1598.9	15°	1536.1	1445.5	1177.7	861.2	633.0	550.9	526.0	523.2	524.3	523.2
1694.0	17.5°	1614.8	1492.5	1120.5	745.7	554.9	509.6	500.5	502.8	505.6	505.0
1800.5	20°	1700.8	1538.9	1047.4	643.2	501.6	480.1	475.0	477.3	479.6	478.4
1923.3	22.5°	1798.8	1588.7	966.5	563.4	466.0	453.0	447.3	447.9	447.9	445.6
2079.0	25°	1916.0	1643.6	881.6	506.7	438.8	428.6	421.8	419.5	416.1	409.4
2268.1	27.5°	2055.8	1702.0	800.0	467.1	417.3	407.7	399.7	394.1	385.6	374.3
2495.2	30°	2213.2	1772.7	730.9	442.2	400.3	390.7	381.6	373.1	360.7	346.5
2756.2	32.5°	2398.4	1848.6	680.6	425.8	385.0	374.8	364.1	353.9	340.3	326.1
3049.5	35°	2619.2	1940.3	651.1	414.4	373.1	359.5	347.6	336.3	326.1	313.7
3368.3	37.5°	2858.7	2037.7	642.1	408.8	365.2	344.2	330.7	322.7	321.6	314.2
3713.1	40°	3120.8	2153.2	648.9	405.4	356.7	329.5	314.8	313.1	315.9	302.9
4081.6	42.5°	3398.3	2290.2	660.2	401.4	344.8	314.8	300.6	300.6	298.4	280.3
4471.2	45°	3698.3	2448.2	671.5	391.8	330.7	300.1	289.3	285.4	275.7	258.2
4863.0	47.5°	4000.7	2609.0	680.0	374.3	313.7	287.6	278.0	268.9	254.8	238.9
5247.4	50°	4287.7	2753.4	670.9	348.2	294.4	275.7	265.5	253.1	237.8	227.0
5611.5	52.5°	4544.2	2878.5	632.4	317.6	274.0	263.3	254.2	241.2	228.7	217.4
5939.9	55°	4767.3	2979.8	564.5	288.8	255.9	252.5	243.5	227.0	210.1	200.4
6265.4	57.5°	4981.3	3056.8	479.6	265.0	239.5	240.6	227.0	212.3	196.5	186.3
6704.2	60°	5266.1	3159.9	393.5	242.9	221.9	225.3	210.6	199.9	180.0	167.0
7456.7	62.5°	5721.3	3320.1	312.5	215.7	201.6	202.7	196.5	183.4	159.7	144.4
8014.4	65°	6082.6	3261.2	246.3	186.3	178.3	180.0	180.0	165.9	140.4	122.9
8044.4	67.5°	6041.8	2792.4	196.5	157.4	156.3	157.4	161.4	149.5	124.6	110.4
7431.8	70°	5565.6	2221.2	157.4	130.8	135.9	133.1	144.4	136.5	112.1	98.0
5761.5	72.5°	4541.4	1600.0	120.0	108.1	104.2	108.7	130.2	122.9	93.4	77.6
3051.8	75°	2653.7	853.8	89.5	85.5	75.3	90.6	115.5	104.7	71.3	57.2
935.3	77.5°	864.0	297.8	65.7	62.8	56.1	73.0	98.5	88.3	58.3	45.3
274.0	80°	231.6	90.0	44.7	41.3	36.2	54.4	78.1	70.2	41.9	29.4
117.8	82.5°	92.9	37.9	26.0	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°
1302.8
1148.8
929.7
719.1
587.1
539.0
522.6
503.9
477.9
444.5
408.2
373.1
345.4
326.7
312.5
313.7
303.5
280.3
257.6
238.4
225.3
216.3
199.3
185.1
165.3
143.2
121.2
108.1
96.3
75.9
55.5
43.6
28.9
18.7
7.4
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