

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: P947659

Luminaire Tested: **GALN-SB2D-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11270 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

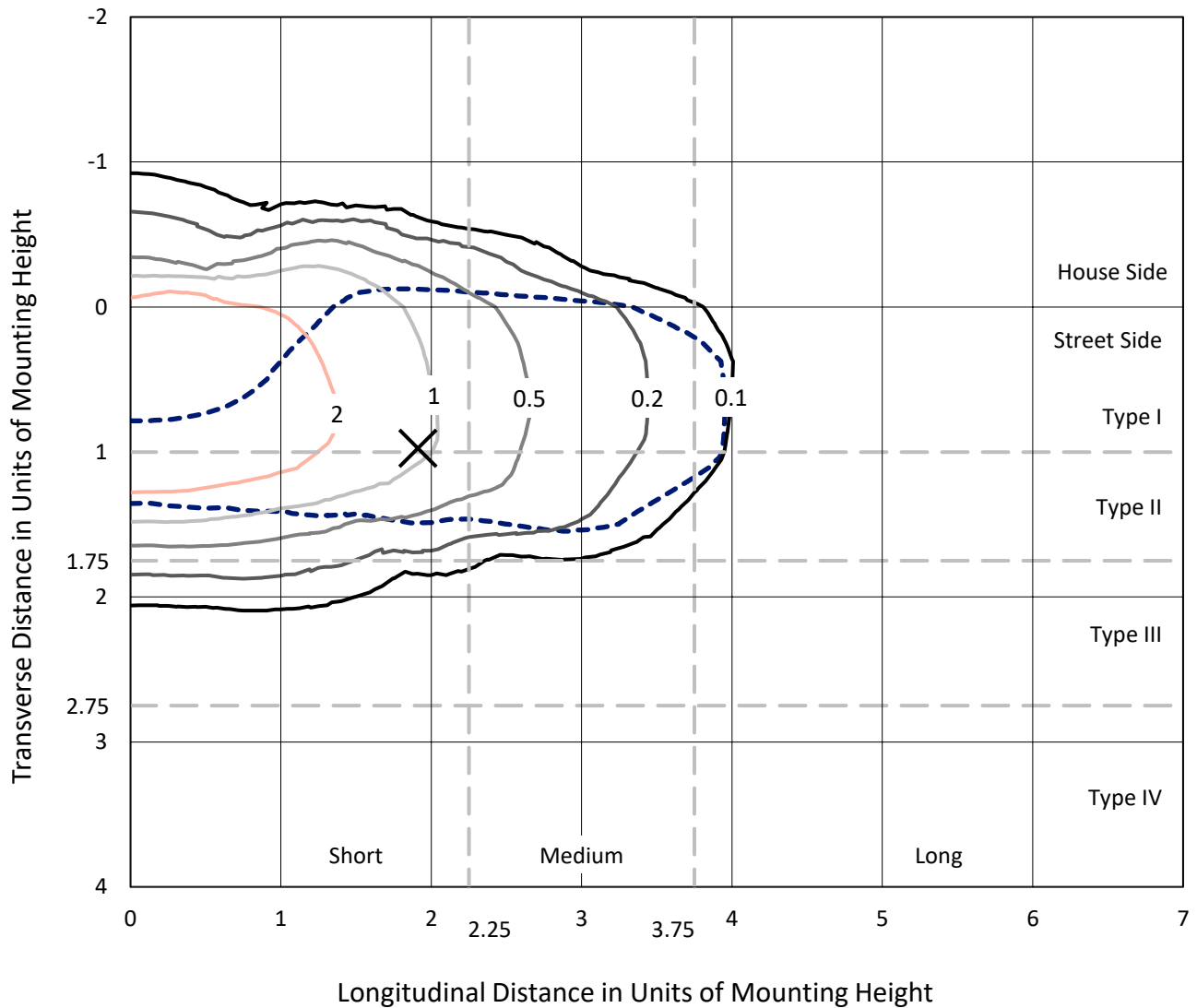
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

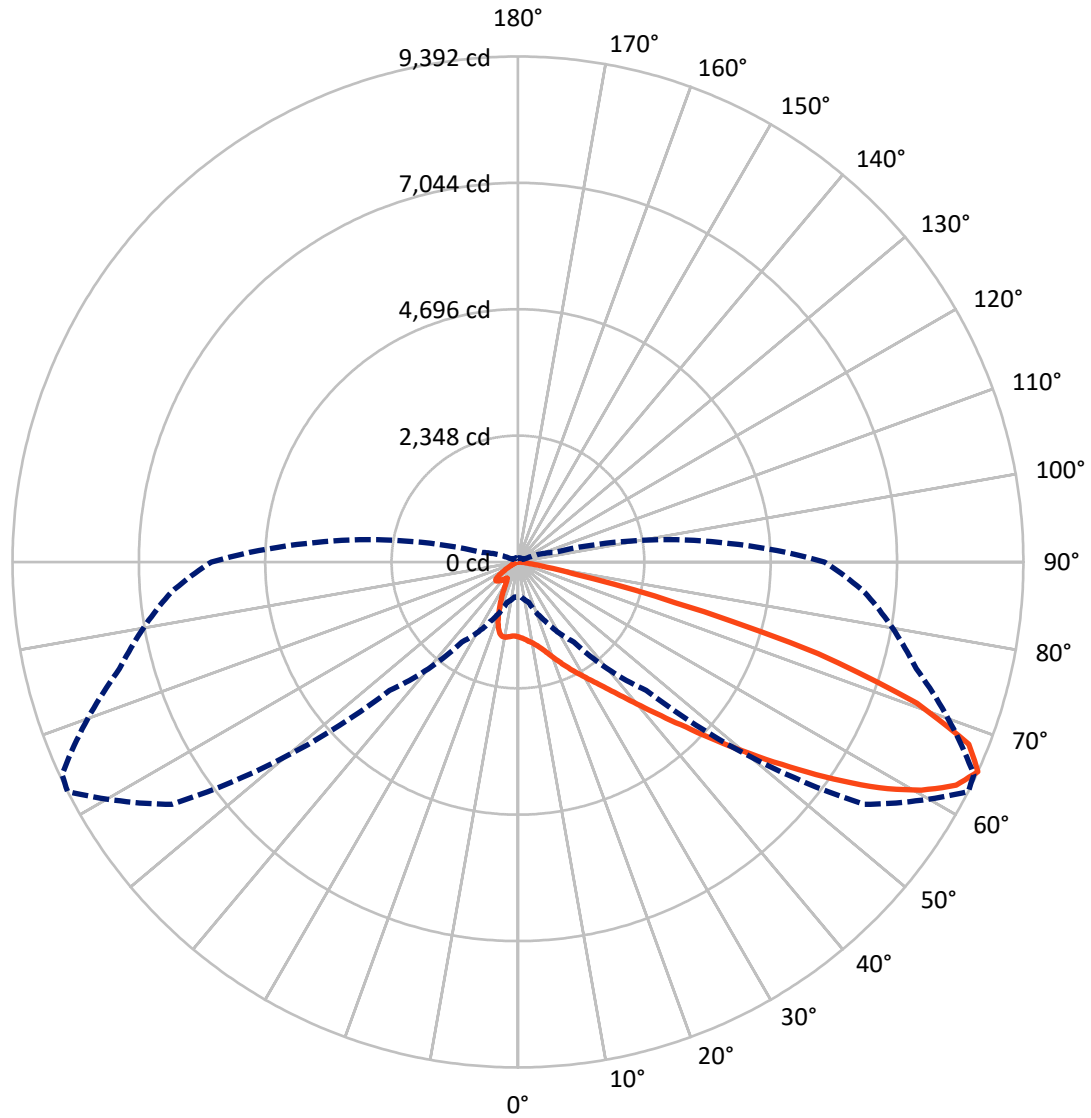
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1656.6	0.0	1656.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	9613.4	0.0	9613.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	11270.0	0.0	11270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	1.2
10°-20°	363.6	3.2
20°-30°	633.2	5.6
30°-40°	1141.2	10.1
40°-50°	2263.4	20.1
50°-60°	3083.1	27.4
60°-70°	2460.9	21.8
70°-80°	1113.6	9.9
80°-90°	80.1	0.7
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°	11270.0	100.0
0°-180°	11270.0	100.0

Coefficient of Utilization



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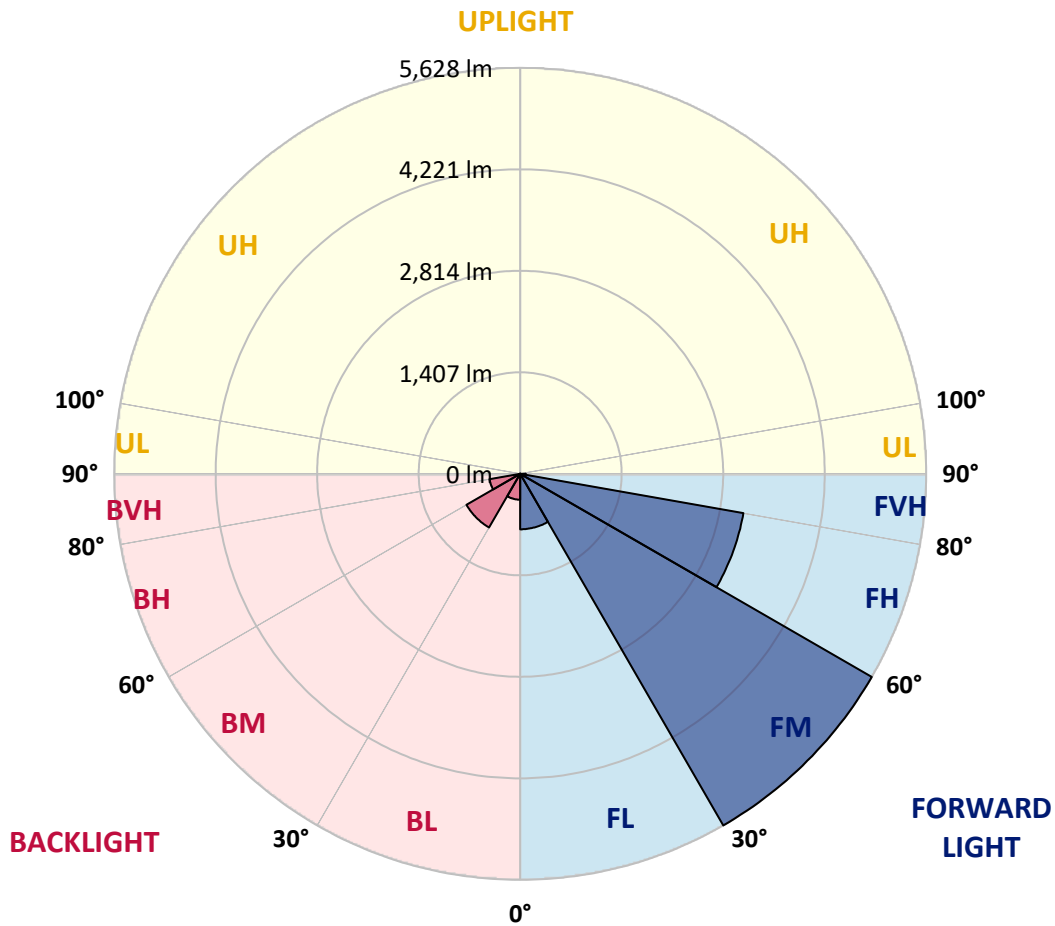
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	769.3	6.8			
FM (30°-60°)	5628.0	49.9			
FH (60°-80°)	3142.0	27.9			G2/5000
FVH (80°-90°)	74.1	0.7			G1/100
BL (0°-30°)	358.5	3.2	B1/500		
BM (30°-60°)	859.7	7.6	B1/1000		
BH (60°-80°)	432.5	3.8	B1/500		G1/500
BVH (80°-90°)	5.9	0.1			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9
2.5°	1423.5	1419.6	1425.0	1422.7	1421.2	1418.1	1416.5	1415.0	1411.9	1409.5
5°	1427.4	1425.0	1430.5	1435.1	1439.8	1444.4	1446.8	1449.9	1446.8	1440.6
7.5°	1394.8	1393.3	1404.9	1418.8	1439.8	1457.6	1477.0	1487.8	1488.6	1486.3
10°	1392.5	1388.6	1400.2	1417.3	1444.4	1476.2	1510.3	1533.6	1536.7	1546.8
12.5°	1428.9	1425.0	1441.3	1459.9	1487.8	1521.2	1563.1	1595.6	1600.3	1614.2
15°	1490.2	1484.7	1503.4	1527.4	1563.1	1601.0	1645.2	1674.7	1678.6	1695.6
17.5°	1561.5	1556.1	1577.8	1603.4	1642.1	1694.1	1745.3	1777.8	1782.5	1793.3
20°	1653.0	1646.0	1663.1	1686.3	1727.4	1789.4	1850.7	1897.2	1896.4	1896.4
22.5°	1759.2	1748.4	1763.1	1781.7	1820.5	1895.7	1977.1	2032.1	2032.1	2010.4
25°	1873.2	1862.3	1878.6	1895.7	1929.8	2015.1	2110.4	2178.7	2181.8	2144.5
27.5°	2015.8	2001.9	2014.3	2034.4	2054.6	2141.4	2254.6	2333.7	2335.3	2277.9
30°	2290.3	2250.8	2212.0	2190.3	2199.6	2285.7	2406.6	2494.2	2502.0	2422.9
32.5°	2792.7	2785.0	2648.5	2470.2	2377.1	2440.7	2576.4	2681.8	2686.5	2584.9
35°	3573.5	3564.2	3344.7	3005.2	2702.0	2648.5	2782.6	2907.5	2904.4	2789.6
37.5°	4505.4	4496.9	4207.7	3753.3	3262.6	2962.5	3048.6	3179.6	3199.0	3048.6
40°	5301.7	5269.9	5086.9	4648.8	4006.9	3483.5	3426.9	3513.8	3533.9	3355.6
42.5°	5904.9	5877.7	5784.7	5511.0	4907.8	4254.2	3872.7	3906.1	3928.6	3714.6
45°	6217.3	6211.1	6248.3	6222.7	5825.8	5200.1	4510.1	4371.3	4379.8	4112.3
47.5°	6261.5	6258.4	6428.2	6668.6	6615.1	6266.9	5328.0	4951.2	4921.0	4561.2
50°	6001.0	5994.8	6320.4	6770.9	7142.3	7163.2	6256.9	5604.8	5538.1	5025.6
52.5°	5169.1	5167.5	5702.5	6452.2	7327.6	7947.8	7174.8	6322.8	6211.1	5517.2
55°	3977.4	4006.1	4619.4	5505.6	6989.5	8325.4	7999.0	7119.8	6948.5	6011.9
57.5°	2817.5	2859.4	3465.7	4255.0	5941.3	8102.1	8556.5	7918.4	7733.9	6505.0
60°	1513.4	1550.6	2157.7	3099.7	4420.1	7269.4	8850.3	8611.5	8437.1	6973.3
62.5°	901.7	914.1	1165.3	2001.1	2989.6	5553.6	8725.5	9139.5	8996.1	7366.4
65°	647.4	649.7	776.1	1221.9	1815.0	3374.2	7850.2	9392.3	9348.1	7662.5
67.5°	545.1	543.5	596.2	811.8	1236.6	1690.2	6016.5	9034.8	9222.5	7850.2
70°	467.5	469.8	531.9	594.7	929.6	956.7	2991.2	7866.4	8266.5	7899.8
72.5°	348.1	355.9	413.2	542.0	701.7	658.2	1032.7	5832.8	6556.1	7443.1
75°	245.8	249.7	290.7	455.9	523.3	479.2	527.2	3015.2	3942.5	5706.4
77.5°	189.2	196.2	220.2	318.7	515.6	336.5	322.5	1043.6	1603.4	3447.1
80°	102.3	114.7	158.9	230.3	362.1	238.0	159.7	415.6	543.5	1611.9
82.5°	52.7	58.9	110.9	165.9	206.2	207.8	79.1	172.9	224.1	497.8
85°	20.9	25.6	74.4	91.5	106.2	102.3	35.7	69.8	80.6	138.0
87.5°	4.7	7.8	27.1	20.9	20.2	21.7	8.5	16.3	15.5	16.3
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°
1390.9	0°	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9
1400.2	2.5°	1399.5	1396.4	1387.8	1378.5	1367.7	1361.5	1357.6	1356.8	1351.4	1347.5
1431.2	5°	1422.7	1419.6	1403.3	1384.0	1363.0	1346.7	1331.2	1317.3	1297.1	1293.2
1476.2	7.5°	1469.2	1460.7	1434.3	1408.0	1368.4	1321.2	1263.8	1197.9	1139.0	1121.1
1535.9	10°	1526.6	1515.0	1481.6	1435.1	1347.5	1218.8	1080.0	951.3	849.0	820.3
1606.5	12.5°	1591.7	1581.7	1537.5	1451.4	1259.9	1026.5	814.1	654.4	555.1	530.3
1681.7	15°	1669.3	1654.5	1593.3	1426.6	1103.3	780.0	559.0	464.4	428.8	424.1
1767.7	17.5°	1751.5	1727.4	1642.9	1337.4	892.4	554.4	431.9	404.7	389.2	384.6
1854.6	20°	1826.7	1795.6	1672.4	1202.5	666.8	431.9	386.9	369.1	355.1	349.7
1941.4	22.5°	1901.9	1857.7	1672.4	1018.8	500.1	383.0	355.1	338.8	322.5	315.6
2034.4	25°	1980.2	1921.3	1642.9	814.1	402.4	351.2	324.9	307.0	293.1	284.5
2122.8	27.5°	2056.2	1974.7	1575.5	620.3	358.2	323.3	296.9	279.9	266.7	260.5
2219.0	30°	2128.3	2027.5	1480.9	470.6	329.5	296.2	271.4	256.6	243.5	237.2
2343.8	32.5°	2226.0	2094.1	1380.1	386.1	304.7	270.6	248.1	234.1	222.5	217.9
2505.8	35°	2361.6	2192.6	1293.2	379.1	283.8	249.7	227.2	214.0	202.4	198.5
2715.2	37.5°	2553.9	2351.6	1247.5	425.7	266.7	231.0	210.1	196.2	185.3	182.2
2981.1	40°	2791.2	2567.1	1272.3	472.2	255.1	214.8	194.6	180.7	171.3	167.5
3286.6	42.5°	3072.6	2833.0	1409.5	507.8	247.3	200.8	179.9	164.4	158.2	156.6
3633.2	45°	3395.9	3125.3	1619.7	545.8	234.9	187.6	165.1	153.5	148.9	148.1
4010.0	47.5°	3763.4	3446.3	1863.1	593.1	222.5	175.2	153.5	145.8	141.9	140.3
4403.1	50°	4127.8	3769.6	2113.5	619.5	212.4	163.6	144.2	138.0	134.9	134.1
4818.6	52.5°	4509.3	4102.2	2315.9	594.7	203.9	154.3	136.5	131.8	128.7	127.9
5201.6	55°	4872.9	4371.3	2350.8	504.7	186.9	145.0	127.9	125.6	121.7	121.7
5590.1	57.5°	5186.1	4506.2	2104.2	370.6	169.8	131.0	119.4	117.1	114.0	113.2
5940.5	60°	5473.8	4467.4	1624.3	249.7	151.2	117.1	108.5	107.0	103.9	100.0
6245.2	62.5°	5635.8	4296.8	1111.0	162.8	132.6	102.3	96.1	95.4	88.4	80.6
6470.9	65°	5697.1	3946.4	693.1	118.6	110.9	87.6	83.0	81.4	71.3	62.8
6598.8	67.5°	5643.6	3369.6	349.7	93.8	87.6	72.9	68.2	68.2	61.3	53.5
6591.0	70°	5429.6	2526.0	147.3	75.2	67.5	55.8	55.8	58.9	51.9	43.4
6249.1	72.5°	4965.2	1699.5	78.3	57.4	50.4	39.5	45.7	48.1	41.1	32.6
5114.8	75°	3947.2	1036.6	54.3	42.6	31.8	27.9	34.9	36.4	27.9	21.7
3506.8	77.5°	2699.7	595.4	36.4	27.1	20.2	16.3	24.0	22.5	14.7	10.1
1352.2	80°	1185.5	248.1	20.9	12.4	7.8	6.2	8.5	6.2	4.7	3.1
185.3	82.5°	138.8	58.1	7.8	4.7	3.1	1.6	0.8	0.0	0.0	0.0
56.6	85°	28.7	7.0	3.9	1.6	0.8	0.0	0.0	0.0	0.0	0.0
10.1	87.5°	5.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
1390.9
1351.4
1291.7
1112.6
809.4
523.3
419.5
382.2
346.6
311.7
281.4
260.5
238.0
217.9
198.5
181.4
166.7
156.6
147.3
140.3
134.1
127.9
121.0
112.4
99.2
79.1
62.0
52.7
42.6
32.6
20.9
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