

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: P949107

Luminaire Tested: **GALN-SB3D-950-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-950-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21634 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

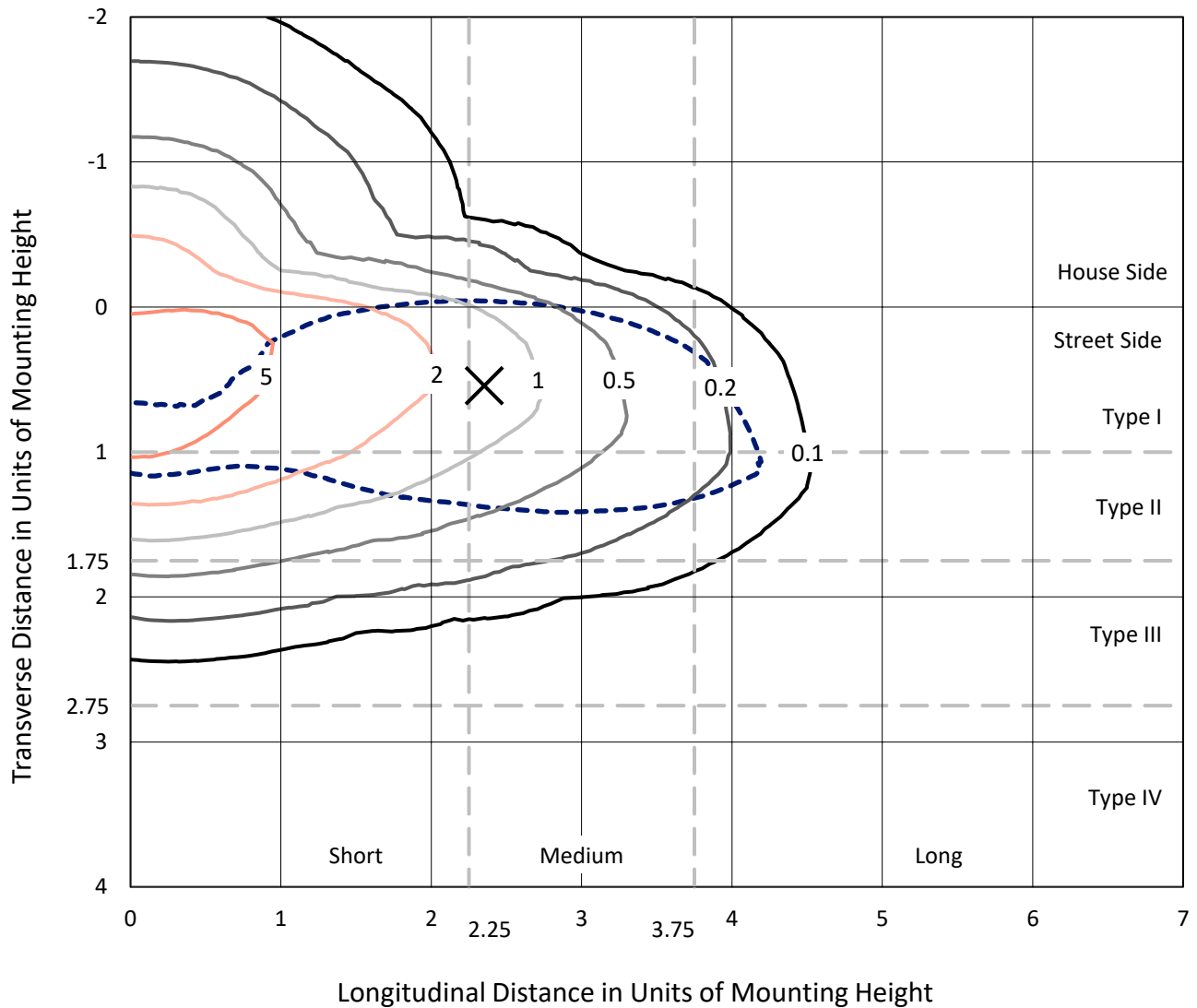
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

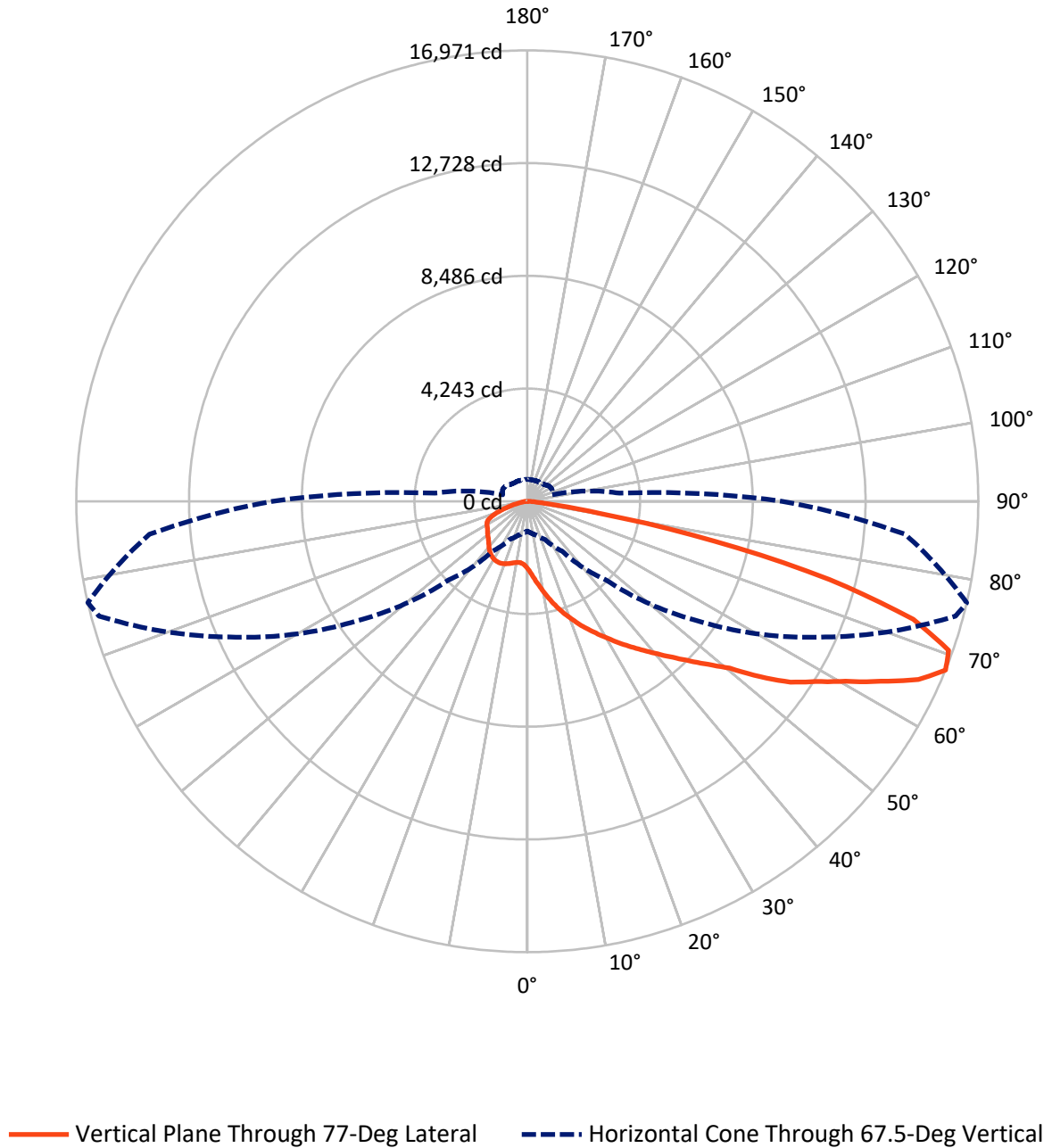
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	4092.3	0.0	4092.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	17541.7	0.0	17541.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	21634.0	0.0	21634.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.1	1.3
10°-20°	977.5	4.5
20°-30°	1845.5	8.5
30°-40°	2973.1	13.7
40°-50°	4066.7	18.8
50°-60°	4587.3	21.2
60°-70°	4281.7	19.8
70°-80°	2347.1	10.8
80°-90°	283.1	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°	21634.0	100.0
0°-180°	21634.0	100.0



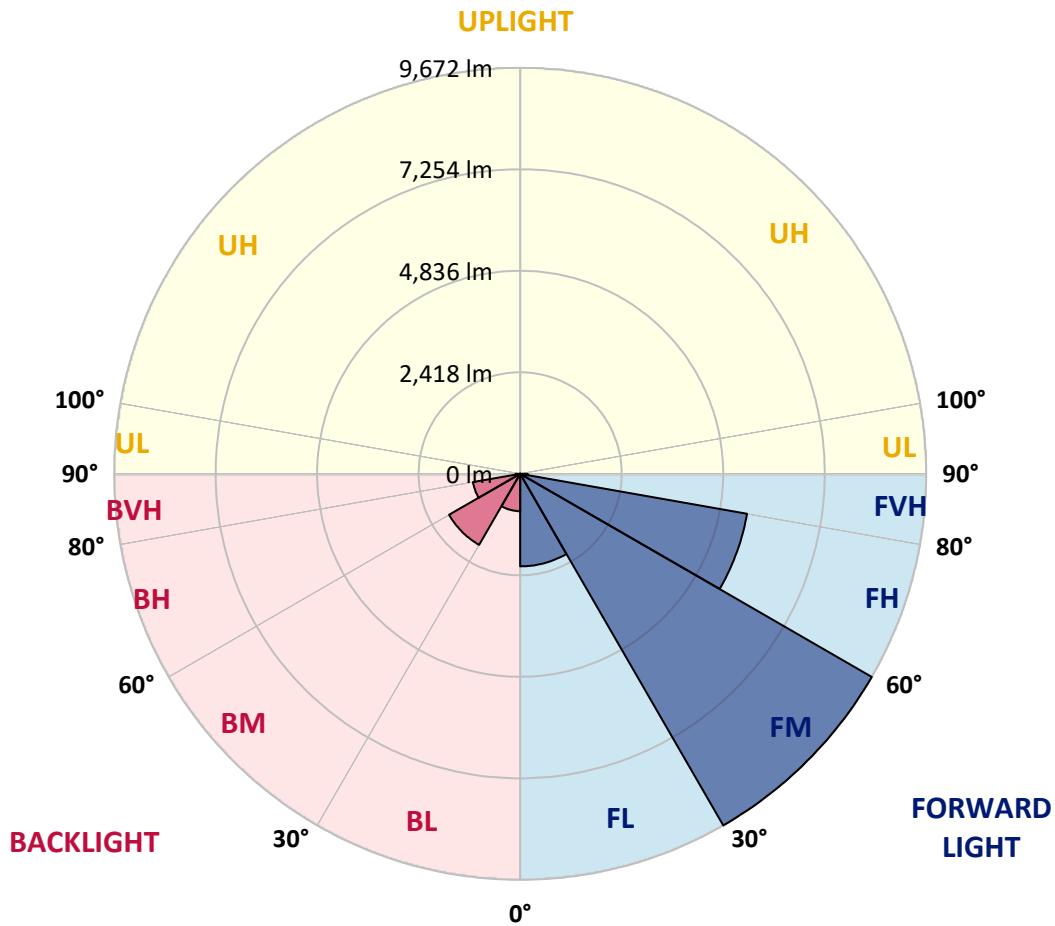
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2205.3	10.2			
FM (30°-60°)	9672.3	44.7			
FH (60°-80°)	5487.0	25.4			G3/7500
FVH (80°-90°)	177.1	0.8			G2/225
BL (0°-30°)	889.8	4.1	B2/1000		
BM (30°-60°)	1954.8	9.0	B2/2500		
BH (60°-80°)	1141.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	106.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2538.3	2538.3	2538.3	2538.3	2538.3	2538.3	2538.3	2538.3	2538.3	2538.3
2.5°	3178.2	3200.6	3172.6	3172.6	3078.8	3029.7	2935.9	2864.4	2736.0	2713.7
5°	3756.7	3784.6	3745.5	3728.8	3618.2	3516.6	3359.1	3203.9	2975.0	2951.5
7.5°	4204.5	4240.2	4205.6	4187.8	4089.5	3975.6	3791.3	3574.7	3251.9	3206.1
10°	4569.7	4575.3	4564.1	4570.8	4493.7	4399.9	4211.2	3958.8	3555.7	3493.1
12.5°	4776.3	4802.0	4824.3	4864.5	4851.1	4793.0	4623.3	4321.8	3877.3	3796.9
15°	4873.4	4918.1	4968.4	5061.0	5135.9	5150.4	5020.8	4711.5	4204.5	4107.4
17.5°	4908.1	4950.5	5029.8	5163.8	5324.6	5432.9	5374.8	5090.1	4528.4	4416.7
20°	5083.4	5095.7	5143.7	5271.0	5445.2	5625.0	5668.6	5454.1	4848.9	4722.7
22.5°	5458.6	5434.0	5447.4	5505.5	5630.6	5804.8	5904.2	5775.8	5178.3	5033.1
25°	6078.4	6006.9	5935.5	5868.4	5932.1	6030.4	6143.2	6097.4	5523.4	5339.1
27.5°	6861.2	6774.1	6616.7	6396.7	6319.6	6354.2	6404.5	6395.5	5842.8	5656.3
30°	7631.8	7530.1	7342.5	7024.3	6821.0	6729.4	6691.5	6665.8	6190.1	5991.3
32.5°	8247.1	8166.7	7982.4	7626.2	7331.4	7175.0	7048.8	6957.3	6553.0	6354.2
35°	8785.4	8710.5	8499.5	8110.9	7790.3	7624.0	7458.7	7263.2	6930.5	6729.4
37.5°	9276.7	9201.9	8912.7	8508.4	8185.7	8070.6	7923.2	7591.6	7309.0	7119.2
40°	9587.2	9570.4	9300.2	8842.3	8507.3	8450.3	8401.2	7972.4	7728.9	7552.5
42.5°	9666.5	9703.3	9488.9	9112.6	8793.2	8747.4	8862.4	8403.4	8200.2	8031.6
45°	9475.5	9581.6	9440.9	9185.2	8996.4	8971.9	9271.1	8874.7	8721.7	8567.6
47.5°	8992.0	9171.8	9113.7	9077.9	9051.1	9157.2	9630.7	9375.0	9312.5	9178.5
50°	8015.9	8356.5	8458.2	8683.7	8942.8	9301.3	9957.9	9921.1	10002.6	9867.5
52.5°	6328.5	6797.6	7387.2	7952.3	8610.0	9253.3	10317.5	10705.0	11049.0	10975.3
55°	5224.1	5435.2	5888.5	6924.9	7964.6	9051.1	10479.4	11338.2	12087.5	12021.7
57.5°	4375.4	4564.1	4843.3	5708.8	6988.5	8592.2	10580.0	11724.6	12798.9	12792.2
60°	3465.2	3665.1	3951.0	4564.1	5848.3	7799.3	10557.6	12164.6	13706.8	13762.7
62.5°	2437.8	2657.8	2975.0	3546.8	4683.6	6771.9	10102.0	12482.9	14775.5	14927.4
65°	1602.5	1747.7	1986.7	2480.3	3489.8	5450.8	9232.1	12524.2	15919.1	16175.9
67.5°	1123.4	1179.3	1320.0	1588.0	2300.5	4179.9	7846.2	12096.5	16681.8	16971.0
70°	876.6	904.6	976.0	1083.2	1445.1	2810.8	6012.5	10984.2	16518.8	16820.3
72.5°	757.1	783.9	810.8	824.2	969.3	1735.4	4072.7	9184.0	14983.2	15187.6
75°	686.8	693.5	715.8	711.4	739.3	1125.7	2350.7	6691.5	11821.8	11751.4
77.5°	577.4	586.3	623.1	617.6	656.6	769.4	1220.6	4318.4	7664.2	7186.2
80°	489.1	493.6	533.8	527.1	570.7	557.3	623.1	2201.1	3250.8	2753.9
82.5°	169.7	209.9	407.6	419.9	435.5	337.3	359.6	897.9	992.8	760.5
85°	82.6	88.2	207.7	294.8	293.7	169.7	175.3	320.5	312.7	245.7
87.5°	13.4	16.8	24.6	115.0	91.6	44.7	60.3	62.5	64.8	55.8
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°
2538.3	0°	2538.3	2538.3	2538.3	2538.3	2538.3	2538.3	2538.3	2538.3	2538.3	2538.3
2628.8	2.5°	2566.3	2510.4	2393.2	2284.8	2200.0	2118.4	2072.7	2033.6	2011.2	2006.8
2751.6	5°	2635.5	2520.5	2307.2	2127.4	2010.1	1923.0	1877.2	1848.2	1833.7	1824.7
2916.9	7.5°	2734.9	2566.3	2262.5	2058.1	1935.3	1872.8	1849.3	1844.8	1843.7	1844.8
3116.8	10°	2872.2	2641.1	2258.0	2041.4	1938.7	1904.0	1902.9	1904.0	1908.5	1909.6
3334.6	12.5°	3020.8	2718.1	2275.9	2055.9	1981.1	1962.1	1958.8	1957.6	1961.0	1963.2
3554.6	15°	3182.7	2819.8	2306.1	2087.2	2028.0	2007.9	2004.5	1997.8	1996.7	1995.6
3785.7	17.5°	3349.1	2920.3	2339.6	2120.7	2058.1	2030.2	2017.9	2002.3	1990.0	1986.7
4024.7	20°	3517.7	3019.7	2363.0	2137.4	2060.4	2021.3	1996.7	1969.9	1948.7	1936.4
4265.9	22.5°	3697.5	3123.5	2377.5	2133.0	2040.3	1986.7	1942.0	1910.7	1878.3	1857.1
4509.4	25°	3872.8	3214.0	2376.4	2109.5	2001.2	1933.1	1876.1	1835.9	1791.2	1768.9
4760.6	27.5°	4041.5	3295.5	2348.5	2068.2	1945.4	1869.4	1801.3	1753.3	1709.7	1688.5
5014.1	30°	4215.7	3363.6	2304.9	2007.9	1879.5	1795.7	1720.9	1679.6	1640.5	1620.4
5282.2	32.5°	4388.8	3426.1	2243.5	1933.1	1803.5	1723.1	1649.4	1611.4	1588.0	1588.0
5570.3	35°	4571.9	3469.7	2162.0	1846.0	1723.1	1646.1	1588.0	1565.7	1563.4	1550.0
5875.1	37.5°	4765.1	3497.6	2062.6	1756.6	1643.8	1571.2	1553.4	1526.6	1504.2	1475.2
6210.2	40°	4968.4	3525.5	1943.1	1663.9	1560.1	1519.9	1512.1	1476.3	1412.7	1341.2
6589.9	42.5°	5215.2	3544.5	1819.2	1571.2	1471.9	1458.5	1469.6	1408.2	1306.6	1253.0
7047.7	45°	5501.0	3575.8	1705.3	1479.7	1381.4	1381.4	1428.3	1347.9	1264.1	1230.6
7570.4	47.5°	5871.8	3648.4	1599.2	1379.2	1297.6	1320.0	1336.7	1275.3	1228.4	1187.1
8206.9	50°	6407.8	3822.6	1489.7	1277.5	1234.0	1278.7	1255.2	1219.5	1164.8	1131.3
9218.7	52.5°	7073.4	3925.3	1392.6	1186.0	1179.3	1223.9	1190.4	1156.9	1115.6	1070.9
9985.9	55°	7526.8	3944.3	1311.0	1119.0	1142.4	1138.0	1125.7	1095.5	1073.2	1014.0
10743.0	57.5°	8033.8	3982.3	1244.0	1078.8	1119.0	1069.8	1065.4	1039.7	1010.6	970.4
11666.5	60°	8640.2	4041.5	1186.0	1063.1	1098.9	1025.2	1002.8	992.8	963.7	943.6
12777.7	62.5°	9301.3	4095.1	1126.8	1065.4	1075.4	981.6	948.1	944.8	926.9	920.2
13820.7	65°	9752.5	3948.8	1053.1	1063.1	1038.6	936.9	894.5	893.4	878.9	876.6
14273.0	67.5°	9595.0	3485.3	953.7	1031.9	1000.6	892.3	845.4	840.9	821.9	823.0
13800.6	70°	8806.6	2824.2	816.3	954.8	953.7	852.1	794.0	779.5	753.8	758.3
11999.3	72.5°	7328.0	2092.8	632.1	826.4	878.9	815.2	734.8	711.4	679.0	683.4
8857.9	75°	5292.2	1422.7	460.1	628.7	765.0	771.7	676.7	636.5	597.5	604.2
4930.4	77.5°	2708.1	806.3	338.4	433.3	600.8	701.3	624.3	570.7	561.7	624.3
1421.6	80°	883.3	404.3	234.5	303.8	394.2	574.0	547.2	485.8	483.5	498.1
298.2	82.5°	263.5	170.9	150.8	199.9	217.8	440.0	472.4	367.4	316.0	332.8
99.4	85°	90.5	82.6	86.0	99.4	103.9	258.0	330.6	243.4	230.0	253.5
22.3	87.5°	21.2	29.0	24.6	22.3	22.3	62.5	128.4	101.6	140.7	93.8
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>
2538.3
2006.8
1823.6
1848.2
1910.7
1964.3
1994.5
1990.0
1940.9
1858.2
1768.9
1687.4
1619.3
1589.1
1546.7
1470.7
1331.1
1254.1
1236.2
1186.0
1127.9
1062.0
1015.1
957.0
949.2
920.2
875.5
823.0
762.7
682.3
606.4
615.3
427.7
344.0
250.1
90.5
0.0

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