

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: P950157

Luminaire Tested: **GALN-SB4C-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950157
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-SB4C-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22153 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

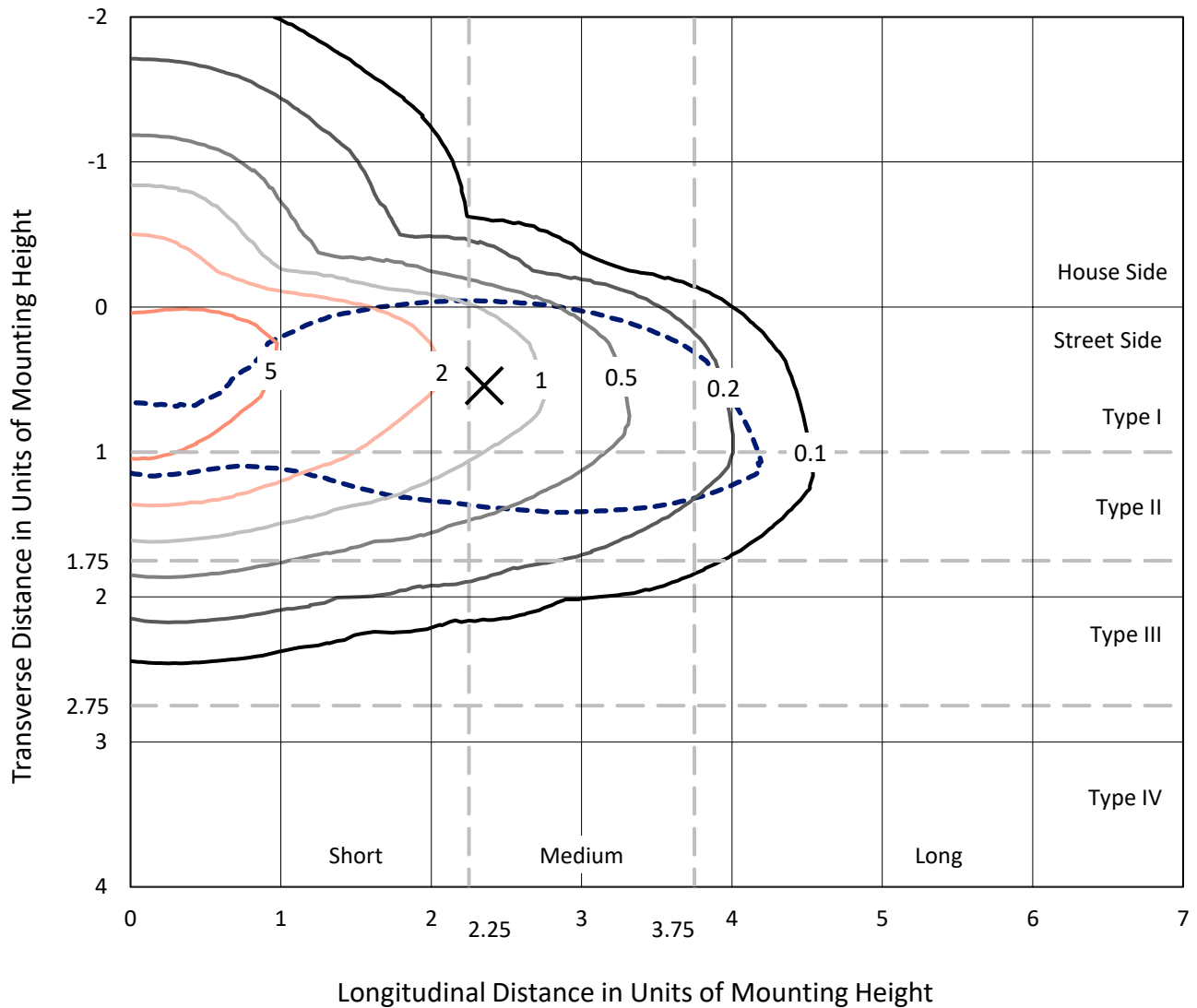
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

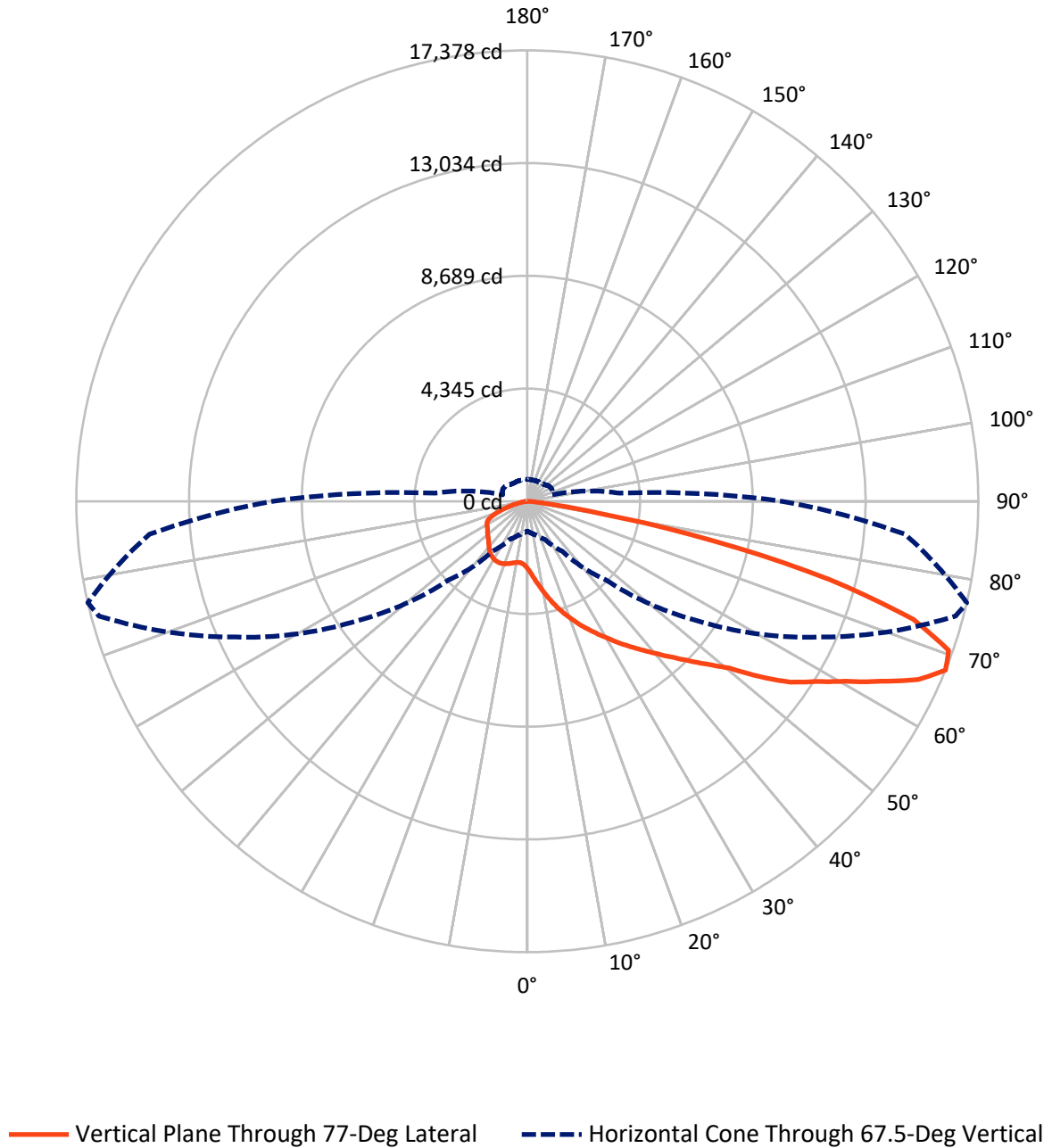
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	4190.5	0.0	4190.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	17962.5	0.0	17962.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	22153.0	0.0	22153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.6	1.3
10°-20°	1000.9	4.5
20°-30°	1889.8	8.5
30°-40°	3044.5	13.7
40°-50°	4164.3	18.8
50°-60°	4697.3	21.2
60°-70°	4384.4	19.8
70°-80°	2403.4	10.8
80°-90°	289.9	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°	22153.0	100.0
0°-180°	22153.0	100.0

Coefficient of Utilization



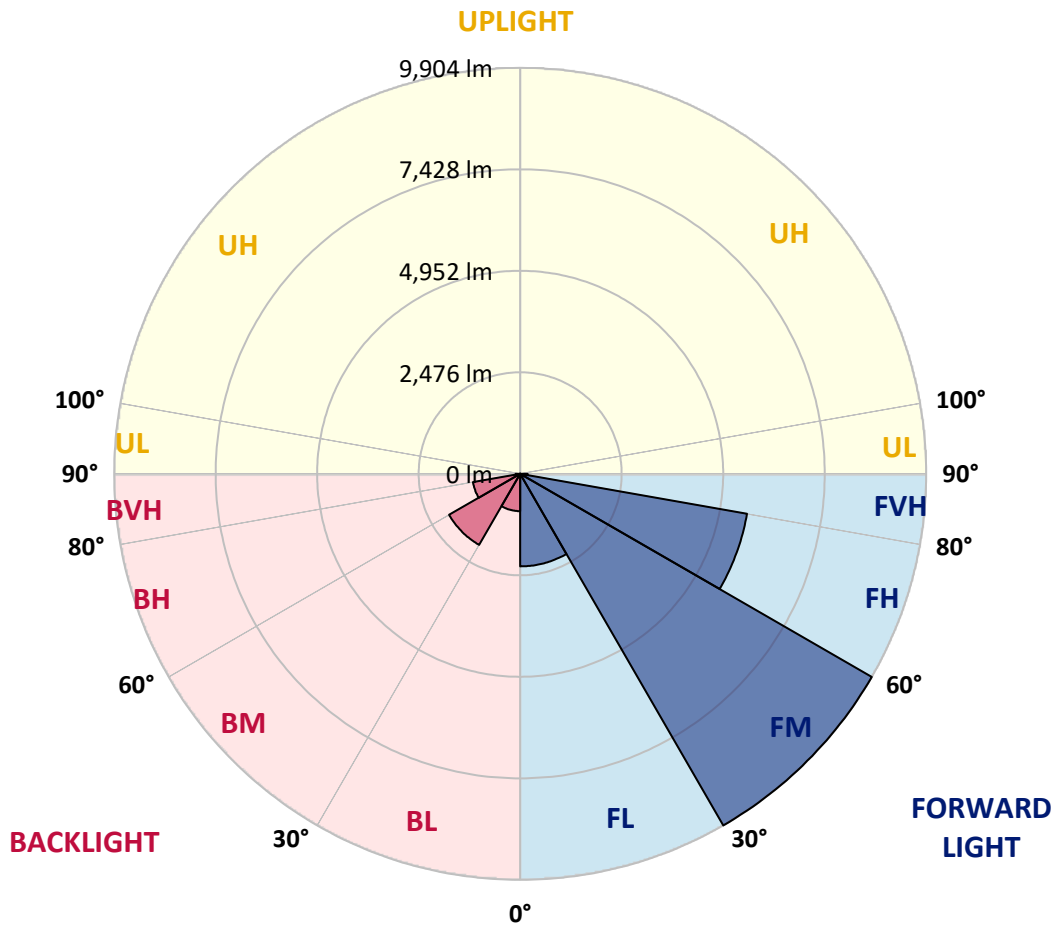
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2258.2	10.2			
FM (30°-60°)	9904.4	44.7			
FH (60°-80°)	5618.7	25.4			G3/7500
FVH (80°-90°)	181.3	0.8			G2/225
BL (0°-30°)	911.1	4.1	B2/1000		
BM (30°-60°)	2001.7	9.0	B2/2500		
BH (60°-80°)	1169.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	108.6	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°	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2
2.5°	3254.5	3277.3	3248.8	3248.8	3152.7	3102.4	3006.3	2933.1	2801.6	2778.8
5°	3846.8	3875.4	3835.4	3818.2	3705.0	3601.0	3439.7	3280.8	3046.4	3022.3
7.5°	4305.4	4342.0	4306.5	4288.2	4187.6	4071.0	3882.3	3660.4	3329.9	3283.1
10°	4679.3	4685.0	4673.6	4680.5	4601.5	4505.5	4312.2	4053.8	3641.0	3577.0
12.5°	4890.9	4917.2	4940.0	4981.2	4967.5	4908.0	4734.2	4425.4	3970.3	3888.0
15°	4990.3	5036.1	5087.5	5182.5	5259.1	5273.9	5141.3	4824.5	4305.4	4205.9
17.5°	5025.8	5069.3	5150.4	5287.7	5452.3	5563.3	5503.8	5212.2	4637.0	4522.6
20°	5205.3	5217.9	5267.1	5397.4	5575.8	5759.9	5804.5	5585.0	4965.2	4836.0
22.5°	5589.6	5564.4	5578.1	5637.6	5765.7	5944.0	6045.8	5914.3	5302.5	5153.9
25°	6224.2	6151.0	6077.8	6009.2	6074.4	6175.0	6290.5	6243.7	5655.9	5467.2
27.5°	7025.8	6936.6	6775.4	6550.1	6471.2	6506.7	6558.1	6549.0	5982.9	5792.0
30°	7814.9	7710.8	7518.7	7192.8	6984.7	6890.9	6852.0	6825.7	6338.6	6135.0
32.5°	8444.9	8362.6	8173.9	7809.1	7507.2	7347.2	7217.9	7124.2	6710.2	6506.7
35°	8996.1	8919.5	8703.4	8305.4	7977.2	7806.9	7637.6	7437.5	7096.7	6890.9
37.5°	9499.3	9422.7	9126.5	8712.5	8382.0	8264.3	8113.3	7773.7	7484.4	7290.0
40°	9817.2	9800.0	9523.3	9054.4	8711.4	8653.1	8602.7	8163.6	7914.3	7733.7
42.5°	9898.4	9936.1	9716.5	9331.2	9004.1	8957.2	9075.0	8605.0	8396.9	8224.2
45°	9702.8	9811.5	9667.4	9405.5	9212.2	9187.1	9493.6	9087.6	8930.9	8773.1
47.5°	9207.7	9391.8	9332.3	9295.7	9268.3	9376.9	9861.8	9599.9	9535.9	9398.6
50°	8208.2	8557.0	8661.1	8892.1	9157.4	9524.4	10196.8	10159.1	10242.6	10104.2
52.5°	6480.4	6960.6	7564.4	8143.1	8816.6	9475.3	10565.0	10961.8	11314.0	11238.6
55°	5349.4	5565.5	6029.8	7091.0	8155.6	9268.3	10730.9	11610.2	12377.5	12310.1
57.5°	4480.3	4673.6	4959.5	5845.7	7156.2	8798.3	10833.8	12005.9	13106.0	13099.1
60°	3548.4	3753.1	4045.8	4673.6	5988.6	7986.4	10810.9	12456.4	14035.6	14092.8
62.5°	2496.3	2721.6	3046.4	3631.8	4795.9	6934.3	10344.3	12782.3	15130.0	15285.5
65°	1641.0	1789.6	2034.3	2539.8	3573.5	5581.6	9453.5	12824.6	16301.0	16564.0
67.5°	1150.4	1207.6	1351.6	1626.1	2355.7	4280.2	8034.4	12386.7	17082.0	17378.2
70°	897.7	926.3	999.4	1109.2	1479.7	2878.3	6156.7	11247.7	16915.0	17223.8
72.5°	775.3	802.8	830.2	843.9	992.6	1777.0	4170.4	9404.4	15342.7	15552.0
75°	703.3	710.1	733.0	728.4	757.0	1152.7	2407.1	6852.0	12105.4	12033.3
77.5°	591.2	600.4	638.1	632.4	672.4	787.9	1249.9	4422.0	7848.0	7358.6
80°	500.9	505.4	546.6	539.7	584.3	570.6	638.1	2253.9	3328.8	2819.9
82.5°	173.8	215.0	417.4	430.0	446.0	345.3	368.2	919.4	1016.6	778.7
85°	84.6	90.3	212.7	301.9	300.7	173.8	179.5	328.2	320.2	251.6
87.5°	13.7	17.2	25.2	117.8	93.8	45.7	61.8	64.0	66.3	57.2
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°
2599.2	0°	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2
2691.9	2.5°	2627.8	2570.6	2450.6	2339.7	2252.7	2169.3	2122.4	2082.4	2059.5	2054.9
2817.6	5°	2698.7	2580.9	2362.5	2178.4	2058.3	1969.2	1922.3	1892.5	1877.7	1868.5
2986.9	7.5°	2800.5	2627.8	2316.8	2107.5	1981.7	1917.7	1893.7	1889.1	1888.0	1889.1
3191.6	10°	2941.1	2704.4	2312.2	2090.4	1985.2	1949.7	1948.6	1949.7	1954.3	1955.4
3414.6	12.5°	3093.2	2783.3	2330.5	2105.2	2028.6	2009.2	2005.7	2004.6	2008.0	2010.3
3639.8	15°	3259.0	2887.4	2361.4	2137.3	2076.6	2056.1	2052.6	2045.8	2044.6	2043.5
3876.6	17.5°	3429.4	2990.3	2395.7	2171.6	2107.5	2078.9	2066.4	2050.3	2037.8	2034.3
4121.3	20°	3602.1	3092.1	2419.7	2188.7	2109.8	2069.8	2044.6	2017.2	1995.5	1982.9
4368.3	22.5°	3786.2	3198.4	2434.6	2184.1	2089.2	2034.3	1988.6	1956.6	1923.4	1901.7
4617.6	25°	3965.7	3291.1	2433.4	2160.1	2049.2	1979.4	1921.1	1880.0	1834.2	1811.3
4874.9	27.5°	4138.4	3374.5	2404.8	2117.8	1992.0	1914.3	1844.5	1795.3	1750.7	1729.0
5134.4	30°	4316.8	3444.3	2360.2	2056.1	1924.6	1838.8	1762.2	1719.9	1679.8	1659.3
5408.9	32.5°	4494.1	3508.3	2297.3	1979.4	1846.8	1764.5	1689.0	1650.1	1626.1	1626.1
5703.9	35°	4681.6	3552.9	2213.9	1890.2	1764.5	1685.6	1626.1	1603.2	1600.9	1587.2
6016.1	37.5°	4879.4	3581.5	2112.1	1798.8	1683.3	1608.9	1590.6	1563.2	1540.3	1510.6
6359.1	40°	5087.5	3610.1	1989.7	1703.9	1597.5	1556.3	1548.3	1511.7	1446.6	1373.4
6747.9	42.5°	5340.3	3629.6	1862.8	1608.9	1507.2	1493.4	1504.9	1442.0	1337.9	1283.0
7216.8	45°	5633.0	3661.6	1746.2	1515.2	1414.5	1414.5	1462.6	1380.2	1294.5	1260.2
7752.0	47.5°	6012.7	3735.9	1637.5	1412.3	1328.8	1351.6	1368.8	1305.9	1257.9	1215.6
8403.8	50°	6561.6	3914.3	1525.5	1308.2	1263.6	1309.3	1285.3	1248.7	1192.7	1158.4
9439.8	52.5°	7243.1	4019.5	1426.0	1214.4	1207.6	1253.3	1219.0	1184.7	1142.4	1096.6
10225.4	55°	7707.4	4038.9	1342.5	1145.8	1169.8	1165.3	1152.7	1121.8	1098.9	1038.3
11000.7	57.5°	8226.5	4077.8	1273.9	1104.6	1145.8	1095.5	1090.9	1064.6	1034.9	993.7
11946.4	60°	8847.5	4138.4	1214.4	1088.6	1125.2	1049.8	1026.9	1016.6	986.9	966.3
13084.2	62.5°	9524.4	4193.3	1153.8	1090.9	1101.2	1005.2	970.9	967.4	949.1	942.3
14152.3	65°	9986.4	4043.5	1078.3	1088.6	1063.5	959.4	916.0	914.8	900.0	897.7
14615.4	67.5°	9825.2	3568.9	976.6	1056.6	1024.6	913.7	865.6	861.1	841.6	842.8
14131.7	70°	9017.8	2892.0	835.9	977.7	976.6	872.5	813.0	798.2	771.9	776.5
12287.2	72.5°	7503.8	2143.0	647.2	846.2	900.0	834.8	752.4	728.4	695.3	699.8
9070.5	75°	5419.2	1456.9	471.1	643.8	783.3	790.2	693.0	651.8	611.8	618.6
5048.7	77.5°	2773.1	825.6	346.5	443.7	615.2	718.1	639.2	584.3	575.2	639.2
1455.7	80°	904.5	414.0	240.1	311.0	403.7	587.8	560.3	497.4	495.1	510.0
305.3	82.5°	269.9	175.0	154.4	204.7	223.0	450.5	483.7	376.2	323.6	340.8
101.8	85°	92.6	84.6	88.1	101.8	106.3	264.2	338.5	249.3	235.6	259.6
22.9	87.5°	21.7	29.7	25.2	22.9	22.9	64.0	131.5	104.1	144.1	96.1
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

<u>180°</u>
2599.2
2054.9
1867.4
1892.5
1956.6
2011.5
2042.3
2037.8
1987.4
1902.8
1811.3
1727.9
1658.1
1627.2
1583.8
1506.0
1363.1
1284.2
1265.9
1214.4
1155.0
1087.5
1039.5
980.0
972.0
942.3
896.5
842.8
781.0
698.7
620.9
630.1
438.0
352.2
256.1
92.6
0.0

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