

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: P943887

Luminaire Tested: **GALN-SB8C-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52695 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

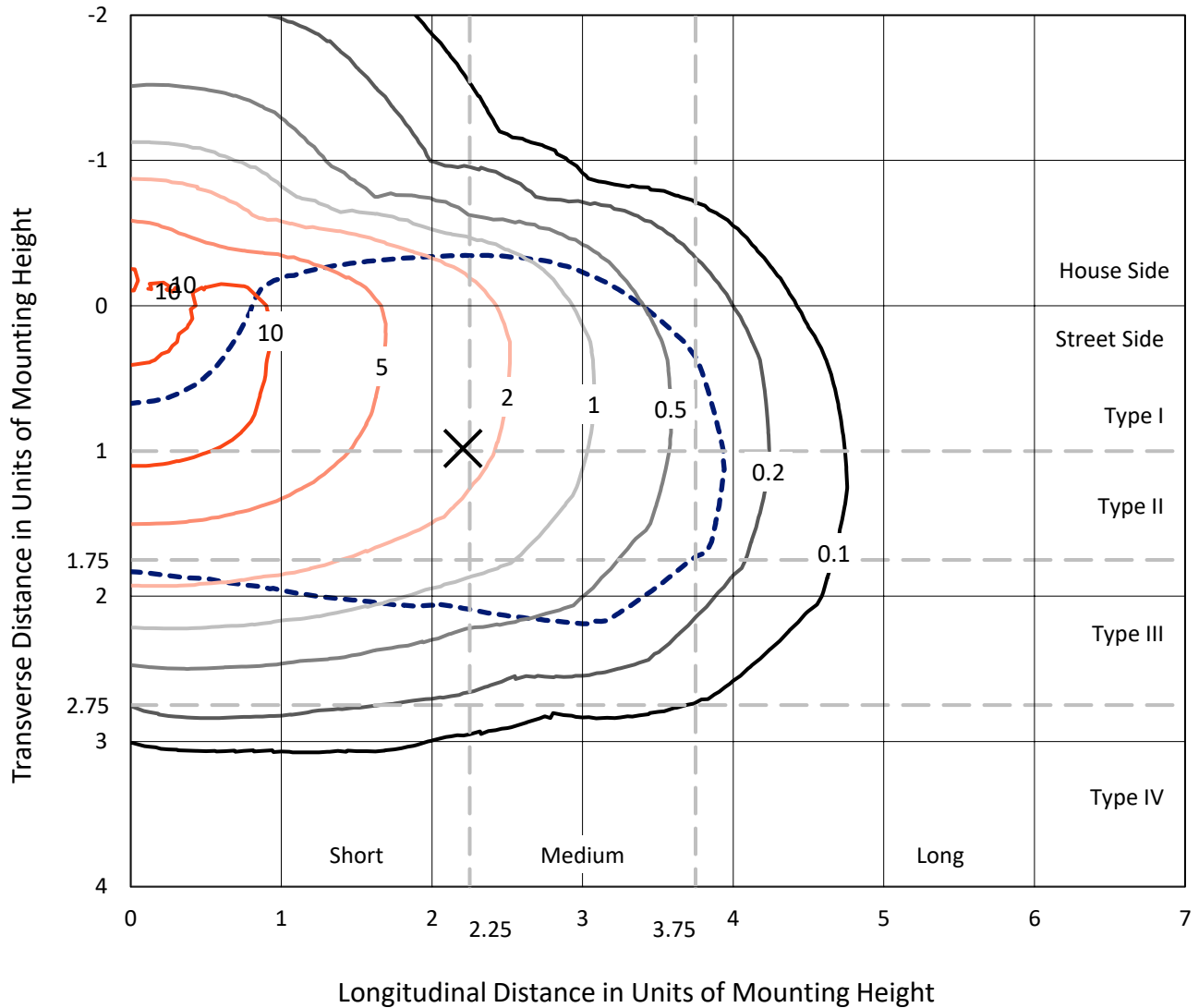
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

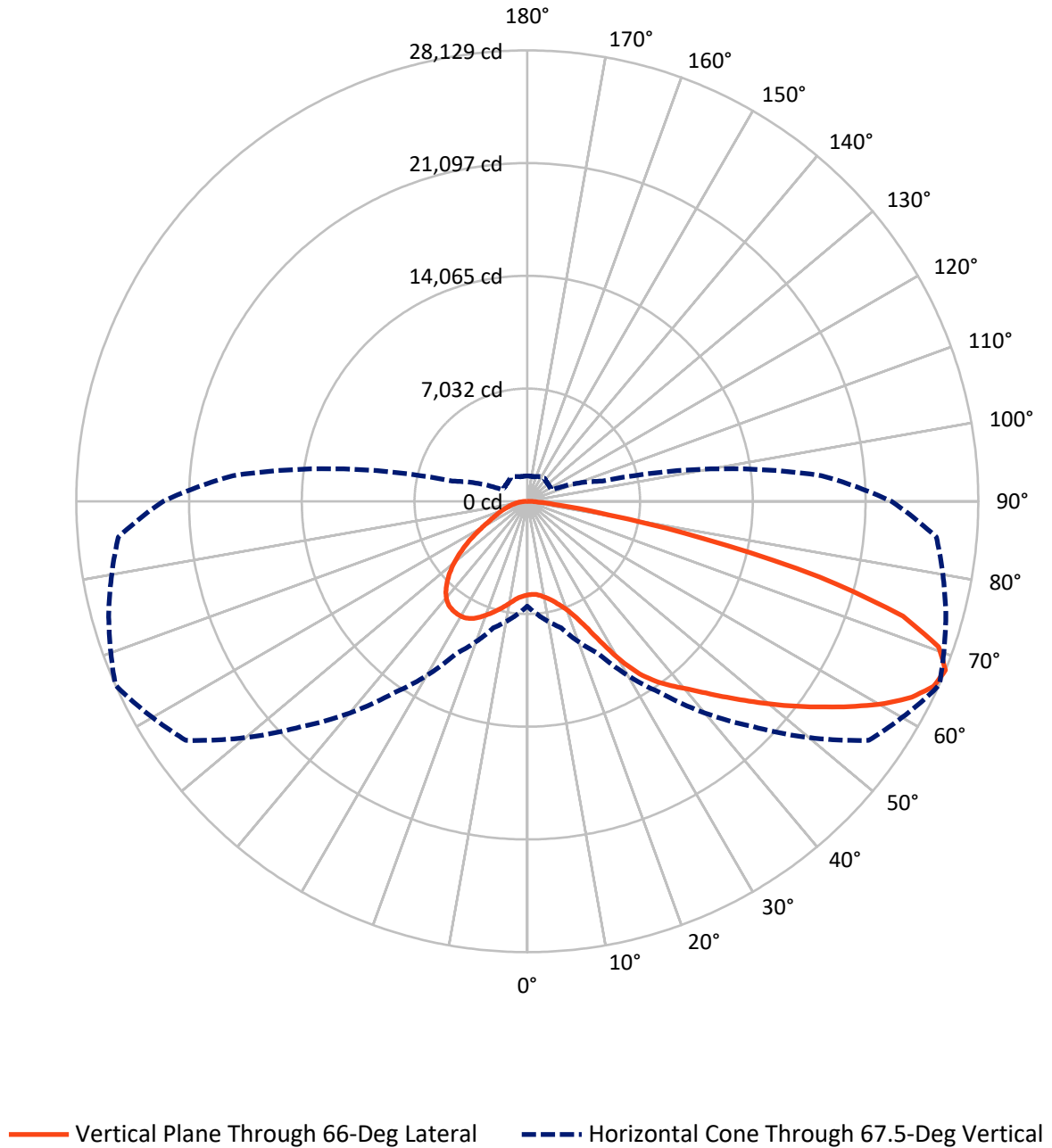
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13102.5	0.0	13102.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	39592.5	0.0	39592.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	52695.0	0.0	52695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.5	1.1
10°-20°	1914.5	3.6
20°-30°	3690.1	7.0
30°-40°	6470.0	12.3
40°-50°	9618.8	18.3
50°-60°	12192.8	23.1
60°-70°	11930.3	22.6
70°-80°	5690.9	10.8
80°-90°	608.2	1.2
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°	52695.0	100.0
0°-180°	52695.0	100.0

Coefficient of Utilization



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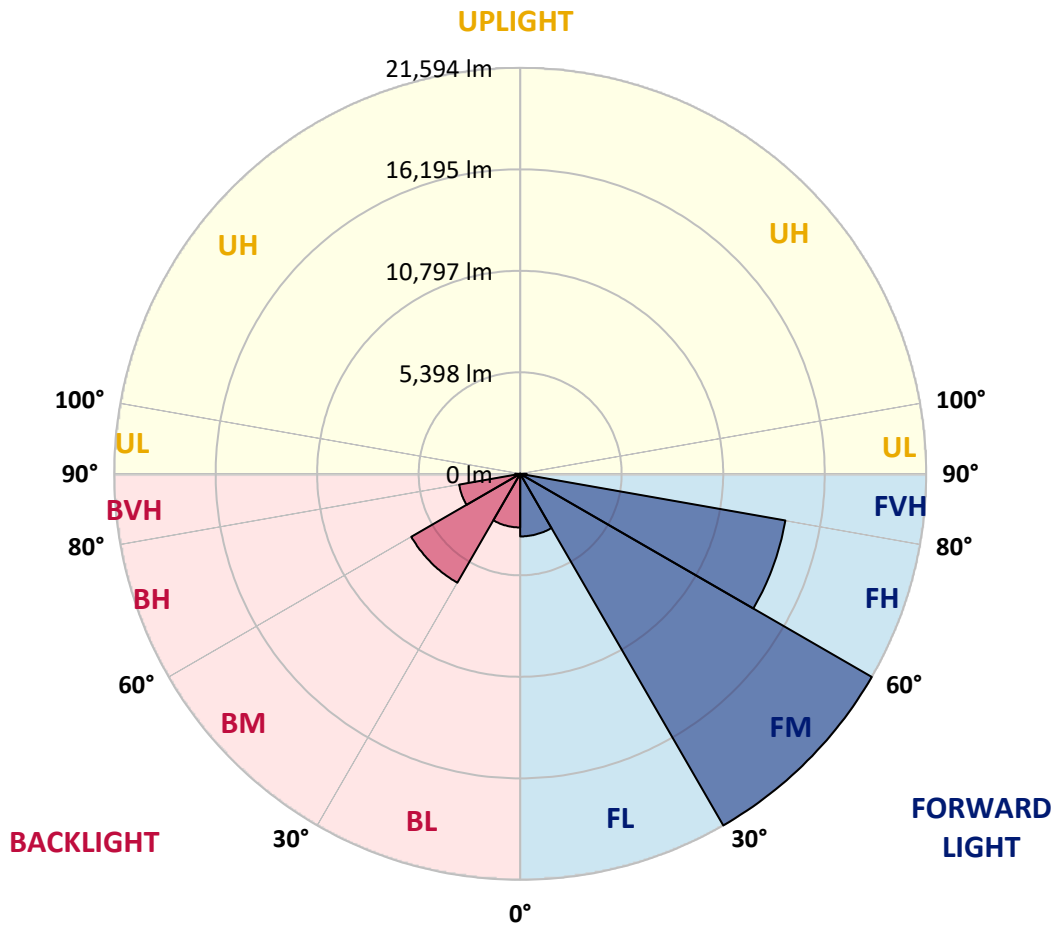
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3329.8	6.3			
FM (30°-60°)	21594.0	41.0			
FH (60°-80°)	14323.9	27.2			G5
FVH (80°-90°)	344.8	0.7			G3/500
BL (0°-30°)	2854.2	5.4	B4/5000		
BM (30°-60°)	6687.6	12.7	B4/8500		
BH (60°-80°)	3297.3	6.3	B4/5000		G4/5000
BVH (80°-90°)	263.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6
2.5°	5783.7	5816.9	5808.6	5794.7	5792.0	5797.5	5805.8	5814.1	5811.3	5825.2
5°	5767.1	5800.3	5797.5	5797.5	5808.6	5830.7	5844.6	5858.4	5844.6	5861.2
7.5°	5778.1	5803.0	5814.1	5825.2	5852.9	5894.4	5927.6	5958.1	5941.5	5960.9
10°	5919.3	5938.7	5949.8	5949.8	5969.2	6016.2	6049.5	6104.8	6091.0	6121.4
12.5°	6176.8	6196.2	6196.2	6185.1	6199.0	6229.4	6240.5	6301.4	6276.5	6326.3
15°	6492.4	6531.2	6500.7	6481.4	6486.9	6517.3	6514.6	6561.6	6536.7	6578.3
17.5°	6841.3	6891.1	6841.3	6838.5	6827.4	6860.7	6863.4	6905.0	6860.7	6891.1
20°	7253.8	7323.0	7281.5	7295.3	7270.4	7284.3	7298.1	7359.0	7289.8	7311.9
22.5°	7835.2	7918.3	7874.0	7926.6	7910.0	7898.9	7896.1	8004.1	7896.1	7904.4
25°	8682.4	8782.1	8704.6	8776.5	8776.5	8812.5	8854.1	8992.5	8812.5	8759.9
27.5°	9933.8	10033.5	9881.2	9925.5	9911.7	10000.3	9956.0	10299.3	10105.5	10019.7
30°	11440.0	11617.2	11329.2	11318.1	11304.3	11445.5	11509.2	11736.2	11539.6	11453.8
32.5°	13067.9	13253.4	12910.1	12810.4	12757.8	12843.7	12791.1	12973.8	12838.1	12705.2
35°	14790.0	14972.7	14646.0	14452.2	14241.8	14061.9	13873.6	13920.7	13793.3	13591.2
37.5°	16418.0	16753.0	16406.9	16199.2	15811.6	15460.0	14934.0	14715.3	14596.2	14410.7
40°	18076.4	18267.4	18004.4	17827.2	17406.4	16855.4	16013.7	15551.4	15390.8	15210.8
42.5°	19297.3	19480.1	19338.9	19217.0	18887.6	18248.0	17160.0	16581.3	16348.7	16146.6
45°	20266.4	20402.0	20313.4	20357.7	20216.5	19596.3	18347.7	17686.0	17445.1	17198.7
47.5°	20656.7	20800.7	20941.9	21204.9	21445.8	20989.0	19624.0	18882.0	18627.3	18375.4
50°	20612.4	20759.2	21168.9	21728.2	22475.7	22323.4	20969.6	20155.6	19920.3	19632.3
52.5°	20258.0	20424.2	20950.2	21880.5	23071.0	23322.9	22340.1	21470.7	21249.2	20905.9
55°	19327.8	19427.5	20216.5	21534.4	23212.2	24020.6	23682.8	22871.6	22650.1	22171.2
57.5°	17602.9	17746.9	18895.9	20601.4	22857.8	24494.0	24862.3	24344.5	24131.4	23442.0
60°	15352.0	15581.8	16896.9	19034.3	21955.2	24491.3	25933.7	25792.5	25615.3	24693.4
62.5°	12804.9	13070.7	14336.0	16819.4	20377.1	23796.4	26603.7	27005.2	26913.8	25847.9
65°	9834.2	10016.9	11276.6	13953.9	17921.3	22304.1	26681.3	27833.0	27849.6	26725.6
67.5°	6547.8	7073.8	8167.5	10470.9	14632.2	19864.9	26000.2	27968.7	28129.3	27027.3
70°	3195.0	3887.2	4958.6	6805.3	10470.9	16124.5	24220.0	26855.7	27212.8	26146.9
72.5°	1326.2	1550.4	2134.6	3358.3	6010.7	10880.7	20642.9	23837.9	24499.6	23167.9
75°	894.3	969.0	1221.0	1722.1	2738.2	5365.6	14886.9	17774.6	18840.5	17497.7
77.5°	689.4	736.5	888.7	1204.4	1628.0	2029.4	7968.1	10711.8	11262.8	10426.6
80°	542.7	578.6	664.5	877.7	1154.5	1085.3	2716.0	4853.4	5171.8	4338.4
82.5°	470.7	484.5	476.2	595.3	766.9	634.0	891.5	1791.3	1976.8	1434.1
85°	340.5	379.3	395.9	368.2	407.0	321.2	365.5	634.0	697.7	622.9
87.5°	138.4	204.9	251.9	238.1	149.5	91.4	113.5	185.5	213.2	232.6
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°
5844.6	0°	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6
5847.3	2.5°	5850.1	5869.5	5883.3	5899.9	5911.0	5927.6	5960.9	5980.2	5983.0	5996.8
5891.6	5°	5902.7	5930.4	5960.9	6005.2	6055.0	6096.5	6160.2	6204.5	6221.1	6234.9
5999.6	7.5°	6016.2	6055.0	6110.4	6187.9	6259.9	6315.2	6392.8	6445.4	6498.0	6517.3
6171.3	10°	6185.1	6240.5	6320.8	6426.0	6503.5	6575.5	6655.8	6700.1	6752.7	6774.8
6376.1	12.5°	6395.5	6453.7	6558.9	6705.6	6777.6	6827.4	6855.1	6844.0	6855.1	6874.5
6622.6	15°	6636.4	6700.1	6819.1	6976.9	7026.8	6982.5	6921.6	6866.2	6857.9	6863.4
6921.6	17.5°	6921.6	6968.6	7107.1	7240.0	7204.0	7021.2	6888.3	6799.7	6755.5	6741.6
7303.6	20°	7320.3	7320.3	7433.8	7516.8	7276.0	6965.9	6758.2	6614.3	6522.9	6484.1
7824.1	22.5°	7804.8	7760.5	7832.4	7774.3	7262.1	6810.8	6522.9	6273.7	6135.3	6079.9
8552.3	25°	8419.4	8366.8	8347.4	7987.5	7162.4	6564.4	6096.5	5794.7	5672.9	5642.5
9601.6	27.5°	9346.9	9214.0	8962.0	8103.8	6979.7	6176.8	5598.2	5318.5	5249.3	5252.1
10949.9	30°	10581.7	10315.9	9698.5	8123.2	6680.7	5628.6	5088.7	4889.4	4856.2	4870.0
12082.3	32.5°	11725.1	11473.2	10451.6	8034.6	6221.1	5091.5	4631.9	4499.0	4449.2	4465.8
12946.1	35°	12622.2	12553.0	11149.3	7910.0	5656.3	4587.6	4222.2	4108.6	4011.7	3989.6
13760.1	37.5°	13469.4	13441.7	11672.5	7735.5	5097.0	4230.5	3892.7	3743.2	3602.0	3524.5
14659.9	40°	14399.6	14371.9	12015.8	7467.0	4601.5	3920.4	3596.4	3399.9	3225.5	3084.3
15678.7	42.5°	15446.2	15282.8	12179.2	7082.1	4180.6	3657.4	3355.6	3089.8	2860.0	2729.9
16830.5	45°	16589.6	16221.4	12176.4	6592.1	3826.2	3416.5	3098.1	2721.6	2508.4	2386.6
18012.7	47.5°	17802.3	17118.4	12026.9	6049.5	3482.9	3150.7	2699.4	2411.5	2270.3	2195.5
19297.3	50°	19053.7	17957.3	11772.2	5426.5	3131.3	2848.9	2450.2	2253.7	2145.7	2076.5
20570.9	52.5°	20230.4	18718.7	11464.9	4720.5	2774.2	2555.4	2339.5	2187.2	2073.7	1996.2
21805.7	55°	21324.0	19374.9	11030.2	3997.9	2483.5	2358.9	2286.9	2159.5	2029.4	1938.0
23059.9	57.5°	22295.8	19801.2	10279.9	3319.6	2275.8	2223.2	2231.5	2112.5	1963.0	1885.4
24294.7	60°	23104.2	20114.1	9169.7	2691.1	2106.9	2090.3	2145.7	2023.9	1849.4	1760.8
25338.5	62.5°	23588.7	20108.5	7807.5	2203.8	1963.0	1968.5	2032.2	1913.1	1735.9	1652.9
25883.9	65°	23547.2	19615.7	6312.5	1885.4	1824.5	1830.1	1913.1	1791.3	1641.8	1592.0
25609.8	67.5°	22713.8	18414.1	4842.3	1677.8	1672.3	1697.2	1794.1	1708.2	1583.7	1578.1
23976.3	70°	20457.4	15919.6	3488.5	1511.7	1514.4	1550.4	1677.8	1655.6	1553.2	1564.3
20158.4	72.5°	16404.1	12137.7	2342.3	1337.2	1340.0	1398.2	1567.0	1614.1	1522.7	1669.5
14302.7	75°	10925.0	7569.4	1506.1	1151.7	1154.5	1229.3	1470.1	1533.8	1439.7	1663.9
7442.1	77.5°	5249.3	3402.6	1090.8	969.0	969.0	1038.2	1270.8	1373.2	1226.5	1292.9
2392.1	80°	1813.5	1279.1	858.3	780.8	764.1	811.2	1071.5	1190.5	1057.6	974.6
780.8	82.5°	714.3	664.5	689.4	606.3	551.0	581.4	833.4	982.9	778.0	703.2
440.2	85°	409.8	431.9	487.3	401.5	318.4	357.2	611.9	706.0	586.9	517.7
144.0	87.5°	110.7	152.3	224.3	207.6	144.0	152.3	290.7	390.4	337.8	260.3
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>
5844.6
5994.1
6232.2
6520.1
6785.9
6880.0
6882.8
6761.0
6475.8
6071.6
5648.0
5260.4
4917.1
4487.9
4006.2
3527.2
3098.1
2738.2
2381.0
2178.9
2051.6
1963.0
1902.0
1835.6
1722.1
1628.0
1589.2
1586.4
1561.5
1691.6
1677.8
1185.0
913.6
700.5
528.8
268.6
0.0

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