

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: P943378

Luminaire Tested: **GALN-SB7D-827-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943378  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

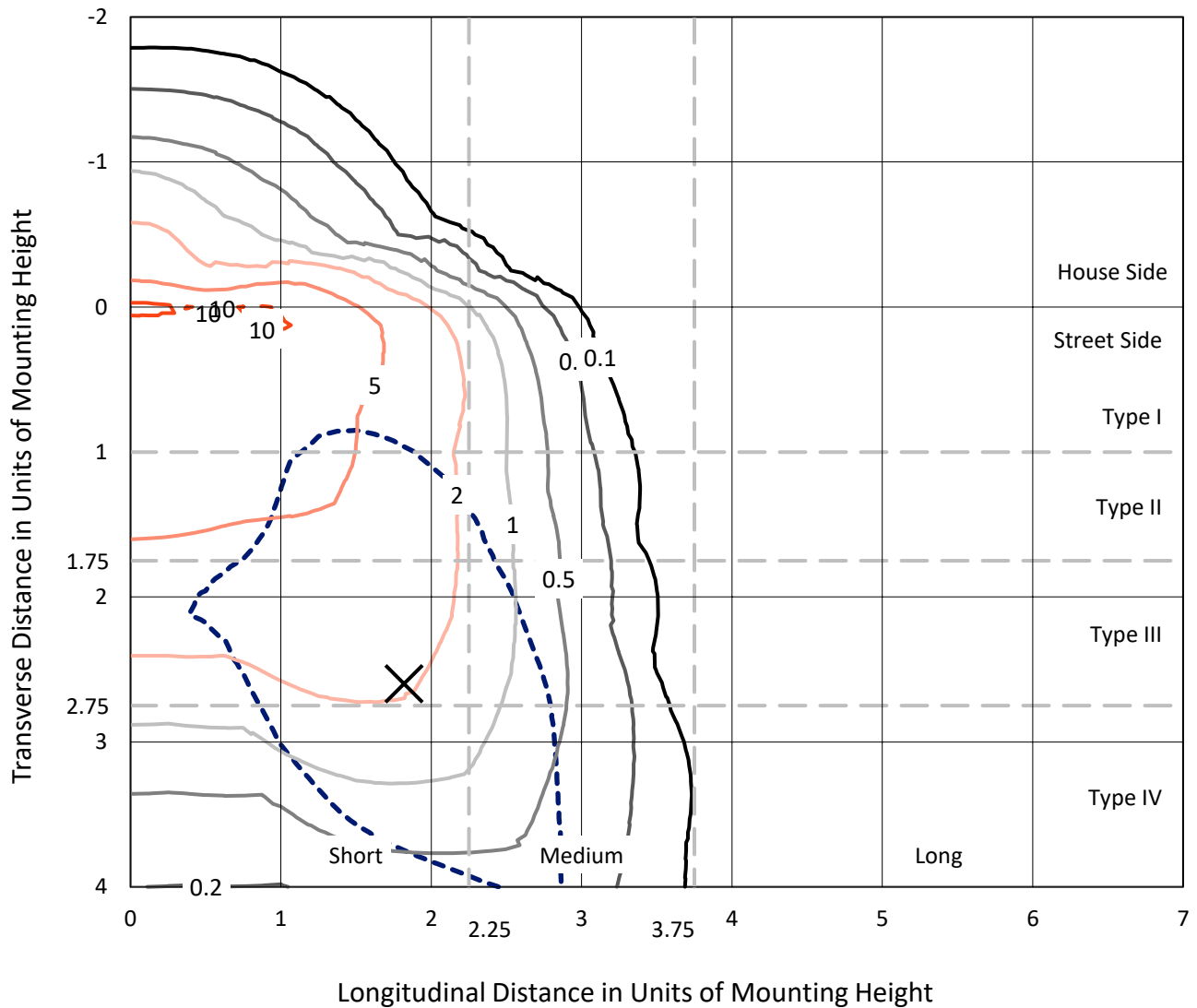
Lumens per Lamp: N/A  
Luminaire Lumens: 47647 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

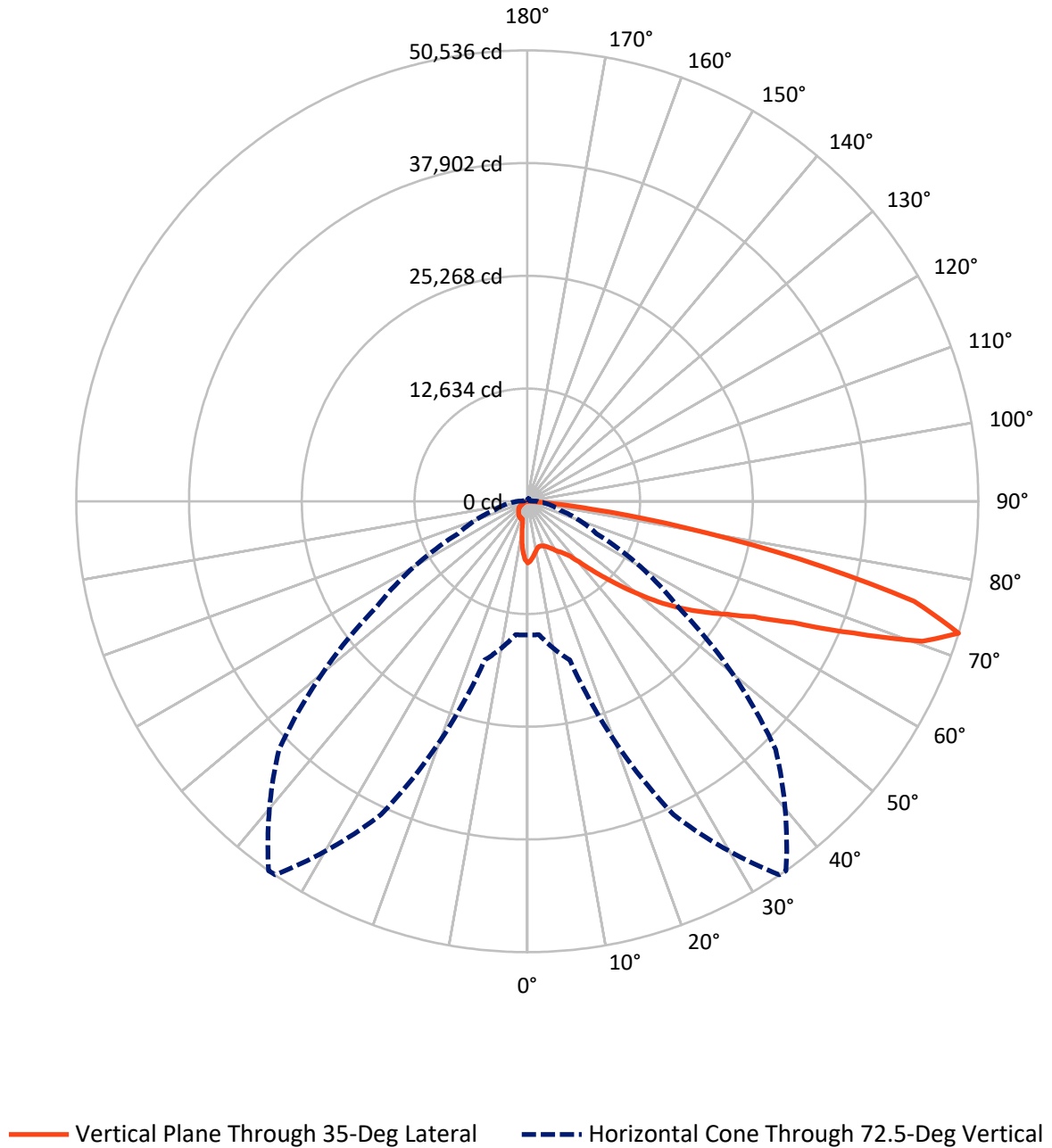
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5362.5	0.0	5362.5
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	42284.6	0.0	42284.6
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	47647.0	0.0	47647.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	567.5	1.2
10°-20°	1327.5	2.8
20°-30°	2156.5	4.5
30°-40°	3598.1	7.6
40°-50°	6807.7	14.3
50°-60°	10817.4	22.7
60°-70°	13381.9	28.1
70°-80°	8318.3	17.5
80°-90°	672.2	1.4
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°	47647.0	100.0
0°-180°	47647.0	100.0

**Coefficient of Utilization**



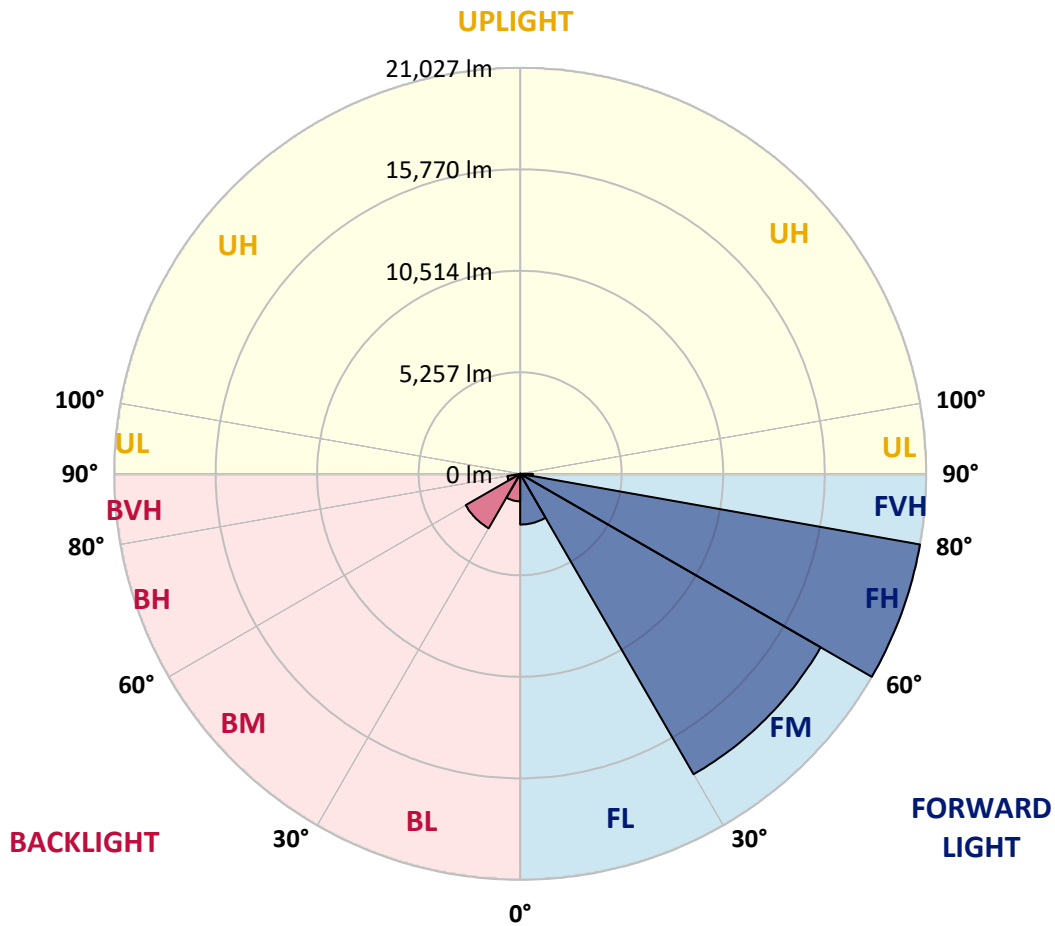
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2626.6	5.5			
FM (30°-60°)	17967.7	37.7			
FH (60°-80°)	21027.2	44.1			G5
FVH (80°-90°)	663.1	1.4			G4/750
BL (0°-30°)	1424.9	3.0	B3/2500		
BM (30°-60°)	3255.5	6.8	B3/5000		
BH (60°-80°)	672.9	1.4	B2/1000		G2/1000
BVH (80°-90°)	9.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	6905.6	6905.6	6905.6	6905.6	6905.6	6905.6	6905.6	6905.6	6905.6	6905.6
2.5°	6598.4	6654.3	6664.8	6682.2	6682.2	6703.2	6738.1	6786.9	6867.2	6909.1
5°	6081.7	6123.6	6176.0	6217.9	6298.2	6308.6	6444.8	6577.5	6762.5	6902.2
7.5°	5561.5	5610.4	5680.2	5781.5	5886.2	5917.6	6123.6	6347.1	6640.3	6902.2
10°	5194.9	5198.4	5261.3	5362.5	5530.1	5568.5	5819.9	6137.6	6504.2	6860.3
12.5°	4989.0	5013.4	5041.3	5118.1	5278.7	5303.2	5572.0	5945.6	6368.0	6835.8
15°	4989.0	5006.4	5023.9	5062.3	5191.5	5212.4	5449.8	5823.4	6298.2	6846.3
17.5°	5041.3	5069.3	5055.3	5100.7	5236.8	5250.8	5460.3	5788.5	6294.7	6912.6
20°	5167.0	5188.0	5160.0	5188.0	5324.1	5352.1	5568.5	5854.8	6354.0	7027.8
22.5°	5366.0	5376.5	5310.2	5331.1	5470.8	5505.7	5757.0	6043.3	6497.2	7212.9
25°	5617.4	5638.3	5537.1	5561.5	5694.2	5736.1	6025.9	6326.1	6724.1	7467.7
27.5°	5907.2	5917.6	5830.3	5826.9	5997.9	6057.3	6350.5	6675.2	7027.8	7788.9
30°	6238.8	6270.2	6186.5	6172.5	6388.9	6437.8	6727.6	7104.6	7474.7	8270.7
32.5°	6500.7	6525.1	6476.2	6511.1	6731.1	6769.5	7184.9	7712.1	8176.5	8955.0
35°	6877.7	6891.7	6780.0	6842.8	7094.2	7191.9	7809.9	8564.0	9059.7	9813.8
37.5°	8242.8	8242.8	7768.0	7457.3	7698.2	7785.4	8665.2	9635.8	10149.0	10965.9
40°	10131.5	10100.1	9405.4	8770.0	8738.5	8909.6	9883.7	10986.9	11556.0	12348.5
42.5°	12146.0	12097.1	11151.0	10522.6	10417.8	10477.2	11290.6	12652.2	13231.8	14034.7
45°	13933.5	13919.5	13053.7	12208.8	12020.3	12208.8	13046.7	14600.3	15015.8	15860.6
47.5°	15431.2	15431.2	14799.3	14247.7	14149.9	14261.7	15424.2	16761.4	16723.0	17805.3
50°	17155.9	17141.9	16541.4	16304.0	16405.3	16562.4	18161.4	19037.7	18489.5	19715.0
52.5°	18363.9	18447.6	18241.7	18203.3	18720.0	18992.3	20940.4	21265.1	20071.1	21526.9
55°	19320.5	19418.2	19655.6	19924.4	20919.4	21275.5	23632.1	23377.3	21394.2	23098.0
57.5°	20675.0	20535.4	20902.0	21432.6	23042.1	23471.5	26240.1	25370.7	22459.1	24372.3
60°	22319.4	22340.4	22403.2	23073.5	25161.3	25712.9	28809.6	27256.0	23143.3	25154.3
62.5°	24295.5	24326.9	24456.0	25486.0	28006.6	28526.8	31546.7	28799.1	23457.6	24934.3
65°	24159.3	24292.0	25733.8	29256.5	32332.3	32845.5	34741.2	29881.4	22982.8	22923.4
67.5°	22008.7	22225.2	24637.6	33760.2	38853.9	39426.4	38602.5	30094.4	20933.4	17826.2
70°	19187.8	19264.6	22165.8	37810.0	46405.4	46984.9	42058.8	27751.8	15885.1	9943.0
72.5°	14984.3	15001.8	18405.8	38749.1	50504.1	50535.5	39346.1	20601.7	8543.0	3819.4
75°	10704.1	10599.4	12327.5	31424.5	44432.9	44789.0	29497.4	9663.7	3264.3	1805.0
77.5°	5739.6	5854.8	6975.5	18636.2	30694.9	31302.3	16094.6	2786.0	1661.8	1228.9
80°	1773.5	1871.3	2859.3	8532.6	17386.3	17752.9	5966.5	1239.4	1159.1	876.3
82.5°	558.6	579.5	1333.6	3585.5	7216.4	7383.9	1728.2	701.7	792.5	579.5
85°	160.6	164.1	593.5	1337.1	1784.0	1818.9	485.3	272.3	453.9	359.6
87.5°	17.5	55.9	223.4	223.4	157.1	153.6	52.4	59.4	129.2	45.4
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°
6905.6	0°	6905.6	6905.6	6905.6	6905.6	6905.6	6905.6	6905.6	6905.6	6905.6	6905.6
6937.1	2.5°	6919.6	6923.1	6877.7	6800.9	6717.1	6647.3	6560.0	6490.2	6441.3	6427.3
6999.9	5°	6968.5	6944.1	6814.9	6581.0	6301.7	6060.8	5791.9	5579.0	5439.3	5380.0
7066.2	7.5°	7041.8	6972.0	6689.2	6228.3	5694.2	5219.4	4737.6	4364.0	4126.6	4007.9
7129.1	10°	7104.6	6965.0	6479.7	5718.6	4901.7	4182.5	3533.1	3082.8	2831.4	2712.7
7202.4	12.5°	7164.0	6961.5	6207.4	5114.6	4007.9	3128.1	2524.2	2300.7	2230.9	2206.5
7321.1	15°	7275.7	6972.0	5865.3	4423.4	3117.7	2363.6	2143.6	2140.1	2154.1	2147.1
7502.6	17.5°	7429.3	6982.5	5477.7	3690.2	2405.5	2084.3	2073.8	2105.2	2126.2	2115.7
7729.6	20°	7628.3	7024.3	5065.8	2964.1	2066.8	2014.4	2038.9	2066.8	2084.3	2066.8
8033.3	22.5°	7907.6	7097.7	4615.4	2381.0	1958.6	1972.5	1993.5	2024.9	2042.4	2017.9
8420.8	25°	8249.8	7212.9	4172.0	2070.3	1906.2	1923.7	1955.1	1990.0	2010.9	1986.5
8909.6	27.5°	8693.2	7397.9	3763.5	2000.5	1853.8	1864.3	1909.7	1962.1	1990.0	1958.6
9604.4	30°	9335.5	7701.6	3410.9	2031.9	1822.4	1798.0	1860.8	1934.1	1965.6	1937.6
10550.5	32.5°	10187.4	8131.1	3194.5	2080.8	1808.5	1721.2	1780.5	1874.8	1927.2	1909.7
11786.4	35°	11304.6	8783.9	3110.7	2136.6	1798.0	1640.9	1682.8	1784.0	1874.8	1892.2
13343.5	37.5°	12659.2	9691.6	3135.1	2161.1	1766.6	1574.5	1595.5	1682.8	1801.5	1857.3
15096.1	40°	14198.8	10749.5	3274.8	2136.6	1731.6	1518.7	1522.2	1588.5	1693.2	1777.0
16981.3	42.5°	15787.3	11985.4	3533.1	2045.9	1700.2	1469.8	1459.3	1504.7	1574.5	1633.9
18863.1	45°	17299.0	13256.2	3788.0	1920.2	1661.8	1420.9	1396.5	1413.9	1427.9	1452.4
20696.0	47.5°	18618.7	14149.9	3714.7	1805.0	1609.5	1365.1	1323.2	1316.2	1274.3	1270.8
22333.4	50°	19529.9	14345.5	3299.2	1689.8	1532.6	1302.2	1235.9	1194.0	1120.7	1085.8
23558.8	52.5°	19819.7	13573.9	2695.2	1574.5	1407.0	1218.4	1124.2	1057.8	967.1	935.6
24264.0	55°	19435.7	12062.2	2154.1	1434.9	1232.4	1106.7	1002.0	914.7	841.4	803.0
24340.8	57.5°	18496.5	10138.5	1703.7	1270.8	1047.4	981.0	876.3	789.0	726.2	687.8
23489.0	60°	16939.4	8050.8	1347.6	1075.3	893.8	844.9	736.6	680.8	624.9	579.5
21289.5	62.5°	14575.9	5746.6	1057.8	851.9	747.1	691.3	628.4	586.5	520.2	457.4
17333.9	65°	11374.4	3515.7	816.9	624.9	600.5	572.6	534.2	495.8	415.5	352.6
11308.1	67.5°	7174.5	1665.3	583.0	471.3	474.8	460.8	443.4	412.0	352.6	296.8
5065.8	70°	3159.6	806.5	384.0	359.6	352.6	352.6	366.6	356.1	300.2	247.9
1759.6	72.5°	1075.3	432.9	286.3	272.3	254.9	251.4	307.2	296.8	240.9	192.0
876.3	75°	562.1	289.8	209.5	195.5	153.6	185.0	244.4	230.4	171.1	125.7
579.5	77.5°	366.6	206.0	143.1	125.7	87.3	122.2	181.5	160.6	101.2	62.8
380.5	80°	230.4	136.2	83.8	59.4	41.9	66.3	97.8	69.8	38.4	14.0
223.4	82.5°	122.2	69.8	31.4	20.9	17.5	20.9	24.4	17.5	7.0	0.0
115.2	85°	48.9	24.4	10.5	7.0	3.5	0.0	7.0	3.5	0.0	0.0
20.9	87.5°	17.5	3.5	0.0	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

<u>180°</u>
6905.6
6451.8
5400.9
4025.4
2716.2
2199.5
2143.6
2112.2
2063.3
2014.4
1983.0
1958.6
1934.1
1909.7
1892.2
1871.3
1805.0
1658.3
1466.3
1267.3
1089.3
932.2
803.0
680.8
569.1
446.9
342.1
289.8
237.4
181.5
115.2
55.9
10.5
0.0
0.0
0.0
0.0

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