

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: P944568

Luminaire Tested: **GALN-SB9C-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944568
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-SB9C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 44911 lumens
Efficiency: N/A
Efficacy: 99.8 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

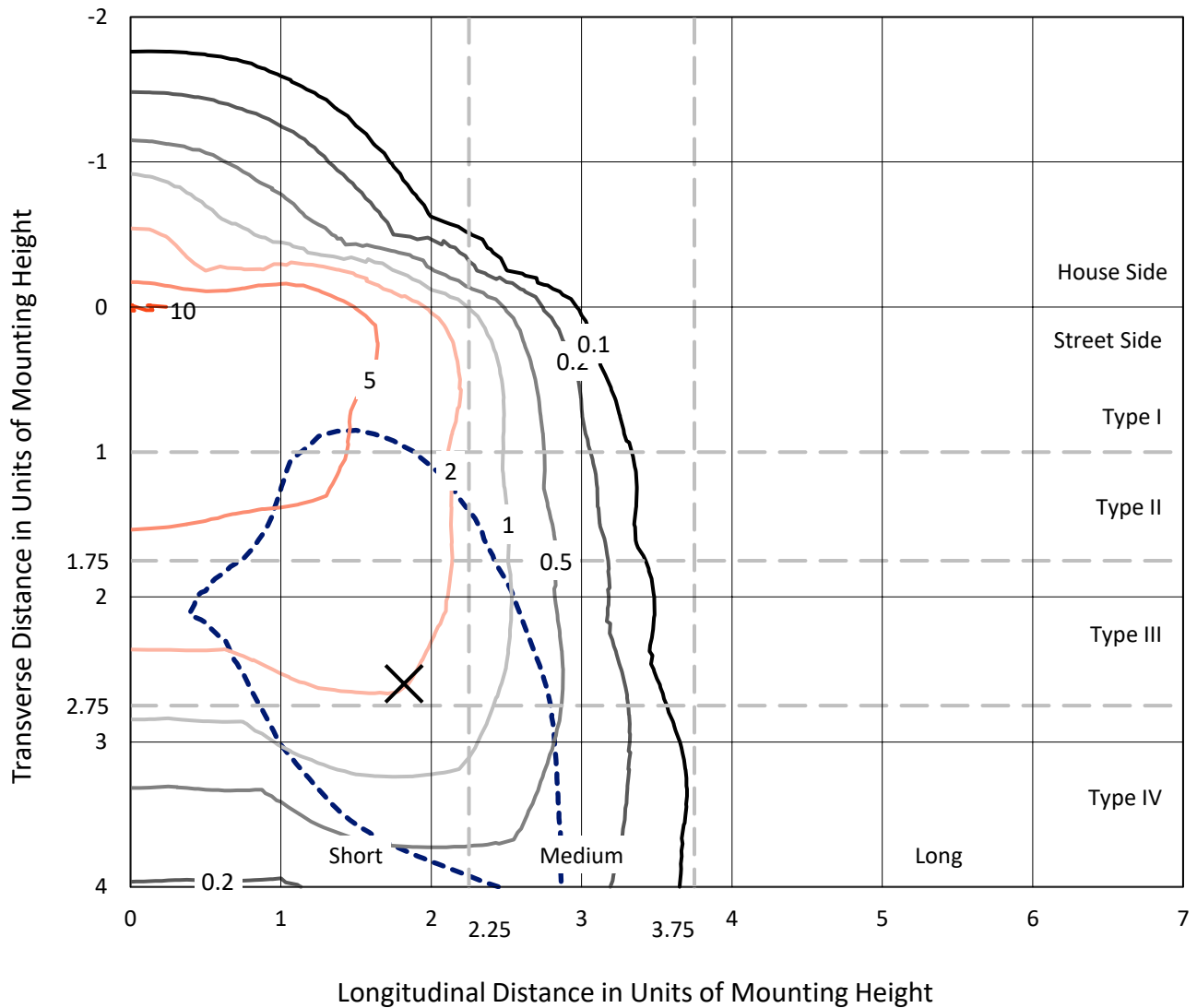
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

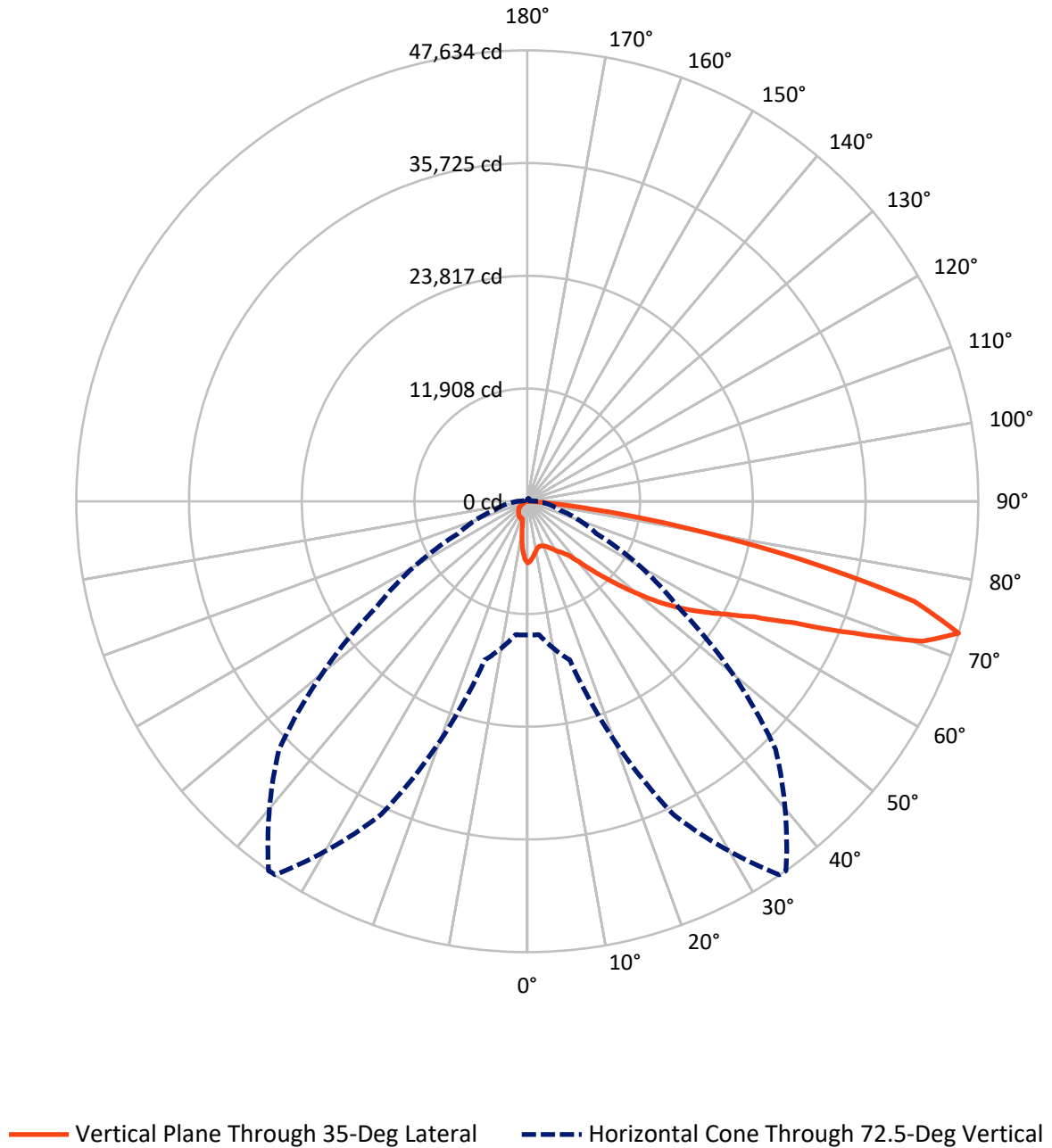
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5054.5	0.0	5054.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	39856.5	0.0	39856.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	44911.0	0.0	44911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.9	1.2
10°-20°	1251.3	2.8
20°-30°	2032.7	4.5
30°-40°	3391.5	7.6
40°-50°	6416.8	14.3
50°-60°	10196.2	22.7
60°-70°	12613.4	28.1
70°-80°	7840.6	17.5
80°-90°	633.6	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°	44911.0	100.0
0°-180°	44911.0	100.0

Coefficient of Utilization



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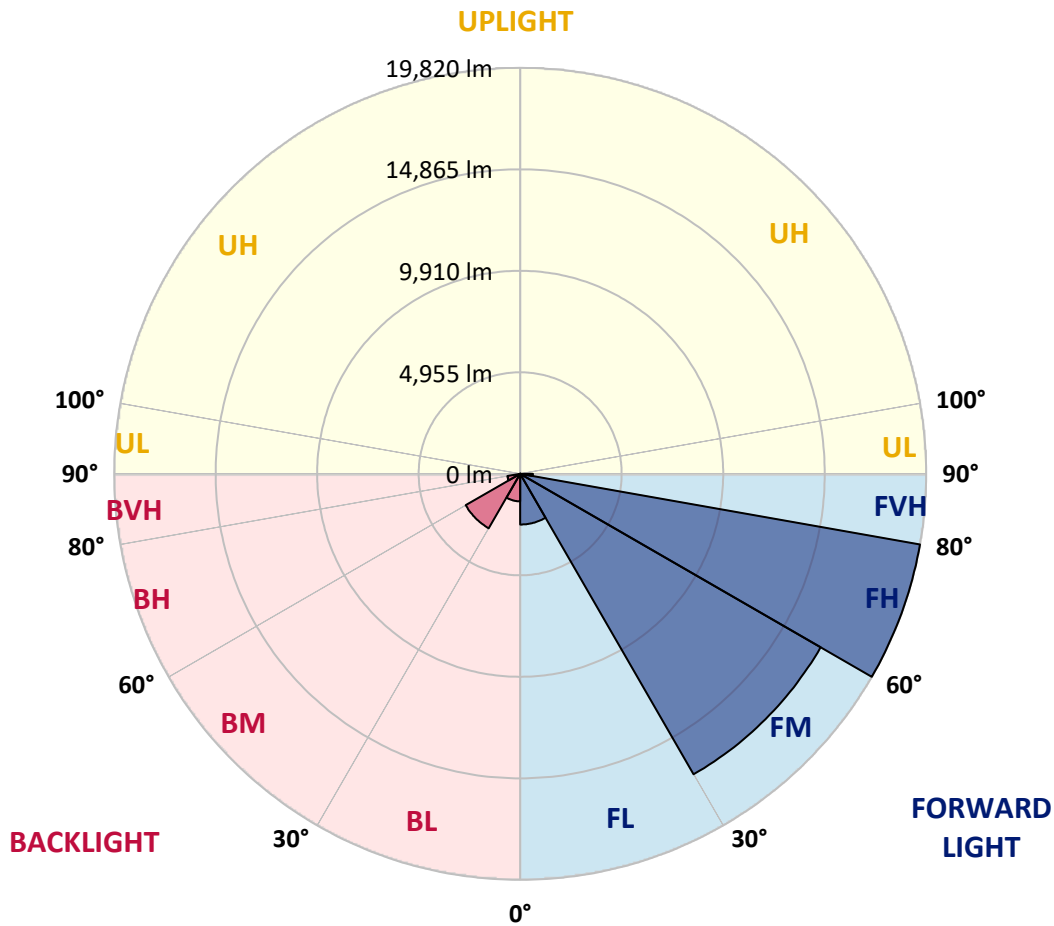
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2475.7	5.5			
FM (30°-60°)	16935.9	37.7			
FH (60°-80°)	19819.8	44.1			G5
FVH (80°-90°)	625.0	1.4			G4/750
BL (0°-30°)	1343.1	3.0	B3/2500		
BM (30°-60°)	3068.5	6.8	B3/5000		
BH (60°-80°)	634.3	1.4	B2/1000		G2/1000
BVH (80°-90°)	8.6	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°	6509.1	6509.1	6509.1	6509.1	6509.1	6509.1	6509.1	6509.1	6509.1	6509.1
2.5°	6219.5	6272.2	6282.0	6298.5	6298.5	6318.2	6351.2	6397.2	6472.9	6512.4
5°	5732.5	5772.0	5821.3	5860.8	5936.5	5946.4	6074.7	6199.8	6374.2	6505.8
7.5°	5242.2	5288.2	5354.1	5449.5	5548.2	5577.8	5772.0	5982.6	6259.0	6505.8
10°	4896.6	4899.9	4959.2	5054.6	5212.6	5248.8	5485.7	5785.1	6130.7	6466.3
12.5°	4702.5	4725.5	4751.8	4824.2	4975.6	4998.7	5252.0	5604.2	6002.3	6443.3
15°	4702.5	4718.9	4735.4	4771.6	4893.3	4913.1	5136.9	5489.0	5936.5	6453.2
17.5°	4751.8	4778.2	4765.0	4807.8	4936.1	4949.3	5146.7	5456.1	5933.2	6515.7
20°	4870.3	4890.1	4863.7	4890.1	5018.4	5044.7	5248.8	5518.6	5989.2	6624.3
22.5°	5057.9	5067.8	5005.2	5025.0	5156.6	5189.5	5426.5	5696.3	6124.1	6798.7
25°	5294.8	5314.6	5219.1	5242.2	5367.2	5406.7	5679.8	5962.8	6338.0	7038.9
27.5°	5568.0	5577.8	5495.6	5492.3	5653.5	5709.5	5985.9	6291.9	6624.3	7341.7
30°	5880.6	5910.2	5831.2	5818.1	6022.1	6068.1	6341.3	6696.7	7045.5	7795.8
32.5°	6127.4	6150.4	6104.3	6137.3	6344.6	6380.8	6772.4	7269.3	7706.9	8440.8
35°	6482.8	6495.9	6390.6	6449.9	6686.8	6779.0	7361.4	8072.2	8539.5	9250.3
37.5°	7769.5	7769.5	7321.9	7029.0	7256.1	7338.4	8167.6	9082.5	9566.2	10336.3
40°	9549.8	9520.1	8865.3	8266.4	8236.8	8398.0	9316.1	10356.0	10892.4	11639.4
42.5°	11448.5	11402.5	10510.7	9918.3	9819.6	9875.6	10642.3	11925.7	12472.0	13228.8
45°	13133.4	13120.2	12304.1	11507.8	11330.1	11507.8	12297.5	13761.9	14153.5	14949.9
47.5°	14545.1	14545.1	13949.5	13429.6	13337.4	13442.7	14538.5	15798.9	15762.7	16782.8
50°	16170.8	16157.6	15591.6	15367.8	15463.2	15611.3	17118.5	17944.5	17427.8	18582.9
52.5°	17309.4	17388.3	17194.2	17158.0	17645.0	17901.7	19737.9	20044.0	18918.5	20290.8
55°	18211.0	18303.2	18526.9	18780.3	19718.2	20053.8	22275.1	22034.9	20165.7	21771.6
57.5°	19487.8	19356.2	19701.7	20201.9	21719.0	22123.7	24733.3	23913.9	21169.4	22972.7
60°	21037.8	21057.5	21116.8	21748.6	23716.5	24236.4	27155.3	25690.9	21814.4	23709.9
62.5°	22900.4	22930.0	23051.7	24022.5	26398.4	26888.7	29735.2	27145.4	22110.6	23502.6
65°	22772.0	22897.1	24256.1	27576.5	30475.7	30959.4	32746.3	28165.6	21663.0	21607.1
67.5°	20744.9	20948.9	23222.8	31821.6	36622.8	37162.5	36385.9	28366.3	19731.4	16802.6
70°	18086.0	18158.4	20893.0	35638.9	43740.7	44287.0	39643.7	26158.2	14972.9	9372.1
72.5°	14123.9	14140.4	17348.9	36524.1	47604.0	47633.7	37086.8	19418.7	8052.5	3600.1
75°	10089.4	9990.7	11619.6	29620.1	41881.4	42217.1	27803.6	9108.8	3076.9	1701.3
77.5°	5410.0	5518.6	6574.9	17566.0	28932.3	29504.9	15170.4	2626.0	1566.4	1158.3
80°	1671.7	1763.8	2695.1	8042.6	16388.0	16733.5	5623.9	1168.2	1092.5	826.0
82.5°	526.5	546.3	1257.1	3379.6	6802.0	6959.9	1628.9	661.4	747.0	546.3
85°	151.4	154.7	559.4	1260.4	1681.6	1714.5	457.4	256.7	427.8	338.9
87.5°	16.5	52.7	210.6	210.6	148.1	144.8	49.4	55.9	121.8	42.8
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°
6509.1	0°	6509.1	6509.1	6509.1	6509.1	6509.1	6509.1	6509.1	6509.1	6509.1	6509.1
6538.7	2.5°	6522.3	6525.6	6482.8	6410.4	6331.4	6265.6	6183.3	6117.5	6071.4	6058.3
6598.0	5°	6568.3	6545.3	6423.6	6203.1	5939.8	5712.7	5459.4	5258.6	5127.0	5071.1
6660.5	7.5°	6637.4	6571.6	6305.1	5870.7	5367.2	4919.7	4465.6	4113.4	3889.7	3777.8
6719.7	10°	6696.7	6565.1	6107.6	5390.3	4620.2	3942.3	3330.2	2905.7	2668.8	2556.9
6788.8	12.5°	6752.6	6561.8	5851.0	4821.0	3777.8	2948.5	2379.2	2168.6	2102.8	2079.8
6900.7	15°	6857.9	6571.6	5528.5	4169.4	2938.6	2227.8	2020.5	2017.2	2030.4	2023.8
7071.8	17.5°	7002.7	6581.5	5163.2	3478.3	2267.3	1964.6	1954.7	1984.3	2004.1	1994.2
7285.7	20°	7190.3	6621.0	4774.9	2793.8	1948.1	1898.8	1921.8	1948.1	1964.6	1948.1
7572.0	22.5°	7453.6	6690.1	4350.4	2244.3	1846.1	1859.3	1879.0	1908.6	1925.1	1902.1
7937.3	25°	7776.0	6798.7	3932.4	1951.4	1796.8	1813.2	1842.8	1875.7	1895.5	1872.4
8398.0	27.5°	8194.0	6973.1	3547.4	1885.6	1747.4	1757.3	1800.0	1849.4	1875.7	1846.1
9052.9	30°	8799.5	7259.4	3215.1	1915.2	1717.8	1694.7	1754.0	1823.1	1852.7	1826.4
9944.7	32.5°	9602.4	7664.2	3011.0	1961.3	1704.6	1622.3	1678.3	1767.1	1816.5	1800.0
11109.6	35°	10655.5	8279.5	2932.1	2013.9	1694.7	1546.7	1586.1	1681.6	1767.1	1783.6
12577.3	37.5°	11932.3	9135.1	2955.1	2037.0	1665.1	1484.1	1503.9	1586.1	1698.0	1750.7
14229.2	40°	13383.5	10132.2	3086.7	2013.9	1632.2	1431.5	1434.8	1497.3	1596.0	1675.0
16006.2	42.5°	14880.8	11297.2	3330.2	1928.4	1602.6	1385.4	1375.5	1418.3	1484.1	1540.1
17779.9	45°	16305.7	12495.0	3570.5	1809.9	1566.4	1339.3	1316.3	1332.8	1345.9	1369.0
19507.6	47.5°	17549.6	13337.4	3501.4	1701.3	1517.0	1286.7	1247.2	1240.6	1201.1	1197.8
21050.9	50°	18408.5	13521.7	3109.8	1592.7	1444.6	1227.5	1164.9	1125.4	1056.3	1023.4
22206.0	52.5°	18681.6	12794.4	2540.5	1484.1	1326.2	1148.5	1059.6	997.1	911.5	881.9
22870.7	55°	18319.6	11369.6	2030.4	1352.5	1161.6	1043.2	944.4	862.2	793.1	756.9
22943.1	57.5°	17434.4	9556.3	1605.9	1197.8	987.2	924.7	826.0	743.7	684.5	648.3
22140.2	60°	15966.7	7588.5	1270.2	1013.6	842.4	796.4	694.3	641.7	589.0	546.3
20067.0	62.5°	13738.9	5416.6	997.1	802.9	704.2	651.6	592.3	552.8	490.3	431.1
16338.6	65°	10721.3	3313.8	770.0	589.0	566.0	539.7	503.5	467.3	391.6	332.4
10658.7	67.5°	6762.5	1569.7	549.6	444.3	447.5	434.4	417.9	388.3	332.4	279.7
4774.9	70°	2978.1	760.2	362.0	338.9	332.4	332.4	345.5	335.7	283.0	233.6
1658.5	72.5°	1013.6	408.1	269.8	256.7	240.2	236.9	289.6	279.7	227.1	181.0
826.0	75°	529.8	273.1	197.4	184.3	144.8	174.4	230.4	217.2	161.2	118.5
546.3	77.5°	345.5	194.2	134.9	118.5	82.3	115.2	171.1	151.4	95.4	59.2
358.7	80°	217.2	128.3	79.0	55.9	39.5	62.5	92.1	65.8	36.2	13.2
210.6	82.5°	115.2	65.8	29.6	19.7	16.5	19.7	23.0	16.5	6.6	0.0
108.6	85°	46.1	23.0	9.9	6.6	3.3	0.0	6.6	3.3	0.0	0.0
19.7	87.5°	16.5	3.3	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>
6509.1
6081.3
5090.8
3794.2
2560.2
2073.2
2020.5
1990.9
1944.8
1898.8
1869.1
1846.1
1823.1
1800.0
1783.6
1763.8
1701.3
1563.1
1382.1
1194.5
1026.7
878.6
756.9
641.7
536.4
421.2
322.5
273.1
223.8
<i>171.1</i>
108.6
52.7
9.9
0.0
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