

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: P944788

Luminaire Tested: **GALN-SB9D-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944788
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-SB9D-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 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: 42717 lumens
Efficiency: N/A
Efficacy: 64.9 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

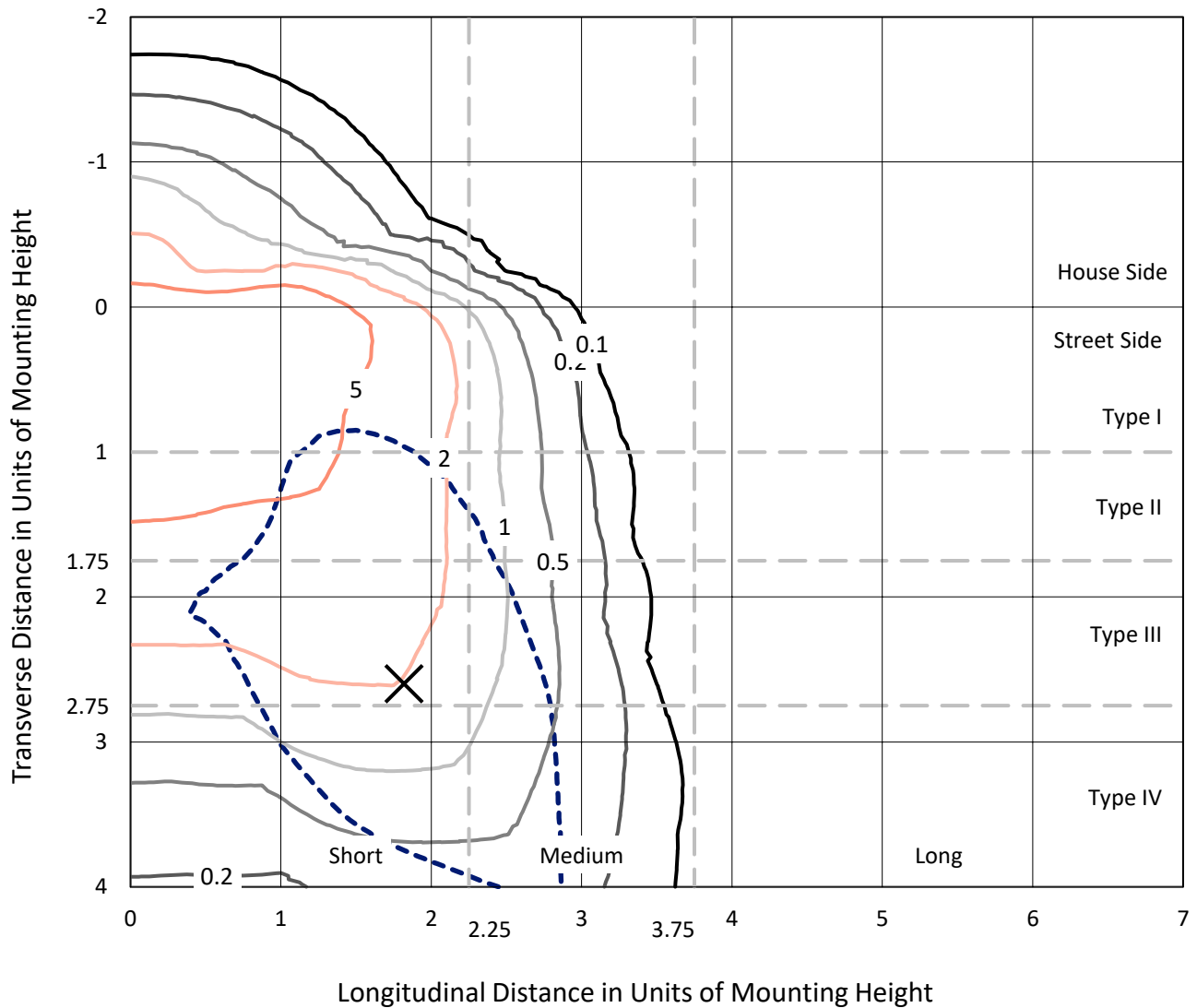
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

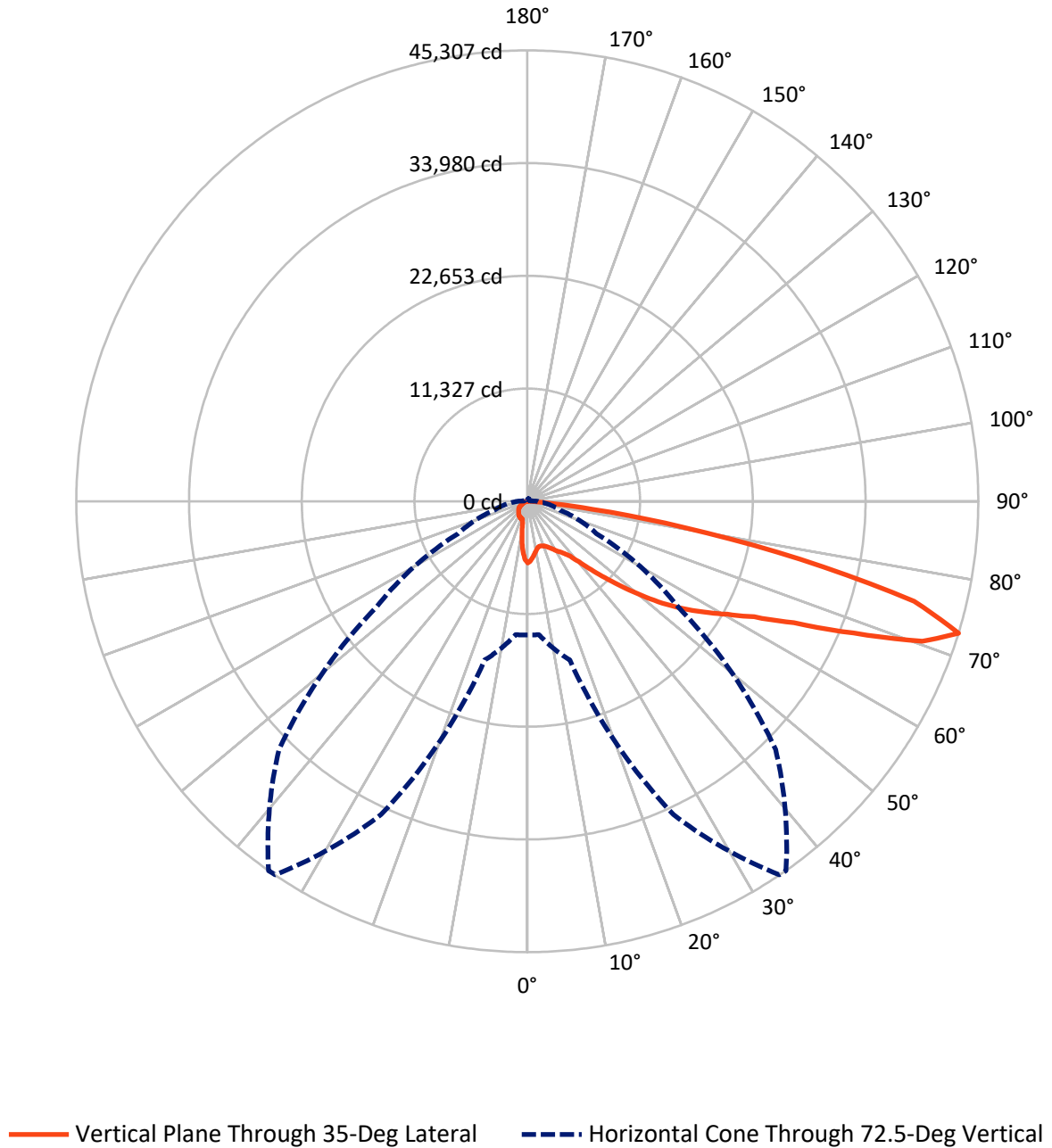
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	4807.6	0.0	4807.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	37909.4	0.0	37909.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	42717.0	0.0	42717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.7	1.2
10°-20°	1190.2	2.8
20°-30°	1933.4	4.5
30°-40°	3225.8	7.6
40°-50°	6103.3	14.3
50°-60°	9698.1	22.7
60°-70°	11997.2	28.1
70°-80°	7457.6	17.5
80°-90°	602.7	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°	42717.0	100.0
0°-180°	42717.0	100.0

Coefficient of Utilization



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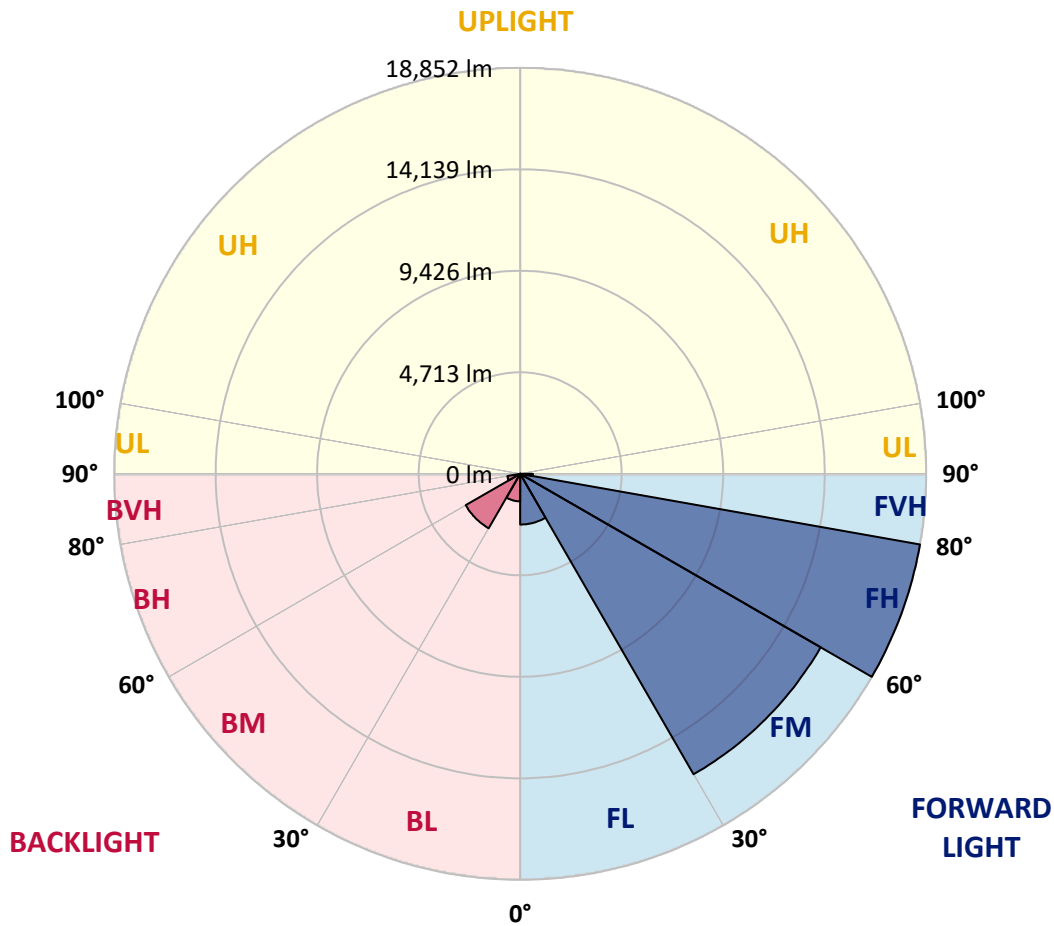
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2354.8	5.5			
FM (30°-60°)	16108.6	37.7			
FH (60°-80°)	18851.5	44.1			G5
FVH (80°-90°)	594.5	1.4			G4/750
BL (0°-30°)	1277.5	3.0	B3/2500		
BM (30°-60°)	2918.6	6.8	B3/5000		
BH (60°-80°)	603.3	1.4	B2/1000		G2/1000
BVH (80°-90°)	8.2	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°	6191.1	6191.1	6191.1	6191.1	6191.1	6191.1	6191.1	6191.1	6191.1	6191.1
2.5°	5915.7	5965.8	5975.2	5990.8	5990.8	6009.6	6040.9	6084.7	6156.7	6194.3
5°	5452.4	5490.0	5537.0	5574.5	5646.5	5655.9	5778.0	5896.9	6062.8	6188.0
7.5°	4986.1	5029.9	5092.5	5183.3	5277.2	5305.3	5490.0	5690.3	5953.2	6188.0
10°	4657.4	4660.6	4716.9	4807.7	4957.9	4992.3	5217.7	5502.5	5831.2	6150.4
12.5°	4472.8	4494.7	4519.7	4588.6	4732.5	4754.5	4995.5	5330.4	5709.1	6128.5
15°	4472.8	4488.4	4504.1	4538.5	4654.3	4673.1	4885.9	5220.8	5646.5	6137.9
17.5°	4519.7	4544.7	4532.2	4572.9	4695.0	4707.5	4895.3	5189.5	5643.4	6197.4
20°	4632.4	4651.2	4626.1	4651.2	4773.2	4798.3	4992.3	5249.0	5696.6	6300.7
22.5°	4810.8	4820.2	4760.7	4779.5	4904.7	4936.0	5161.4	5418.0	5824.9	6466.6
25°	5036.2	5054.9	4964.2	4986.1	5105.0	5142.6	5402.4	5671.5	6028.4	6695.1
27.5°	5295.9	5305.3	5227.1	5224.0	5377.3	5430.5	5693.5	5984.5	6300.7	6983.0
30°	5593.3	5621.5	5546.3	5533.8	5727.9	5771.7	6031.5	6369.5	6701.3	7415.0
32.5°	5828.0	5850.0	5806.1	5837.4	6034.6	6069.1	6441.5	6914.2	7330.4	8028.4
35°	6166.1	6178.6	6078.4	6134.8	6360.1	6447.8	7001.8	7677.9	8122.3	8798.4
37.5°	7389.9	7389.9	6964.2	6685.7	6901.6	6979.9	7768.6	8638.8	9098.9	9831.3
40°	9083.2	9055.1	8432.2	7862.5	7834.4	7987.7	8861.0	9850.1	10360.3	11070.8
42.5°	10889.2	10845.4	9997.2	9433.8	9339.9	9393.1	10122.4	11343.1	11862.7	12582.6
45°	12491.8	12479.3	11703.0	10945.6	10776.6	10945.6	11696.8	13089.6	13462.1	14219.6
47.5°	13834.6	13834.6	13268.0	12773.5	12685.9	12786.0	13828.3	15027.1	14992.7	15963.0
50°	15380.8	15368.3	14829.9	14617.1	14707.8	14848.7	16282.2	17067.9	16576.4	17675.1
52.5°	16463.8	16538.9	16354.2	16319.8	16783.0	17027.2	18773.7	19064.8	17994.3	19299.5
55°	17321.4	17409.0	17621.9	17862.9	18754.9	19074.2	21186.9	20958.4	19180.6	20708.0
57.5°	18535.8	18410.6	18739.3	19215.0	20658.0	21042.9	23525.0	22745.7	20135.2	21850.5
60°	20010.0	20028.8	20085.2	20686.1	22557.9	23052.4	25828.7	24435.9	20748.7	22551.6
62.5°	21781.6	21809.8	21925.6	22848.9	25108.8	25575.2	28282.6	25819.3	21030.4	22354.4
65°	21659.5	21778.5	23071.2	26229.3	28986.9	29447.0	31146.6	26789.6	20604.7	20551.5
67.5°	19731.5	19925.5	22088.4	30267.0	34833.7	35347.0	34608.3	26980.5	18767.4	15981.7
70°	17202.4	17271.3	19872.3	33897.8	41603.9	42123.4	37707.0	24880.3	14241.5	8914.2
72.5°	13433.9	13449.6	16501.3	34739.8	45278.5	45306.6	35275.0	18470.1	7659.1	3424.2
75°	9596.6	9502.7	11052.0	28173.1	39835.4	40154.7	26445.3	8663.8	2926.5	1618.2
77.5°	5145.7	5249.0	6253.7	16707.9	27518.9	28063.5	14429.3	2497.7	1489.9	1101.8
80°	1590.0	1677.7	2563.5	7649.7	15587.4	15916.0	5349.2	1111.1	1039.2	785.6
82.5°	500.8	519.6	1195.7	3214.5	6469.7	6619.9	1549.3	629.1	710.5	519.6
85°	144.0	147.1	532.1	1198.8	1599.4	1630.7	435.1	244.1	406.9	322.4
87.5°	15.6	50.1	200.3	200.3	140.8	137.7	46.9	53.2	115.8	40.7
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°
6191.1	0°	6191.1	6191.1	6191.1	6191.1	6191.1	6191.1	6191.1	6191.1	6191.1	6191.1
6219.3	2.5°	6203.6	6206.8	6166.1	6097.2	6022.1	5959.5	5881.3	5818.7	5774.8	5762.3
6275.6	5°	6247.5	6225.6	6109.7	5900.0	5649.6	5433.7	5192.7	5001.7	4876.5	4823.3
6335.1	7.5°	6313.2	6250.6	5997.1	5583.9	5105.0	4679.3	4247.4	3912.5	3699.7	3593.2
6391.4	10°	6369.5	6244.3	5809.3	5126.9	4394.5	3749.7	3167.6	2763.8	2538.4	2432.0
6457.2	12.5°	6422.7	6241.2	5565.1	4585.4	3593.2	2804.5	2263.0	2062.7	2000.1	1978.2
6563.6	15°	6522.9	6250.6	5258.4	3965.7	2795.1	2119.0	1921.8	1918.7	1931.2	1924.9
6726.4	17.5°	6660.6	6260.0	4911.0	3308.4	2156.6	1868.6	1859.2	1887.4	1906.2	1896.8
6929.8	20°	6839.0	6297.5	4541.6	2657.4	1853.0	1806.0	1827.9	1853.0	1868.6	1853.0
7202.1	22.5°	7089.4	6363.3	4137.9	2134.7	1755.9	1768.4	1787.2	1815.4	1831.0	1809.1
7549.5	25°	7396.2	6466.6	3740.3	1856.1	1709.0	1724.6	1752.8	1784.1	1802.9	1781.0
7987.7	27.5°	7793.7	6632.5	3374.1	1793.5	1662.0	1671.4	1712.1	1759.1	1784.1	1755.9
8610.6	30°	8369.6	6904.8	3058.0	1821.7	1633.9	1611.9	1668.3	1734.0	1762.2	1737.1
9458.8	32.5°	9133.3	7289.8	2863.9	1865.5	1621.3	1543.1	1596.3	1680.8	1727.8	1712.1
10566.9	35°	10134.9	7875.1	2788.8	1915.6	1611.9	1471.1	1508.7	1599.4	1680.8	1696.5
11962.8	37.5°	11349.4	8688.9	2810.7	1937.5	1583.8	1411.6	1430.4	1508.7	1615.1	1665.2
13534.1	40°	12729.7	9637.2	2935.9	1915.6	1552.5	1361.5	1364.7	1424.1	1518.0	1593.2
15224.3	42.5°	14153.8	10745.3	3167.6	1834.2	1524.3	1317.7	1308.3	1349.0	1411.6	1464.8
16911.4	45°	15509.1	11884.6	3396.0	1721.5	1489.9	1273.9	1252.0	1267.6	1280.2	1302.1
18554.6	47.5°	16692.3	12685.9	3330.3	1618.2	1442.9	1223.8	1186.3	1180.0	1142.4	1139.3
20022.6	50°	17509.2	12861.1	2957.8	1514.9	1374.1	1167.5	1108.0	1070.5	1004.7	973.4
21121.2	52.5°	17769.0	12169.4	2416.4	1411.6	1261.4	1092.4	1007.9	948.4	867.0	838.8
21753.4	55°	17424.7	10814.1	1931.2	1286.4	1104.9	992.2	898.3	820.1	754.3	719.9
21822.3	57.5°	16582.7	9089.5	1527.4	1139.3	939.0	879.5	785.6	707.4	651.0	616.6
21058.6	60°	15186.7	7217.8	1208.2	964.0	801.3	757.5	660.4	610.3	560.3	519.6
19086.7	62.5°	13067.7	5152.0	948.4	763.7	669.8	619.7	563.4	525.8	466.4	410.0
15540.4	65°	10197.5	3151.9	732.4	560.3	538.4	513.3	478.9	444.5	372.5	316.1
10138.0	67.5°	6432.1	1493.0	522.7	422.5	425.7	413.2	397.5	369.3	316.1	266.0
4541.6	70°	2832.6	723.0	344.3	322.4	316.1	316.1	328.6	319.3	269.2	222.2
1577.5	72.5°	964.0	388.1	256.7	244.1	228.5	225.4	275.4	266.0	216.0	172.1
785.6	75°	503.9	259.8	187.8	175.3	137.7	165.9	219.1	206.6	153.4	112.7
519.6	77.5°	328.6	184.7	128.3	112.7	78.2	109.5	162.8	144.0	90.8	56.3
341.2	80°	206.6	122.1	75.1	53.2	37.6	59.5	87.6	62.6	34.4	12.5
200.3	82.5°	109.5	62.6	28.2	18.8	15.6	18.8	21.9	15.6	6.3	0.0
103.3	85°	43.8	21.9	9.4	6.3	3.1	0.0	6.3	3.1	0.0	0.0
18.8	87.5°	15.6	3.1	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>
6191.1
5784.2
4842.1
3608.9
2435.1
1971.9
1921.8
1893.6
1849.8
1806.0
1777.8
1755.9
1734.0
1712.1
1696.5
1677.7
1618.2
1486.7
1314.6
1136.2
976.6
835.7
719.9
610.3
510.2
400.6
306.7
259.8
212.8
162.8
103.3
50.1
9.4
0.0
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0.0

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