

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: P954194

Luminaire Tested: **GALN-SB7C-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41026 lumens
Efficiency: N/A
Efficacy: 117.0 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

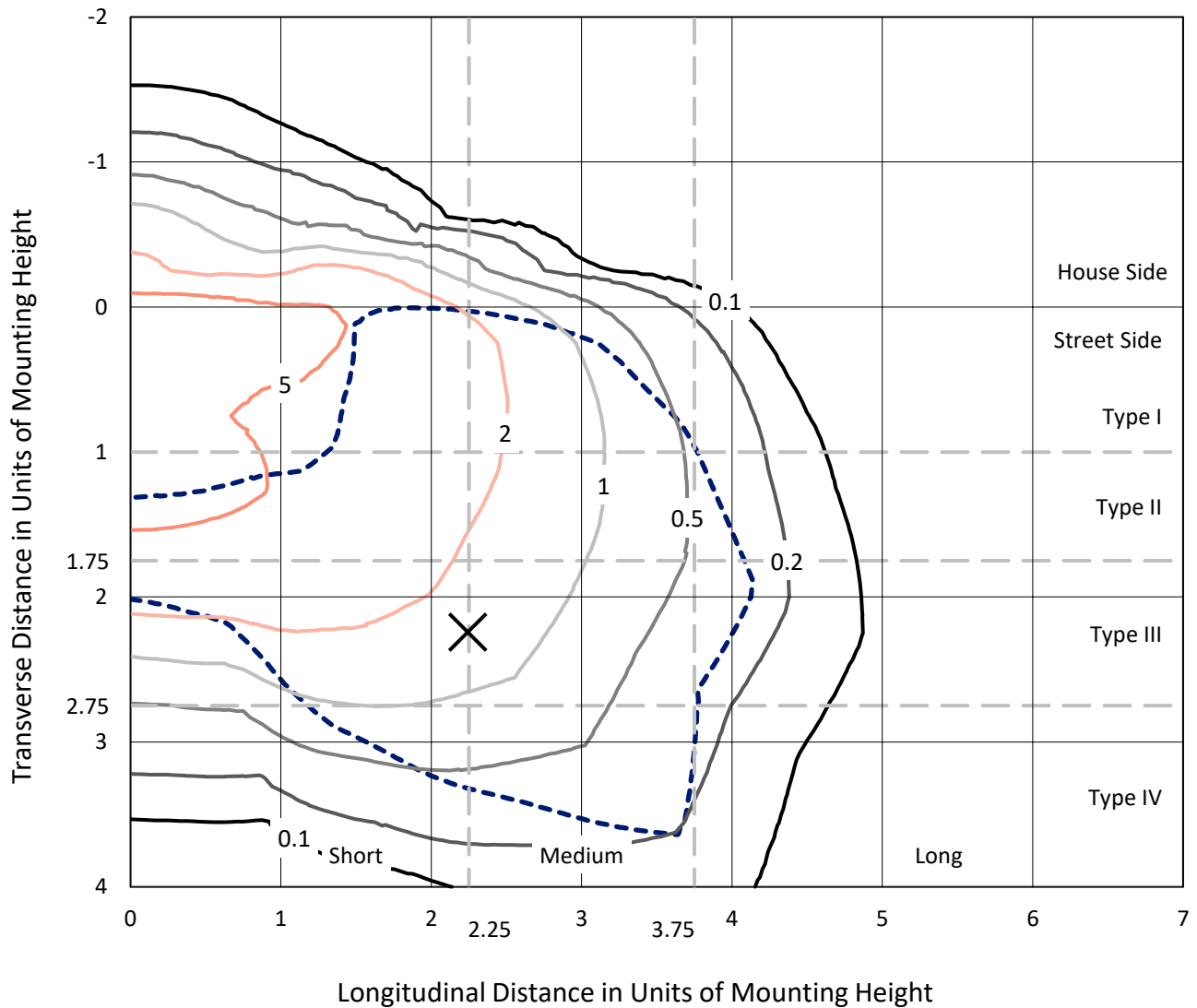
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

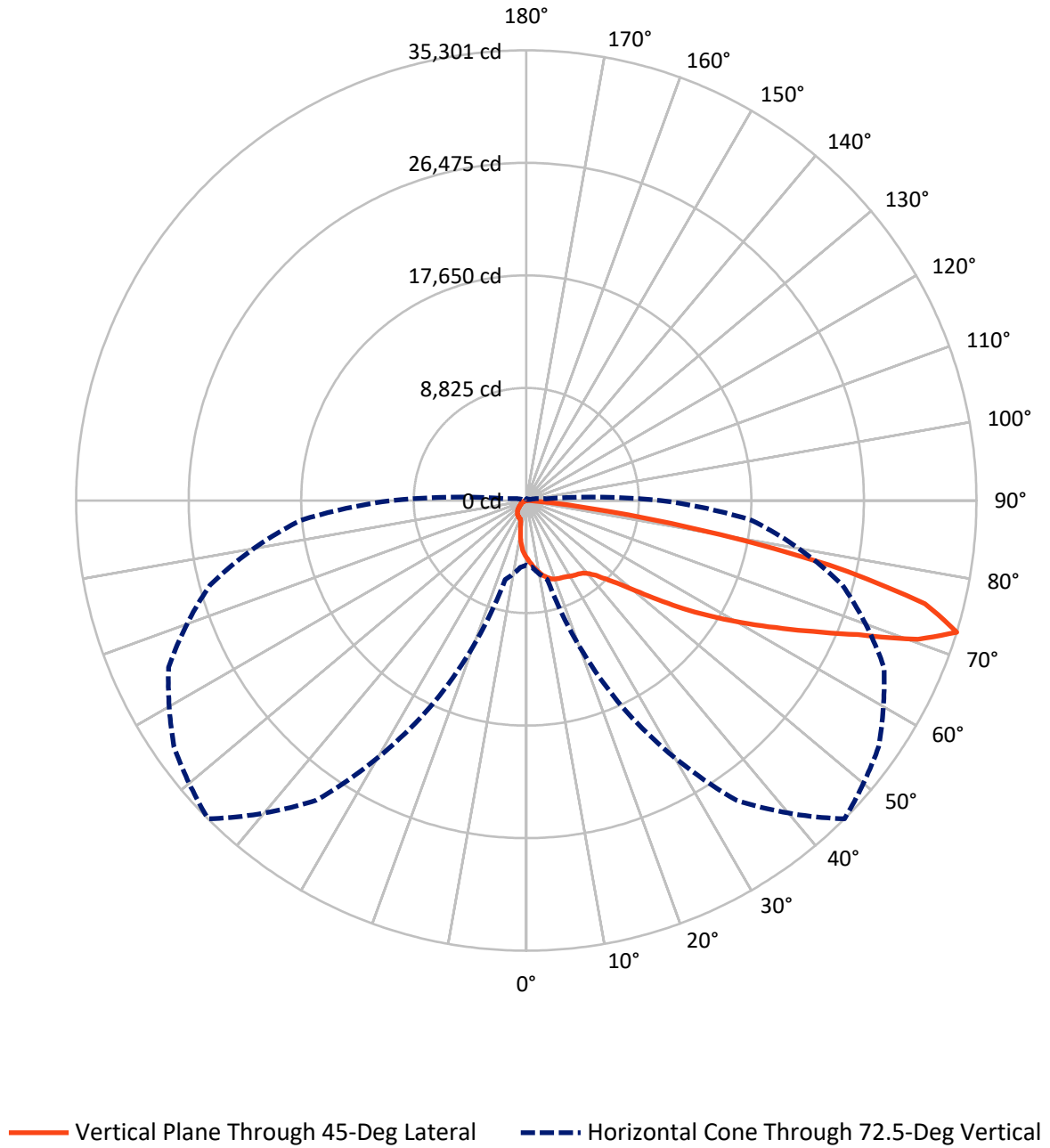
✕ Max cd
 - - - 1/2 Max cd



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	4310.7	0.0	4310.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	36715.3	0.0	36715.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	41026.0	0.0	41026.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.5	1.0
10°-20°	1237.6	3.0
20°-30°	2032.4	5.0
30°-40°	2882.4	7.0
40°-50°	4764.3	11.6
50°-60°	8558.5	20.9
60°-70°	11883.9	29.0
70°-80°	8620.2	21.0
80°-90°	623.2	1.5
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°	41026.0	100.0
0°-180°	41026.0	100.0

Coefficient of Utilization



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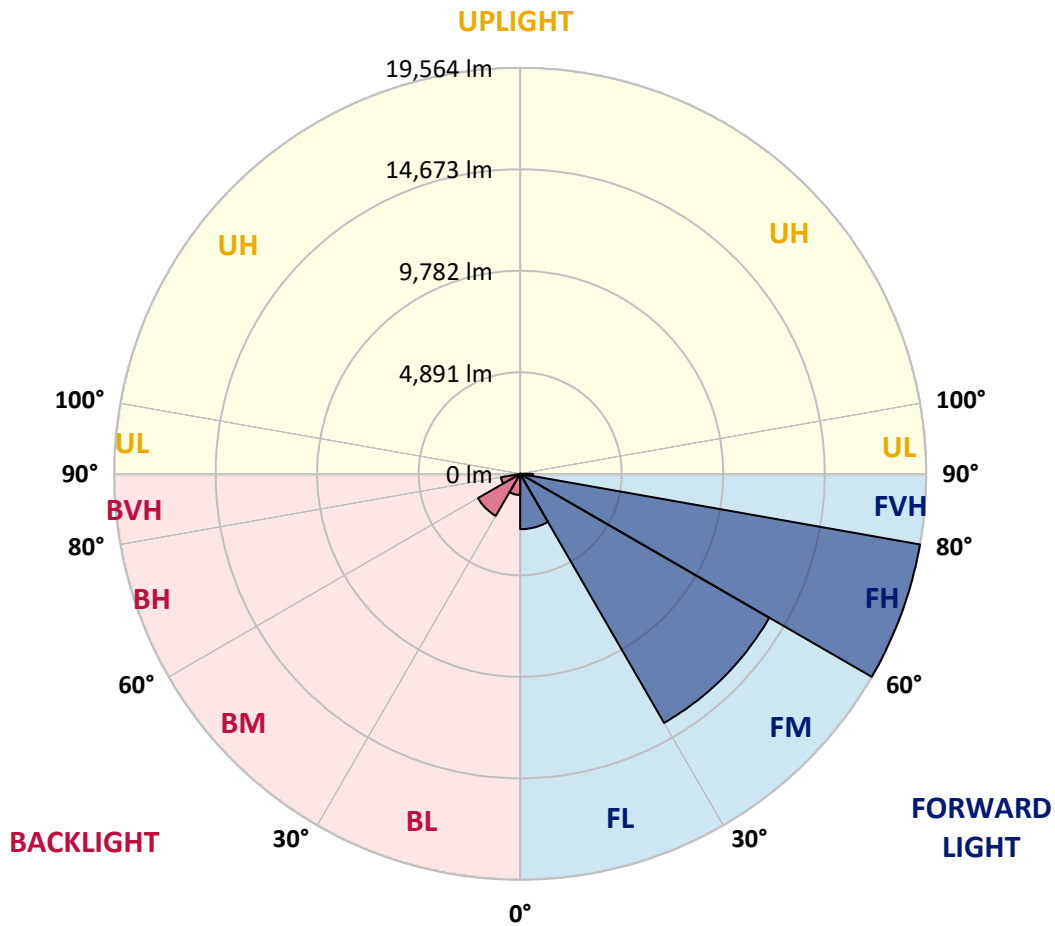
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2672.4	6.5			
FM (30°-60°)	13860.8	33.8			
FH (60°-80°)	19564.1	47.7			G5
FVH (80°-90°)	618.0	1.5			G4/750
BL (0°-30°)	1021.0	2.5	B3/2500		
BM (30°-60°)	2344.4	5.7	B2/2500		
BH (60°-80°)	940.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.2	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°	35°	45°	46°	55°	65°	75°
0°	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5
2.5°	4908.9	4917.3	4911.7	4878.1	4822.1	4791.3	4774.5	4718.5	4682.1	4617.7
5°	5359.8	5393.4	5373.8	5306.6	5200.2	5124.6	5102.2	4987.3	4883.7	4763.3
7.5°	5838.6	5855.4	5819.0	5732.2	5589.4	5460.6	5441.0	5281.4	5116.2	4931.3
10°	6253.1	6272.7	6216.7	6090.7	5928.2	5768.6	5740.6	5564.2	5368.2	5141.4
12.5°	6600.3	6619.9	6547.1	6395.9	6216.7	6051.5	6023.5	5838.6	5623.0	5371.0
15°	6863.5	6899.9	6801.9	6639.5	6446.3	6281.1	6267.1	6085.1	5875.0	5595.0
17.5°	7017.6	7054.0	6961.6	6765.5	6600.3	6460.3	6443.5	6292.3	6096.3	5827.4
20°	7042.8	7076.4	6978.4	6807.5	6670.3	6558.3	6549.9	6440.7	6297.9	6040.3
22.5°	6967.2	7009.2	6919.5	6782.3	6687.1	6628.3	6617.1	6555.5	6474.3	6255.9
25°	6888.7	6922.3	6855.1	6734.7	6684.3	6678.7	6687.1	6675.9	6659.1	6474.3
27.5°	6883.1	6919.5	6843.9	6729.1	6701.1	6759.9	6768.3	6821.5	6835.5	6673.1
30°	6930.7	6956.0	6883.1	6762.7	6748.7	6883.1	6885.9	6981.2	7003.6	6841.1
32.5°	7034.4	7062.4	6989.6	6813.1	6793.5	6981.2	6989.6	7115.6	7152.0	7020.4
35°	7278.0	7311.6	7227.6	6953.2	6883.1	7073.6	7098.8	7247.2	7320.0	7210.8
37.5°	7885.7	7787.6	7672.8	7236.0	7087.6	7219.2	7261.2	7434.8	7563.6	7437.6
40°	9395.0	9087.0	8728.5	7717.6	7446.0	7530.0	7563.6	7737.2	7913.7	7790.4
42.5°	11660.5	11296.4	10719.6	8826.6	7986.5	8028.5	8053.7	8204.9	8454.1	8356.1
45°	13679.5	13547.9	12959.8	10719.6	8997.4	8790.1	8821.0	8899.4	9266.2	9229.8
47.5°	15230.8	15155.2	14701.6	12892.6	10705.6	9722.7	9809.5	9845.9	10375.1	10503.9
50°	16423.8	16395.8	15989.7	14824.8	12937.4	11097.6	11128.4	11050.0	11842.5	12161.7
52.5°	17549.5	17644.7	17345.1	16619.8	15320.5	12898.2	12892.6	12523.0	13592.7	14074.3
55°	18566.0	18599.6	18630.4	18451.2	17717.5	14948.0	14894.8	14289.9	15622.9	16121.3
57.5°	19520.9	19534.9	19809.3	20176.2	20212.6	17149.1	17051.0	16325.8	17840.7	18196.4
60°	20162.2	20226.6	20806.2	21825.6	22270.8	19420.1	19366.9	18627.6	20097.8	20263.0
62.5°	19238.1	19630.1	21091.9	23113.7	24214.2	21937.6	21912.4	21217.9	22472.4	22338.0
65°	15572.5	16236.2	18806.8	23984.6	26121.2	24749.1	24785.5	24046.2	24911.5	24474.6
67.5°	10893.2	11593.3	14634.4	24054.6	28252.3	28050.6	28260.7	27101.3	27501.8	26521.7
70°	7532.8	7894.1	9873.9	22548.0	29912.8	32598.3	32592.7	30853.7	30078.0	27454.2
72.5°	5065.7	5253.4	6412.7	17888.3	28691.9	35300.6	35138.2	33721.2	30946.1	25676.0
75°	2136.6	2273.8	2968.3	10053.1	22699.3	32295.9	31856.2	29800.8	27496.2	20218.2
77.5°	677.7	736.5	1170.5	3598.4	12503.4	24275.8	23811.0	18610.8	18428.8	10142.7
80°	322.0	375.2	658.1	1445.0	4920.1	13203.4	13139.0	8442.9	7927.7	2738.7
82.5°	140.0	165.2	364.0	772.9	2201.0	4710.1	4805.3	2873.1	2377.5	1038.9
85°	44.8	58.8	168.0	355.6	929.7	1170.5	1156.5	683.3	957.7	565.7
87.5°	0.0	0.0	56.0	81.2	95.2	67.2	75.6	58.8	266.0	156.8
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°
4494.5	0°	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5
4550.5	2.5°	4516.9	4472.1	4393.7	4320.9	4256.5	4192.1	4152.8	4096.8	4091.2	4091.2
4623.3	5°	4547.7	4474.9	4334.9	4186.5	4015.6	3853.2	3690.8	3534.0	3483.6	3447.2
4740.9	7.5°	4637.3	4522.5	4301.3	4018.4	3693.6	3338.0	3088.7	2819.9	2716.3	2660.3
4897.7	10°	4766.1	4609.3	4273.3	3777.6	3251.2	2766.7	2411.1	2119.8	2007.8	1960.2
5068.5	12.5°	4908.9	4715.7	4222.9	3478.0	2766.7	2187.0	1839.8	1705.4	1688.6	1688.6
5273.0	15°	5079.7	4844.5	4136.0	3125.1	2259.8	1730.6	1607.4	1613.0	1629.8	1641.0
5471.8	17.5°	5256.2	4981.7	3998.8	2730.3	1811.8	1557.0	1559.8	1568.2	1582.2	1593.4
5687.4	20°	5446.6	5119.0	3816.8	2310.2	1554.2	1506.6	1515.0	1523.4	1534.6	1540.2
5889.0	22.5°	5651.0	5247.8	3601.2	1898.6	1467.4	1464.6	1467.4	1475.8	1489.8	1489.8
6124.3	25°	5869.4	5390.6	3354.8	1599.0	1422.6	1422.6	1428.2	1433.8	1445.0	1445.0
6351.1	27.5°	6093.5	5522.2	3094.3	1442.2	1383.3	1380.5	1380.5	1389.0	1394.6	1397.4
6575.1	30°	6339.9	5676.2	2833.9	1408.6	1352.5	1338.5	1330.1	1335.7	1341.3	1344.1
6810.3	32.5°	6591.9	5824.6	2601.5	1422.6	1321.7	1296.5	1268.5	1262.9	1262.9	1274.1
7054.0	35°	6871.9	5987.0	2422.3	1470.2	1304.9	1234.9	1190.1	1164.9	1167.7	1184.5
7345.2	37.5°	7208.0	6183.1	2290.6	1512.2	1293.7	1164.9	1092.1	1061.3	1041.7	1061.3
7745.6	40°	7647.6	6471.5	2195.4	1545.8	1279.7	1083.7	985.7	935.3	898.9	910.1
8367.3	42.5°	8294.5	6925.1	2159.0	1548.6	1248.9	988.5	876.5	809.3	756.1	758.9
9302.6	45°	9201.8	7642.0	2346.7	1512.2	1181.7	884.9	761.7	672.1	638.5	630.1
10700.0	47.5°	10445.1	8686.5	2780.7	1436.6	1083.7	784.1	649.7	574.1	548.9	534.9
12534.2	50°	12111.3	10027.9	3262.4	1352.5	985.7	688.9	557.3	509.7	492.9	478.9
14710.0	52.5°	14043.5	11388.8	3657.2	1268.5	887.7	604.9	498.5	470.5	456.4	445.2
16810.2	55°	15816.1	12326.9	3634.8	1178.9	792.5	537.7	456.4	439.6	422.8	411.6
18619.2	57.5°	16919.4	12458.5	2996.3	1080.9	683.3	484.5	417.2	406.0	386.4	372.4
20184.6	60°	17426.3	11708.1	2100.2	952.1	574.1	434.0	375.2	369.6	344.4	324.8
21665.9	62.5°	17518.7	10313.5	1400.2	792.5	478.9	386.4	333.2	324.8	291.2	257.6
22870.1	65°	17143.5	8319.7	968.9	618.9	408.8	336.0	285.6	268.8	232.4	198.8
23155.7	67.5°	15956.1	5841.4	674.9	445.2	347.2	266.0	226.8	221.2	193.2	165.2
21699.5	70°	13780.3	3329.6	450.8	333.2	274.4	182.0	179.2	184.8	156.8	134.4
17728.7	72.5°	10565.5	1523.4	280.0	243.6	187.6	123.2	142.8	145.6	120.4	100.8
11061.2	75°	6219.5	652.5	176.4	156.8	95.2	81.2	103.6	106.4	81.2	64.4
4043.6	77.5°	2117.0	246.4	112.0	92.4	47.6	44.8	67.2	67.2	44.8	25.2
812.1	80°	481.7	92.4	56.0	36.4	22.4	19.6	22.4	19.6	11.2	2.8
249.2	82.5°	137.2	36.4	22.4	14.0	8.4	8.4	2.8	0.0	0.0	0.0
86.8	85°	39.2	16.8	5.6	5.6	0.0	0.0	0.0	0.0	0.0	0.0
30.8	87.5°	16.8	2.8	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>
4494.5
4105.2
3464.0
2668.7
1960.2
1688.6
1641.0
1593.4
1543.0
1495.4
1447.8
1400.2
1349.7
1282.5
1192.9
1055.7
904.5
747.7
618.9
526.5
476.1
442.4
406.0
369.6
319.2
240.8
187.6
156.8
123.2
89.6
56.0
19.6
0.0
0.0
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0.0
0.0

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