

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: P941144

Luminaire Tested: **GALN-SB4C-750-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4C-750-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23188 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

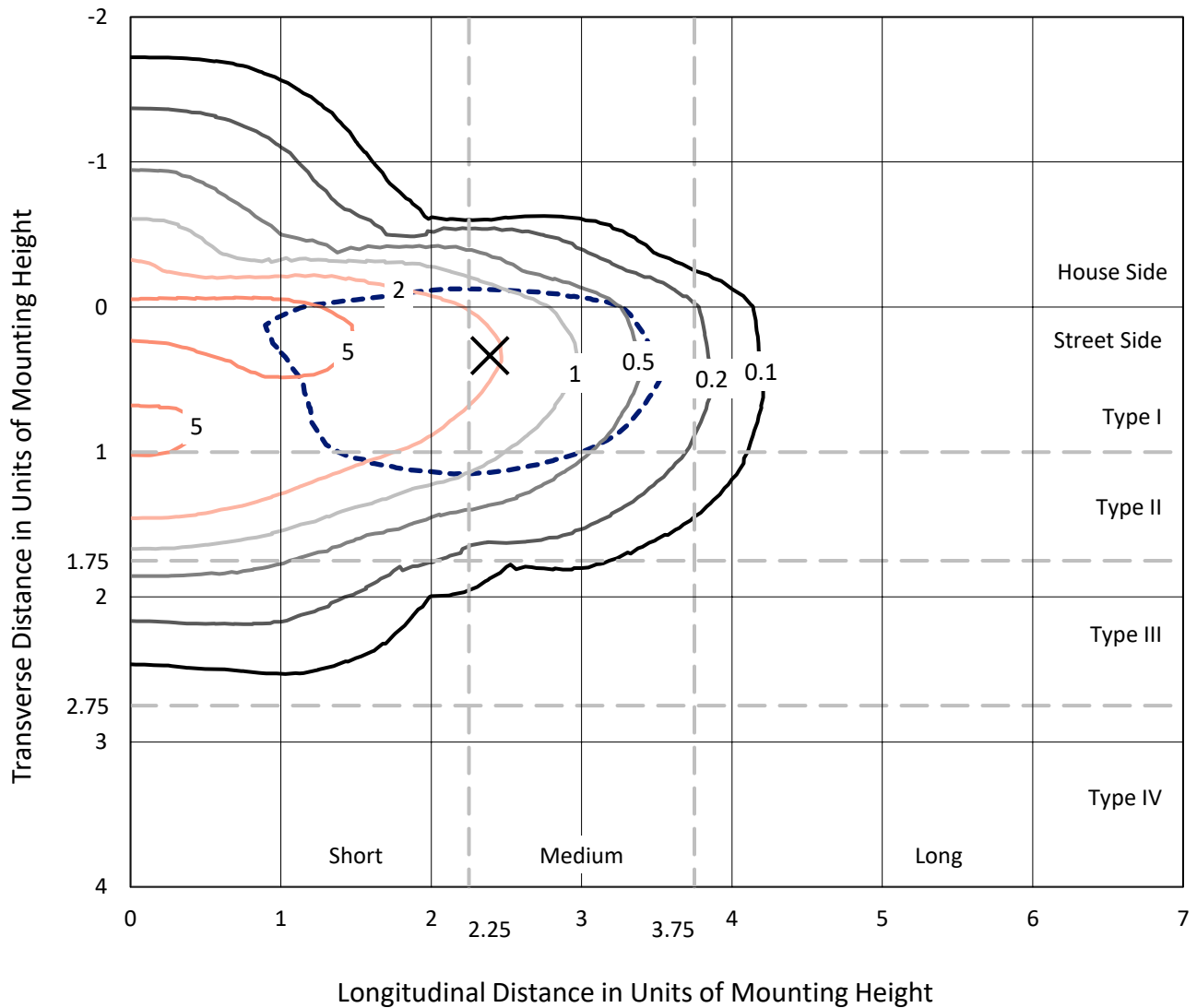
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

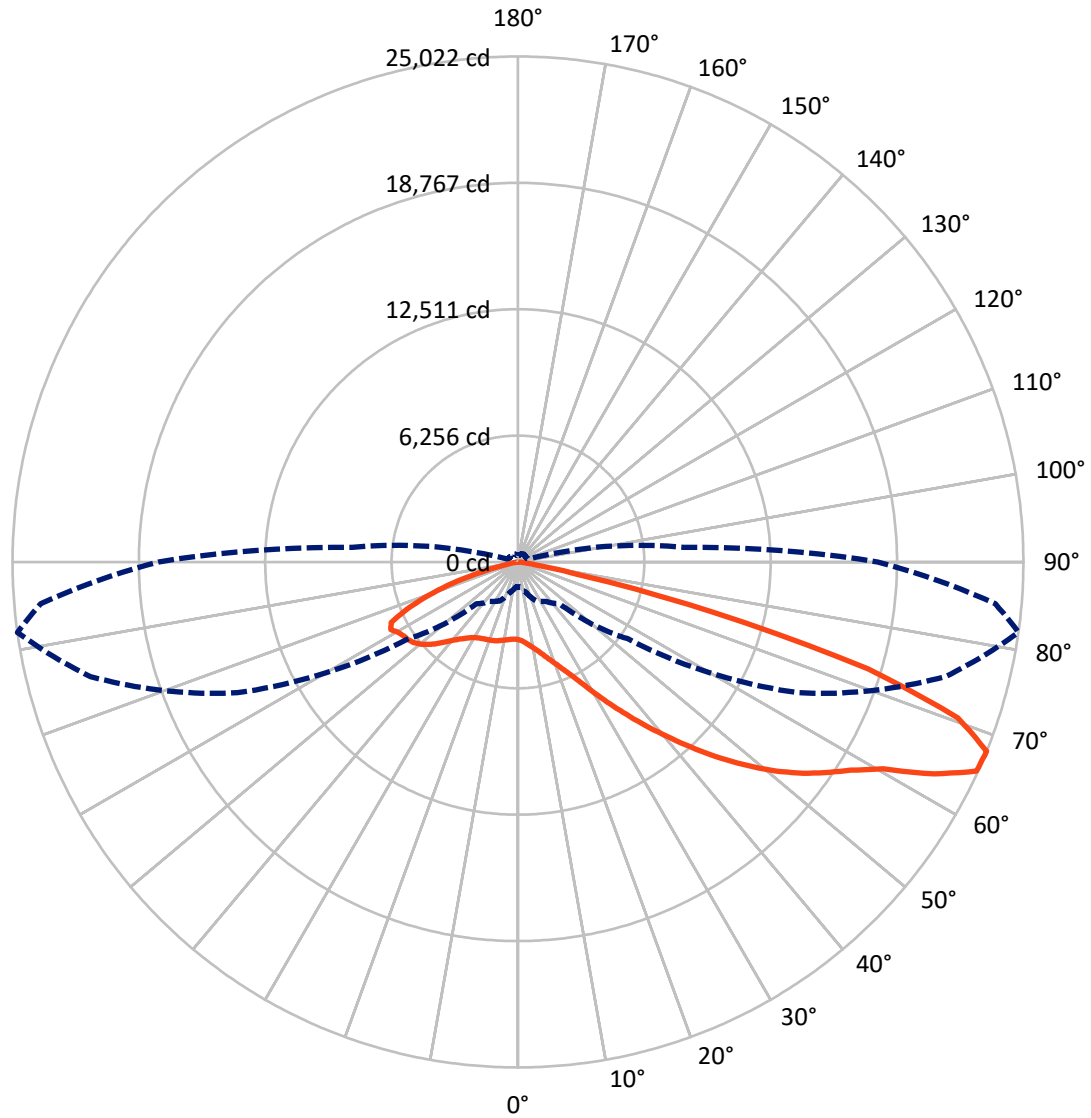
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4200.3	0.0	4200.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18987.7	0.0	18987.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	23188.0	0.0	23188.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.2	1.5
10°-20°	889.4	3.8
20°-30°	1424.5	6.1
30°-40°	2518.9	10.9
40°-50°	4413.4	19.0
50°-60°	5886.2	25.4
60°-70°	5479.7	23.6
70°-80°	2103.1	9.1
80°-90°	130.6	0.6
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°	23188.0	100.0
0°-180°	23188.0	100.0



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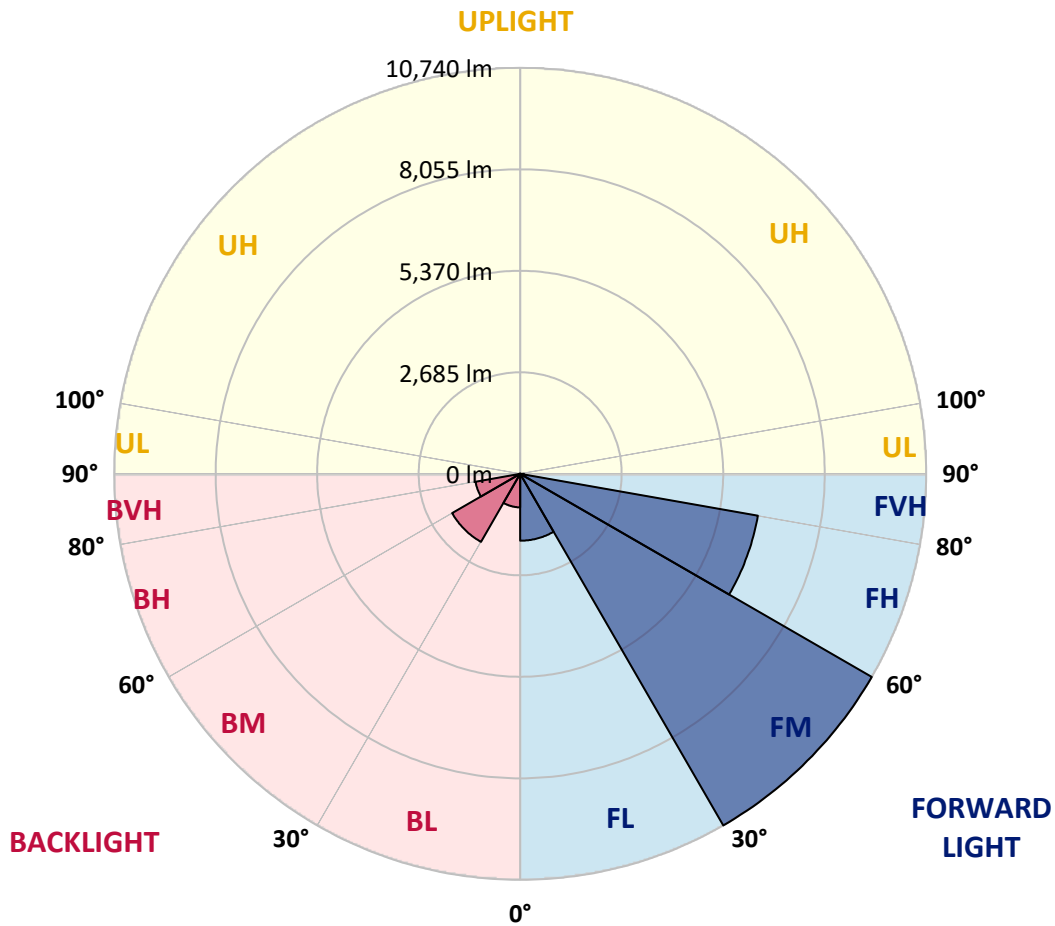
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1769.0	7.6			
FM (30°-60°)	10739.7	46.3			
FH (60°-80°)	6384.0	27.5			G3/7500
FVH (80°-90°)	95.0	0.4			G1/100
BL (0°-30°)	887.1	3.8	B2/1000		
BM (30°-60°)	2078.7	9.0	B2/2500		
BH (60°-80°)	1198.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	35.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3841.5	3841.5	3841.5	3841.5	3841.5	3841.5	3841.5	3841.5	3841.5	3841.5
2.5°	4060.2	4083.5	4070.2	4063.5	4051.8	4035.1	4021.8	3980.0	3936.6	3908.2
5°	4142.0	4165.3	4163.7	4170.4	4178.7	4183.7	4180.4	4133.6	4071.9	4023.4
7.5°	4071.9	4098.6	4120.3	4153.7	4212.1	4273.9	4303.9	4293.9	4230.5	4163.7
10°	3873.2	3901.6	3953.3	4031.8	4155.3	4288.9	4400.7	4452.5	4412.4	4339.0
12.5°	3509.2	3537.6	3639.5	3809.7	4016.8	4248.8	4462.5	4601.1	4611.1	4537.6
15°	3100.2	3128.6	3237.1	3450.8	3766.3	4138.6	4495.9	4758.0	4846.5	4783.1
17.5°	2846.5	2871.5	2953.3	3125.3	3454.1	3918.3	4484.2	4925.0	5127.0	5076.9
20°	2769.7	2791.4	2829.8	2950.0	3223.8	3689.5	4407.4	5081.9	5429.1	5400.8
22.5°	2851.5	2871.5	2883.2	2936.6	3108.6	3539.3	4310.6	5242.2	5779.7	5783.1
25°	3040.1	3060.2	3046.8	3080.2	3155.3	3492.5	4273.9	5430.8	6220.5	6257.2
27.5°	3350.6	3352.3	3320.6	3318.9	3330.6	3562.7	4312.3	5632.8	6776.4	6844.9
30°	3973.4	3948.3	3826.4	3694.6	3634.5	3773.0	4419.1	5871.6	7432.5	7554.4
32.5°	4933.3	4896.6	4672.9	4357.3	4040.1	4111.9	4611.1	6143.7	8147.0	8367.4
35°	5975.1	5965.0	5731.3	5262.2	4707.9	4594.4	4923.3	6500.9	8926.7	9277.3
37.5°	6943.4	6938.3	6804.8	6252.2	5577.7	5267.2	5424.1	6968.4	9761.4	10269.0
40°	7828.2	7843.2	7709.6	7215.5	6536.0	6130.3	6105.3	7546.0	10689.7	11349.1
42.5°	8592.8	8609.5	8474.3	8108.7	7482.6	7085.3	6941.7	8253.9	11596.2	12509.4
45°	9112.0	9215.5	9195.5	8903.3	8454.2	8041.9	7946.7	9142.1	12629.6	13739.8
47.5°	9258.9	9354.1	9504.3	9544.4	9270.6	8864.9	8978.4	10212.2	13674.7	14971.9
50°	8896.6	8985.1	9297.3	9713.0	9903.3	9778.1	9981.8	11359.1	14744.8	16200.6
52.5°	8182.1	8272.3	8666.3	9324.0	10100.3	10494.3	10988.5	12489.4	15781.6	17364.2
55°	7148.7	7243.9	7749.7	8494.3	9724.7	10789.8	11828.2	13617.9	16731.5	18411.0
57.5°	5743.0	5813.1	6339.0	7380.8	8779.8	10496.0	12447.6	14850.0	17626.3	19439.4
60°	3743.0	3804.7	4415.8	5577.7	7213.8	9514.4	12571.2	16224.0	18815.0	20776.6
62.5°	2489.2	2530.9	2893.2	3746.3	5080.2	7629.5	11848.3	17320.8	20557.9	23103.9
65°	1707.9	1749.6	2111.9	2706.2	3282.2	5046.8	9769.8	17175.6	22137.3	24952.0
67.5°	1218.7	1253.8	1561.0	2121.9	2375.7	2931.6	6622.8	15319.1	21910.2	25022.1
70°	873.1	893.2	1146.9	1652.8	1888.2	1761.3	3682.9	11716.4	19184.0	23105.6
72.5°	611.0	617.7	796.3	1258.8	1520.9	1285.5	1753.0	7811.5	14509.4	18135.5
75°	414.0	422.4	535.9	923.2	1220.4	981.7	928.2	4188.7	8517.7	10038.6
77.5°	253.8	257.1	345.6	631.1	913.2	747.9	597.7	1774.7	3295.5	3235.4
80°	143.6	143.6	220.4	392.3	622.7	482.5	419.0	754.6	1043.4	916.5
82.5°	80.1	81.8	160.3	243.7	412.4	285.5	230.4	348.9	450.8	399.0
85°	33.4	36.7	98.5	115.2	197.0	141.9	93.5	146.9	166.9	148.6
87.5°	3.3	5.0	30.1	21.7	23.4	28.4	13.4	28.4	23.4	23.4
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°
3841.5	0°	3841.5	3841.5	3841.5	3841.5	3841.5	3841.5	3841.5	3841.5	3841.5	3841.5
3898.2	2.5°	3866.5	3841.5	3778.0	3704.6	3607.7	3561.0	3497.6	3454.1	3417.4	3420.8
3995.1	5°	3941.6	3878.2	3736.3	3559.3	3339.0	3182.0	3015.1	2899.9	2806.4	2786.4
4128.6	7.5°	4045.1	3945.0	3696.2	3377.4	3005.1	2722.9	2470.8	2308.9	2193.7	2157.0
4290.6	10°	4178.7	4033.5	3644.5	3148.6	2612.7	2253.8	1983.3	1856.5	1778.0	1751.3
4480.9	12.5°	4334.0	4135.3	3576.0	2869.8	2208.7	1863.1	1691.2	1627.7	1602.7	1594.4
4714.6	15°	4529.3	4262.2	3472.5	2539.3	1866.5	1624.4	1550.9	1542.6	1545.9	1542.6
4995.1	17.5°	4761.3	4400.7	3303.9	2198.7	1636.1	1502.5	1475.8	1482.5	1490.8	1489.2
5308.9	20°	5015.1	4537.6	3088.5	1896.5	1479.2	1415.7	1400.7	1407.4	1414.0	1410.7
5671.2	22.5°	5303.9	4684.6	2849.8	1661.1	1374.0	1335.6	1318.9	1320.6	1320.6	1313.9
6130.3	25°	5649.5	4846.5	2599.4	1494.2	1293.8	1263.8	1243.8	1237.1	1227.1	1207.0
6687.9	27.5°	6061.9	5018.4	2359.0	1377.3	1230.4	1202.0	1178.7	1162.0	1136.9	1103.5
7357.4	30°	6526.0	5227.1	2155.3	1303.9	1180.3	1151.9	1125.2	1100.2	1063.5	1021.7
8127.0	32.5°	7071.9	5450.8	2006.7	1255.4	1135.2	1105.2	1073.5	1043.4	1003.4	961.6
8991.8	35°	7723.0	5721.3	1919.9	1222.1	1100.2	1060.1	1025.1	991.7	961.6	924.9
9931.7	37.5°	8429.2	6008.4	1893.2	1205.4	1076.8	1015.0	975.0	951.6	948.3	926.6
10948.4	40°	9202.2	6349.0	1913.2	1195.3	1051.8	971.6	928.2	923.2	931.6	893.2
12035.3	42.5°	10020.2	6753.0	1946.6	1183.7	1016.7	928.2	886.5	886.5	879.8	826.4
13183.9	45°	10905.0	7218.8	1980.0	1155.3	975.0	884.8	853.1	841.4	813.0	761.3
14339.1	47.5°	11796.5	7693.0	2005.0	1103.5	924.9	848.1	819.7	793.0	751.3	704.5
15472.7	50°	12643.0	8118.7	1978.3	1026.7	868.1	813.0	783.0	746.3	701.2	669.5
16546.2	52.5°	13399.2	8487.6	1864.8	936.6	808.0	776.3	749.6	711.2	674.5	641.1
17514.5	55°	14057.0	8786.5	1664.5	851.4	754.6	744.6	717.9	669.5	619.4	591.0
18474.4	57.5°	14688.1	9013.5	1414.0	781.3	706.2	709.5	669.5	626.1	579.3	549.3
19768.3	60°	15527.8	9317.4	1160.3	716.2	654.4	664.5	621.0	589.3	530.9	492.5
21987.0	62.5°	16870.1	9789.8	921.6	636.1	594.3	597.7	579.3	540.9	470.8	425.7
23631.4	65°	17935.2	9616.2	726.2	549.3	525.9	530.9	530.9	489.2	414.0	362.3
23719.9	67.5°	17815.0	8233.9	579.3	464.1	460.8	464.1	475.8	440.7	367.3	325.5
21913.6	70°	16411.0	6549.4	464.1	385.6	400.7	392.3	425.7	402.3	330.6	288.8
16988.6	72.5°	13390.9	4717.9	353.9	318.9	307.2	320.5	384.0	362.3	275.5	228.7
8998.5	75°	7824.8	2517.6	263.8	252.1	222.0	267.1	340.6	308.9	210.4	168.6
2758.0	77.5°	2547.6	878.1	193.7	185.3	165.3	215.4	290.5	260.4	172.0	133.6
808.0	80°	682.8	265.4	131.9	121.9	106.8	160.3	230.4	207.0	123.5	86.8
347.3	82.5°	273.8	111.9	76.8	68.4	58.4	110.2	182.0	166.9	91.8	55.1
108.5	85°	88.5	36.7	28.4	21.7	26.7	68.4	108.5	113.5	65.1	28.4
16.7	87.5°	11.7	5.0	5.0	6.7	5.0	11.7	33.4	31.7	18.4	3.3
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>
3841.5
3387.4
2741.3
2120.2
1731.2
1589.3
1540.9
1485.8
1409.0
1310.5
1203.7
1100.2
1018.4
963.3
921.6
924.9
894.8
826.4
759.6
702.8
664.5
637.7
587.7
545.9
487.5
422.4
357.3
318.9
283.8
223.7
163.6
128.5
85.1
55.1
21.7
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0.0

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