

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: P953877

Luminaire Tested: **GALN-SB7B-750-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-750-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35273 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

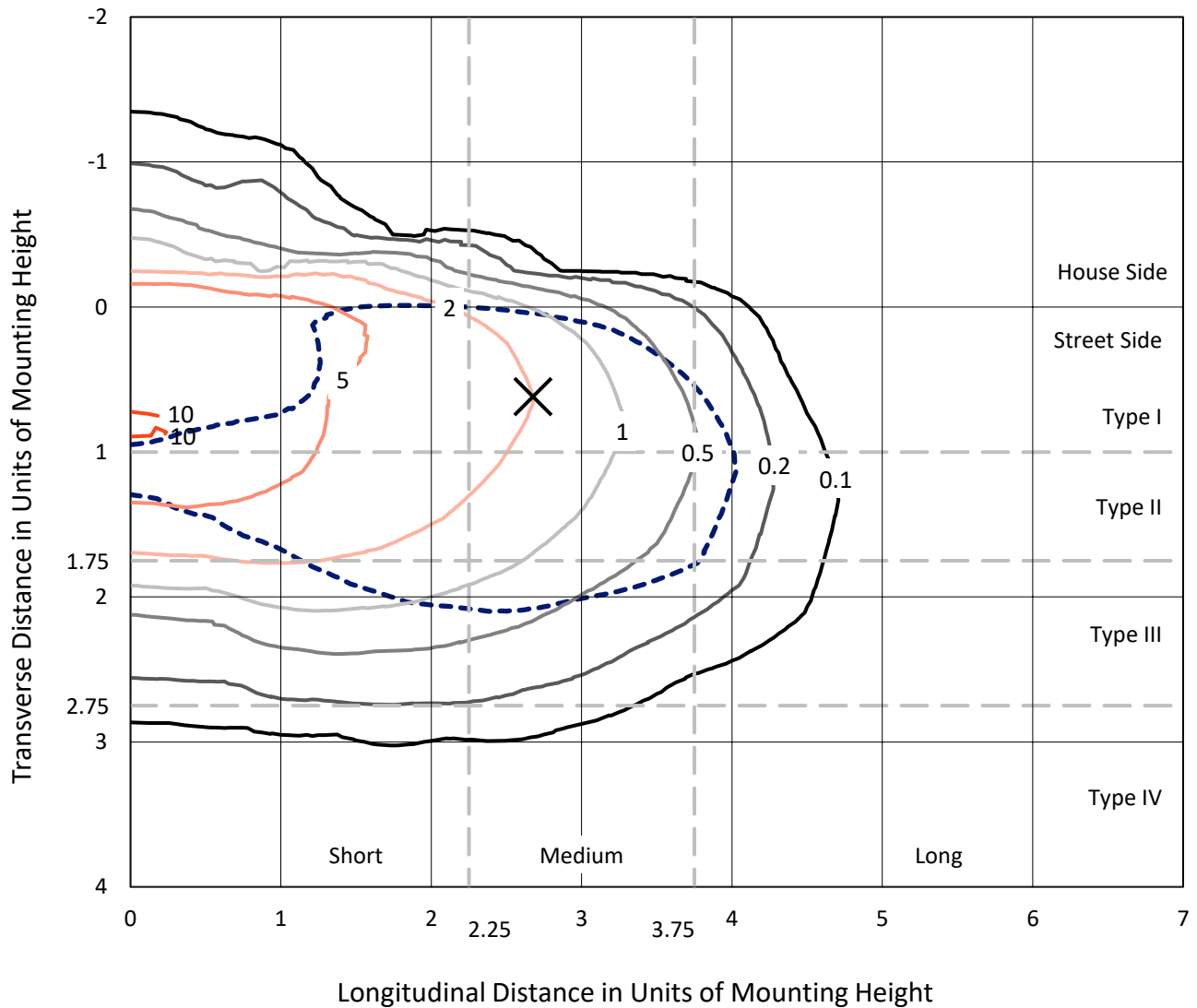
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

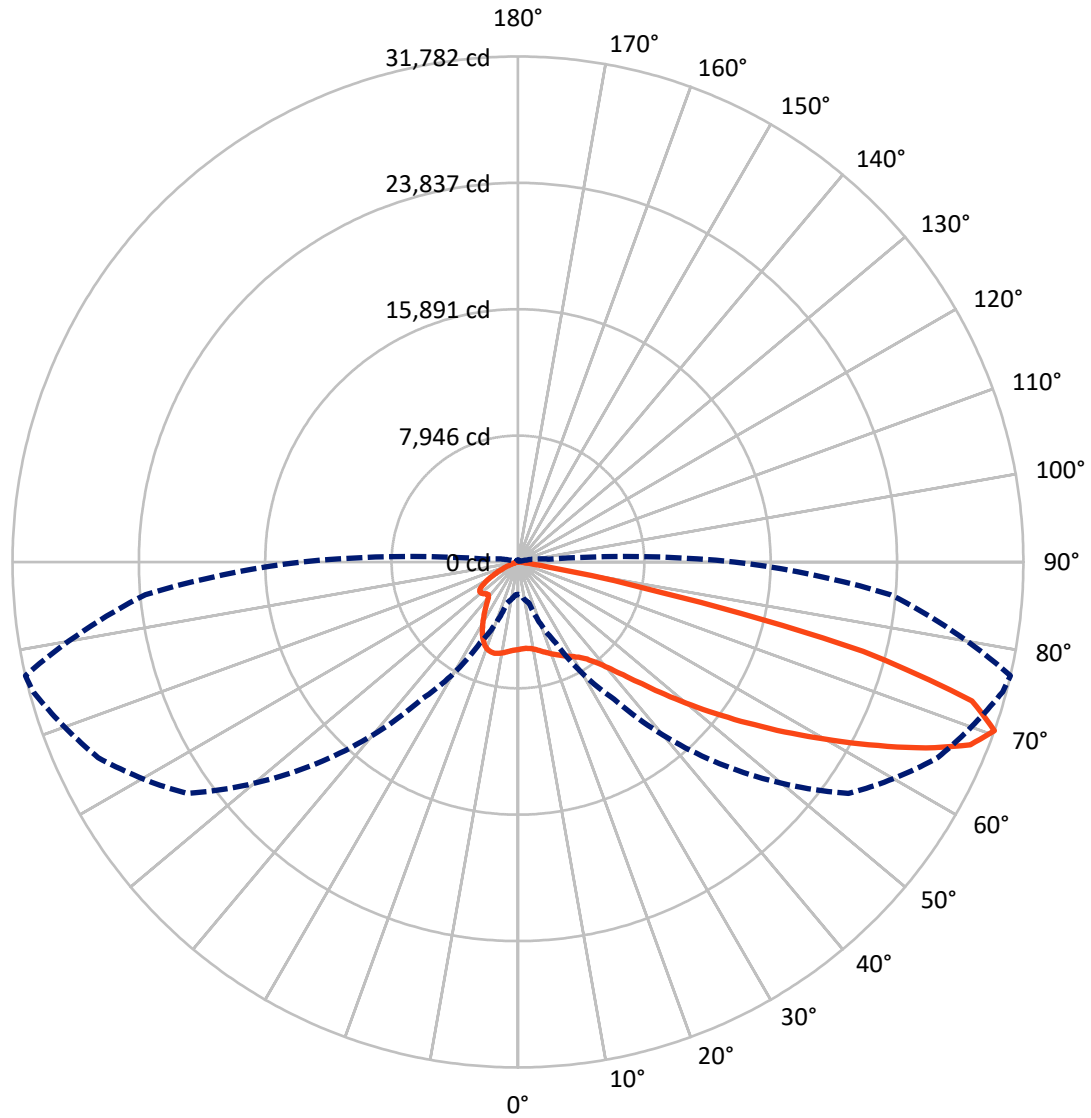
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3718.3	0.0	3718.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	31554.7	0.0	31554.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	35273.0	0.0	35273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.2	1.3
10°-20°	1125.7	3.2
20°-30°	1741.1	4.9
30°-40°	3159.3	9.0
40°-50°	5963.5	16.9
50°-60°	8616.8	24.4
60°-70°	9172.3	26.0
70°-80°	4860.7	13.8
80°-90°	159.6	0.5
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°	35273.0	100.0
0°-180°	35273.0	100.0

Coefficient of Utilization



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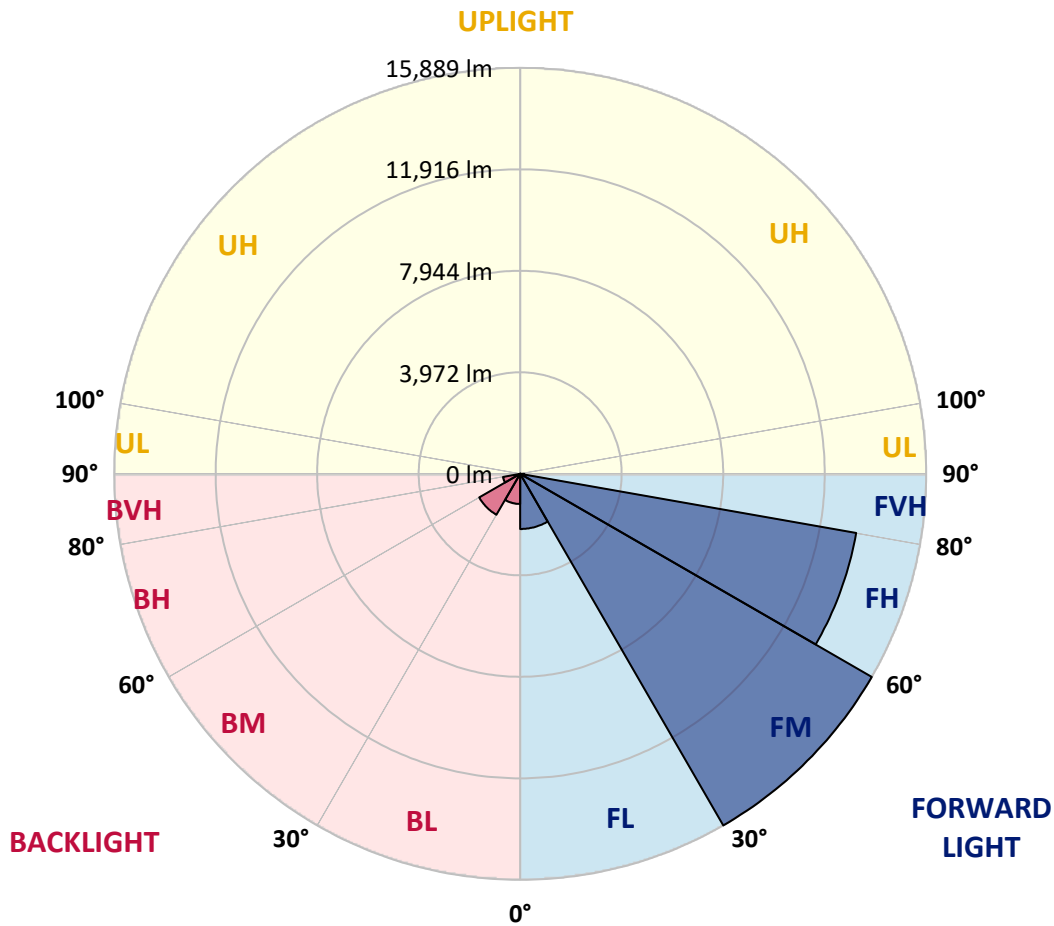
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2159.5	6.1			
FM (30°-60°)	15888.5	45.0			
FH (60°-80°)	13351.3	37.9			G5
FVH (80°-90°)	155.3	0.4			G2/225
BL (0°-30°)	1181.4	3.3	B3/2500		
BM (30°-60°)	1851.0	5.2	B2/2500		
BH (60°-80°)	681.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.3	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5502.0	5502.0	5502.0	5502.0	5502.0	5502.0	5502.0	5502.0	5502.0	5502.0
2.5°	5165.6	5212.4	5205.7	5236.9	5248.0	5292.6	5337.1	5397.3	5464.1	5461.9
5°	4873.8	4920.6	4931.7	4974.0	5027.5	5096.5	5187.9	5308.2	5432.9	5452.9
7.5°	4528.5	4577.5	4606.5	4691.1	4789.1	4931.7	5081.0	5256.9	5464.1	5493.0
10°	4183.3	4227.8	4265.7	4386.0	4541.9	4753.5	4996.3	5250.2	5528.7	5571.0
12.5°	3969.4	4011.7	4054.1	4158.8	4352.6	4610.9	4940.6	5281.4	5635.6	5695.7
15°	3893.7	3931.6	3965.0	4058.5	4239.0	4533.0	4929.5	5346.0	5771.5	5851.7
17.5°	3904.8	3924.9	3947.1	4018.4	4194.4	4497.3	4949.5	5457.4	5931.9	6003.1
20°	3969.4	3980.6	3982.8	4031.8	4187.7	4492.9	4989.6	5564.3	6083.3	6179.1
22.5°	4051.8	4056.3	4051.8	4085.3	4230.0	4526.3	5043.1	5693.5	6252.6	6341.7
25°	4437.2	4352.6	4245.6	4181.0	4301.3	4590.9	5123.3	5867.3	6437.5	6524.4
27.5°	5633.4	5390.6	5007.4	4577.5	4448.3	4684.5	5234.6	6043.2	6624.6	6702.6
30°	7575.8	7257.2	6606.8	5637.8	4920.6	4880.5	5379.4	6219.2	6822.9	6907.5
32.5°	9522.6	9444.6	8694.0	7353.0	5983.1	5317.1	5620.0	6457.6	7085.7	7152.5
35°	11491.7	11333.6	10718.8	9393.4	7620.3	6205.8	6021.0	6769.4	7431.0	7506.7
37.5°	12999.8	12904.0	12523.1	11431.6	9562.7	7578.0	6707.0	7252.8	7932.2	8016.8
40°	14331.8	14287.3	14158.1	13438.6	11734.5	9373.4	7774.0	8001.2	8627.1	8727.4
42.5°	15378.7	15483.4	15556.9	15356.5	13973.2	11422.7	9208.5	9052.6	9596.1	9698.6
45°	16450.2	16485.8	16782.1	17071.6	16196.2	13565.5	10825.7	10284.4	10801.2	10928.2
47.5°	17138.5	17281.0	17802.3	18312.4	18065.1	15690.6	12563.2	11739.0	12197.8	12436.2
50°	17189.7	17459.2	18176.5	19065.3	19426.1	17713.2	14452.1	13396.2	13884.1	14146.9
52.5°	16336.6	16755.3	17866.9	19167.7	20161.2	19426.1	16405.6	15053.5	15679.4	16022.5
55°	12525.3	13073.3	16701.9	18610.9	20190.2	20724.8	18307.9	16779.8	17679.8	18067.3
57.5°	10912.6	11188.8	13131.2	17644.1	19653.3	21248.2	20027.5	18423.7	19856.0	20337.2
60°	9079.3	9442.4	11012.8	16062.6	18924.9	21299.5	21546.7	20544.3	22215.0	22756.2
62.5°	6170.2	6564.5	8126.0	13345.0	17929.2	21275.0	22791.9	22727.3	24836.7	25418.1
65°	3822.4	4069.7	5098.8	10897.0	16537.0	21301.7	24095.0	25378.0	27603.3	28193.6
67.5°	3020.5	3134.1	3670.9	8366.5	14138.0	20700.3	25395.8	27870.6	30207.3	30675.0
70°	2029.3	2098.3	2670.8	5608.9	10518.3	17924.8	25371.3	29122.5	31548.2	31782.1
72.5°	1069.2	1122.7	1561.5	2597.3	6352.9	12741.4	21386.3	27625.6	30214.0	29862.0
75°	534.6	623.7	1051.4	1318.7	2713.1	7105.8	13280.4	21780.6	23780.9	22417.7
77.5°	405.4	490.1	868.7	868.7	944.5	2392.3	5624.5	11879.3	10957.1	9123.9
80°	258.4	334.1	759.6	657.1	394.3	608.1	1465.7	3327.9	2327.7	1770.9
82.5°	151.5	218.3	632.6	434.4	220.5	225.0	414.3	708.3	603.7	470.0
85°	60.1	142.6	434.4	171.5	86.9	55.7	124.7	151.5	124.7	93.6
87.5°	0.0	33.4	75.7	0.0	6.7	4.5	8.9	11.1	11.1	8.9
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°
5502.0	0°	5502.0	5502.0	5502.0	5502.0	5502.0	5502.0	5502.0	5502.0	5502.0	5502.0
5506.4	2.5°	5526.5	5530.9	5544.3	5546.5	5515.3	5475.2	5459.6	5452.9	5426.2	5424.0
5542.0	5°	5593.3	5613.3	5593.3	5535.4	5397.3	5203.5	5056.4	4936.2	4827.0	4793.6
5664.6	7.5°	5726.9	5747.0	5686.8	5459.6	5112.1	4726.8	4379.3	4134.3	3913.7	3831.3
5813.8	10°	5918.5	5945.2	5755.9	5297.0	4682.2	4063.0	3474.9	3060.6	2737.6	2606.2
6016.5	12.5°	6159.1	6170.2	5793.8	5049.8	4123.1	3238.8	2405.7	1962.4	1675.1	1568.2
6261.5	15°	6424.1	6408.5	5798.2	4713.4	3361.3	2289.9	1570.4	1289.7	1173.9	1138.3
6506.6	17.5°	6702.6	6638.0	5709.1	4227.8	2526.0	1565.9	1165.0	1098.2	1078.1	1069.2
6749.4	20°	6976.6	6831.8	5546.5	3593.0	1813.2	1169.4	1058.1	1038.0	1026.9	1022.4
6994.4	22.5°	7226.0	6978.8	5268.1	2855.7	1316.5	1033.6	1000.2	982.3	962.3	953.4
7232.7	25°	7468.8	7063.4	4876.0	2167.4	1053.6	966.7	940.0	906.6	879.9	868.7
7488.9	27.5°	7705.0	7116.9	4386.0	1603.8	940.0	904.4	855.4	808.6	788.5	784.1
7762.9	30°	7956.7	7134.7	3829.1	1196.2	871.0	826.4	755.1	701.7	690.5	692.8
8132.6	32.5°	8264.1	7161.4	3267.8	980.1	813.0	732.9	648.2	592.5	583.6	592.5
8671.7	35°	8631.6	7214.9	2726.5	902.1	761.8	637.1	545.7	499.0	490.1	496.7
9362.2	37.5°	9130.6	7301.8	2220.8	886.5	719.5	556.9	458.9	421.0	421.0	423.2
10208.7	40°	9794.4	7533.4	1768.6	875.4	697.2	496.7	387.6	372.0	378.7	383.1
11286.8	42.5°	10603.0	8025.7	1463.5	862.0	672.7	470.0	351.9	345.3	356.4	360.9
12578.8	45°	11509.5	8649.4	1356.6	839.8	650.4	487.8	336.4	327.4	340.8	343.0
14026.6	47.5°	12447.3	9259.8	1343.2	815.3	628.2	514.6	331.9	311.9	327.4	329.7
15572.5	50°	13396.2	9658.5	1356.6	777.4	592.5	514.6	334.1	296.3	309.6	316.3
17176.3	52.5°	14351.9	9841.1	1347.6	695.0	530.1	483.4	334.1	282.9	296.3	300.7
18909.3	55°	15278.5	9805.5	1211.8	572.5	450.0	427.7	325.2	271.8	280.7	282.9
20546.6	57.5°	16011.3	9308.8	960.1	445.5	365.3	356.4	296.3	258.4	265.1	262.8
22047.9	60°	16394.5	8217.3	686.1	343.0	287.3	280.7	260.6	240.6	245.0	233.9
23319.8	62.5°	16398.9	6773.9	458.9	271.8	229.4	222.8	222.8	216.1	211.6	189.3
24304.4	65°	16049.2	5172.3	305.2	216.1	184.9	173.7	187.1	184.9	169.3	138.1
24605.1	67.5°	15256.2	3390.3	231.7	169.3	142.6	135.9	149.2	155.9	144.8	115.8
23509.1	70°	13625.7	1973.6	191.6	131.4	106.9	100.2	120.3	133.7	120.3	93.6
20094.4	72.5°	11318.0	1064.8	155.9	98.0	73.5	66.8	95.8	109.1	95.8	69.1
12892.8	75°	7344.1	570.2	120.3	64.6	37.9	42.3	71.3	80.2	66.8	44.6
3784.5	77.5°	2465.9	251.7	75.7	31.2	17.8	17.8	42.3	49.0	31.2	15.6
688.3	80°	550.2	104.7	31.2	13.4	6.7	6.7	8.9	8.9	4.5	0.0
211.6	82.5°	180.4	42.3	13.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0
53.5	85°	69.1	15.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.8	87.5°	26.7	2.2	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

180°
5502.0
5428.4
4773.6
3797.9
2550.5
1534.8
1138.3
1067.0
1018.0
951.1
864.3
779.6
692.8
590.3
494.5
421.0
383.1
360.9
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331.9
318.5
300.7
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