

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: P944438

Luminaire Tested: **GALN-SB9B-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944438
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-SB9B-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 450mA 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: 37145 lumens
Efficiency: N/A
Efficacy: 112.7 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

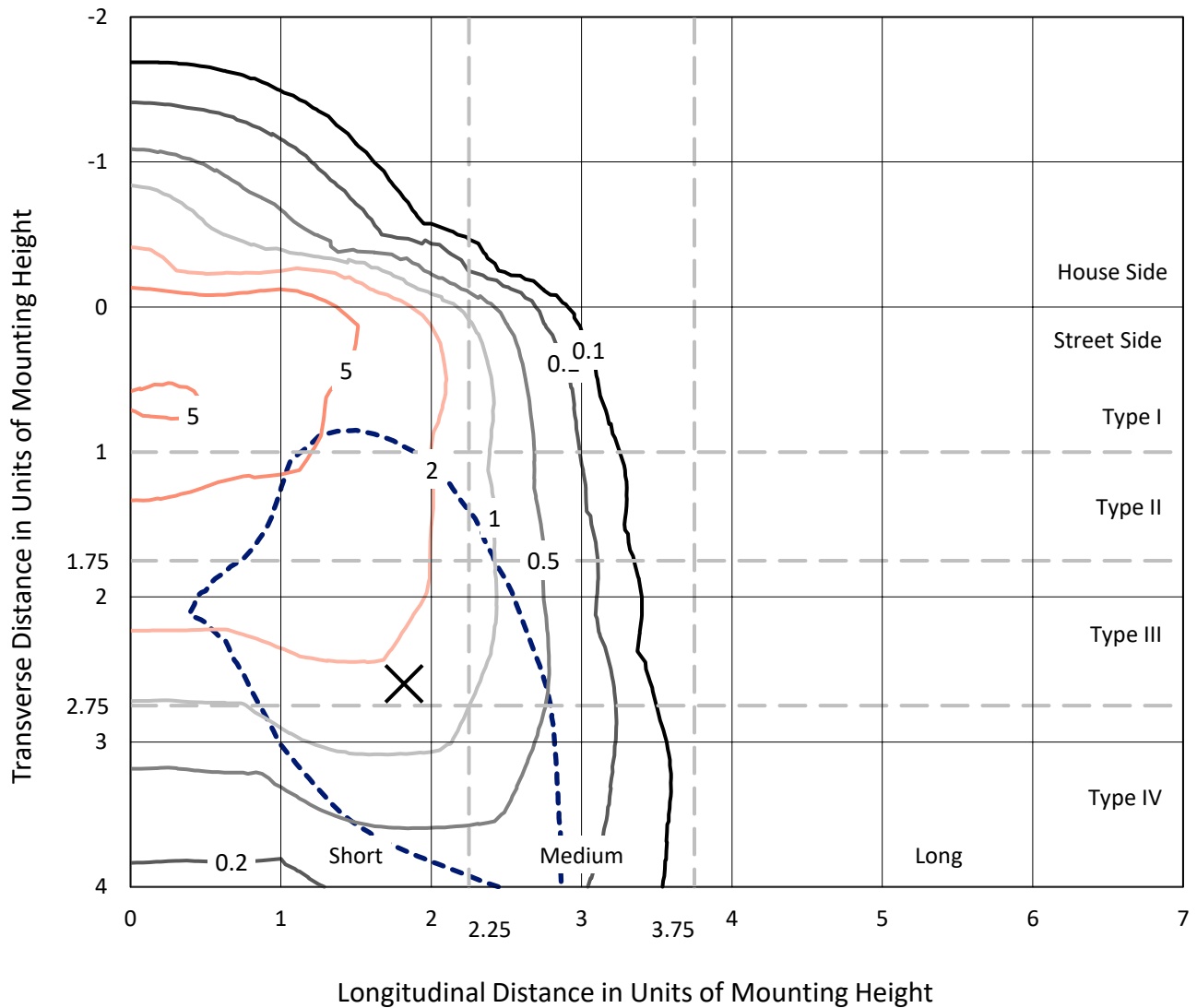
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

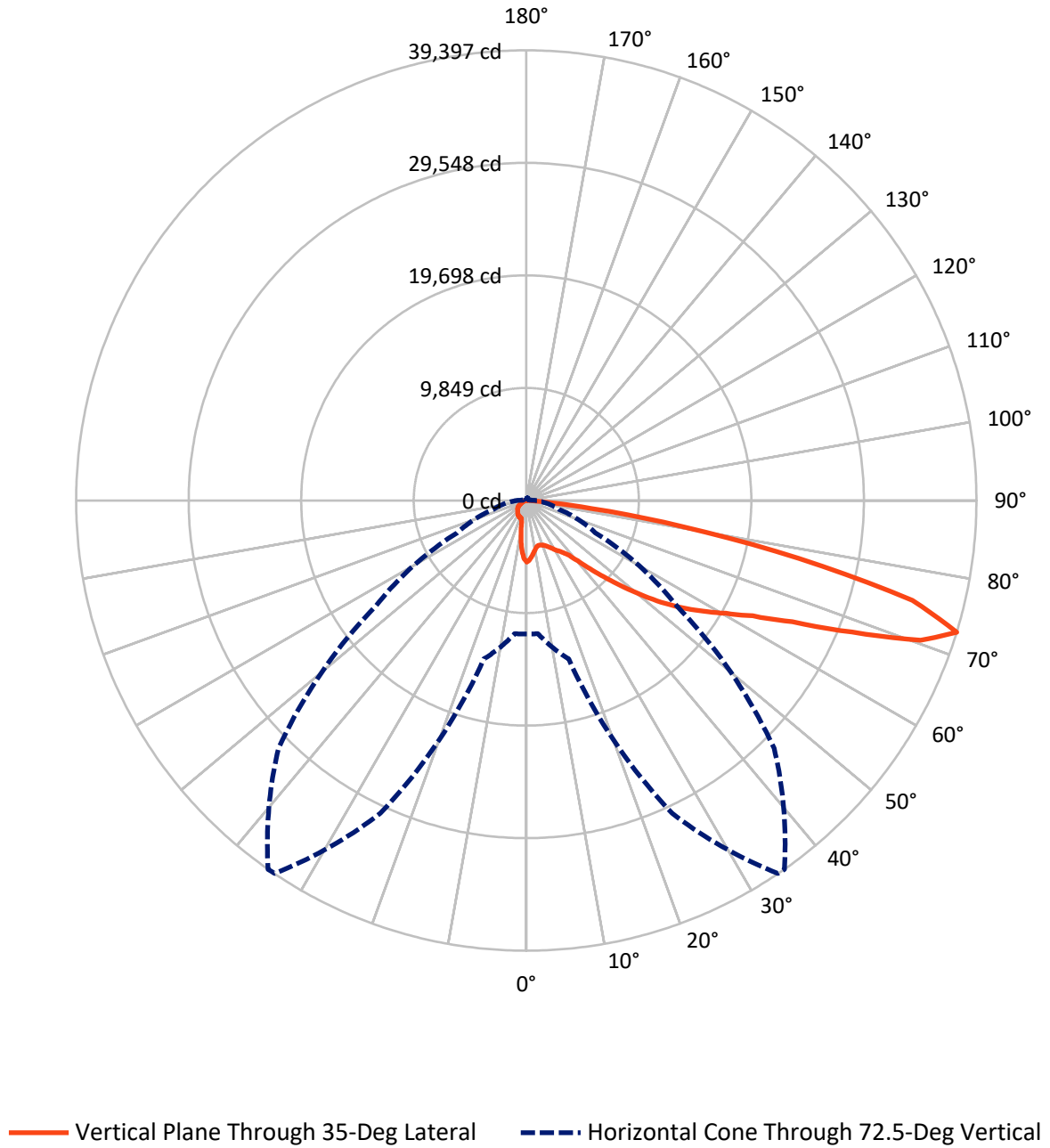
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	4180.5	0.0	4180.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	32964.5	0.0	32964.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	37145.0	0.0	37145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.4	1.2
10°-20°	1034.9	2.8
20°-30°	1681.2	4.5
30°-40°	2805.0	7.6
40°-50°	5307.2	14.3
50°-60°	8433.1	22.7
60°-70°	10432.3	28.1
70°-80°	6484.8	17.5
80°-90°	524.1	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°	37145.0	100.0
0°-180°	37145.0	100.0

Coefficient of Utilization



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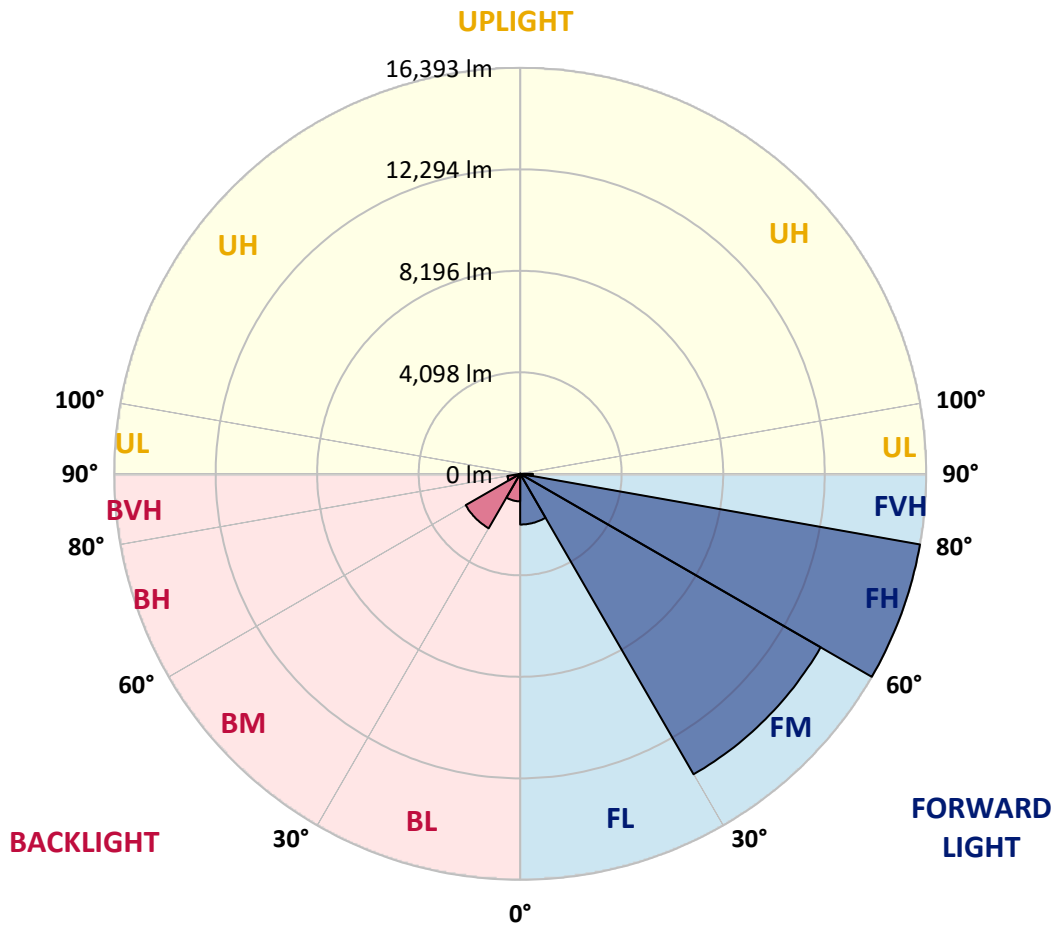
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2047.6	5.5			
FM (30°-60°)	14007.4	37.7			
FH (60°-80°)	16392.5	44.1			G5
FVH (80°-90°)	516.9	1.4			G4/750
BL (0°-30°)	1110.8	3.0	B3/2500		
BM (30°-60°)	2537.9	6.8	B3/5000		
BH (60°-80°)	524.6	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.1	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°	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6
2.5°	5144.0	5187.6	5195.8	5209.4	5209.4	5225.7	5252.9	5291.0	5353.6	5386.3
5°	4741.2	4773.9	4814.7	4847.4	4910.0	4918.1	5024.3	5127.7	5272.0	5380.8
7.5°	4335.7	4373.8	4428.2	4507.2	4588.8	4613.3	4773.9	4948.1	5176.7	5380.8
10°	4049.9	4052.6	4101.6	4180.6	4311.2	4341.1	4537.1	4784.8	5070.6	5348.2
12.5°	3889.3	3908.4	3930.2	3990.0	4115.2	4134.3	4343.9	4635.1	4964.4	5329.1
15°	3889.3	3902.9	3916.6	3946.5	4047.2	4063.5	4248.6	4539.8	4910.0	5337.3
17.5°	3930.2	3951.9	3941.0	3976.4	4082.6	4093.5	4256.8	4512.6	4907.3	5389.0
20°	4028.1	4044.5	4022.7	4044.5	4150.6	4172.4	4341.1	4564.3	4953.5	5478.8
22.5°	4183.3	4191.4	4139.7	4156.1	4264.9	4292.1	4488.1	4711.3	5065.1	5623.1
25°	4379.2	4395.6	4316.6	4335.7	4439.1	4471.8	4697.7	4931.8	5242.0	5821.8
27.5°	4605.1	4613.3	4545.3	4542.5	4675.9	4722.2	4950.8	5203.9	5478.8	6072.2
30°	4863.7	4888.2	4822.9	4812.0	4980.7	5018.8	5244.7	5538.7	5827.2	6447.7
32.5°	5067.8	5086.9	5048.8	5076.0	5247.5	5277.4	5601.3	6012.3	6374.3	6981.2
35°	5361.8	5372.7	5285.6	5334.6	5530.5	5606.7	6088.5	6676.4	7062.9	7650.7
37.5°	6426.0	6426.0	6055.8	5813.6	6001.4	6069.4	6755.3	7511.9	7912.0	8548.9
40°	7898.4	7873.9	7332.3	6837.0	6812.5	6945.8	7705.2	8565.2	9008.9	9626.7
42.5°	9468.9	9430.7	8693.2	8203.3	8121.6	8167.9	8802.0	9863.5	10315.3	10941.3
45°	10862.4	10851.5	10176.5	9517.8	9370.9	9517.8	10171.1	11382.2	11706.1	12364.8
47.5°	12030.0	12030.0	11537.4	11107.3	11031.1	11118.2	12024.5	13067.0	13037.0	13880.8
50°	13374.5	13363.6	12895.5	12710.4	12789.3	12911.8	14158.4	14841.5	14414.2	15369.5
52.5°	14316.2	14381.6	14221.0	14191.0	14593.8	14806.1	16324.9	16578.0	15647.2	16782.1
55°	15062.0	15138.2	15323.3	15532.8	16308.5	16586.1	18423.3	18224.6	16678.7	18006.9
57.5°	16118.0	16009.1	16294.9	16708.6	17963.3	18298.1	20456.4	19778.7	17508.8	19000.3
60°	17399.9	17416.3	17465.3	17987.8	19615.4	20045.4	22459.6	21248.4	18042.3	19610.0
62.5°	18940.4	18964.9	19065.6	19868.5	21833.6	22239.1	24593.4	22451.4	18287.2	19438.5
65°	18834.3	18937.7	20061.8	22808.0	25205.8	25605.9	27083.8	23295.2	17917.1	17870.8
67.5°	17157.7	17326.4	19207.2	26319.0	30290.0	30736.3	30094.0	23461.2	16319.4	13897.1
70°	14958.6	15018.4	17280.2	29476.2	36177.1	36628.9	32788.5	21634.9	12383.8	7751.4
72.5°	11681.6	11695.2	14348.9	30208.3	39372.4	39396.9	30673.7	16060.9	6660.0	2977.6
75°	8344.8	8263.1	9610.4	24498.2	34639.3	34916.9	22995.8	7533.7	2544.8	1407.1
77.5°	4474.5	4564.3	5438.0	14528.5	23929.3	24402.9	12547.1	2171.9	1295.5	958.0
80°	1382.6	1458.8	2229.1	6651.9	13554.1	13839.9	4651.4	966.2	903.6	683.2
82.5°	435.5	451.8	1039.7	2795.2	5625.8	5756.4	1347.2	547.1	617.8	451.8
85°	125.2	127.9	462.7	1042.4	1390.8	1418.0	378.3	212.3	353.8	280.3
87.5°	13.6	43.5	174.2	174.2	122.5	119.8	40.8	46.3	100.7	35.4
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°
5383.6	0°	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6
5408.1	2.5°	5394.4	5397.2	5361.8	5301.9	5236.6	5182.1	5114.1	5059.7	5021.6	5010.7
5457.0	5°	5432.5	5413.5	5312.8	5130.4	4912.7	4724.9	4515.3	4349.3	4240.4	4194.2
5508.8	7.5°	5489.7	5435.3	5214.8	4855.5	4439.1	4069.0	3693.4	3402.1	3217.1	3124.5
5557.7	10°	5538.7	5429.8	5051.5	4458.2	3821.3	3260.6	2754.4	2403.3	2207.3	2114.8
5614.9	12.5°	5585.0	5427.1	4839.2	3987.3	3124.5	2438.7	1967.8	1793.6	1739.2	1720.1
5707.4	15°	5672.1	5435.3	4572.5	3448.4	2430.5	1842.6	1671.1	1668.4	1679.3	1673.9
5849.0	17.5°	5791.8	5443.4	4270.4	2876.9	1875.3	1624.9	1616.7	1641.2	1657.5	1649.4
6025.9	20°	5947.0	5476.1	3949.2	2310.7	1611.3	1570.4	1589.5	1611.3	1624.9	1611.3
6262.7	22.5°	6164.7	5533.3	3598.1	1856.2	1526.9	1537.8	1554.1	1578.6	1592.2	1573.2
6564.8	25°	6431.4	5623.1	3252.5	1614.0	1486.1	1499.7	1524.2	1551.4	1567.7	1548.7
6945.8	27.5°	6777.1	5767.3	2934.0	1559.5	1445.2	1453.4	1488.8	1529.6	1551.4	1526.9
7487.4	30°	7277.9	6004.1	2659.1	1584.0	1420.7	1401.7	1450.7	1507.8	1532.3	1510.6
8225.0	32.5°	7942.0	6338.9	2490.4	1622.1	1409.8	1341.8	1388.1	1461.6	1502.4	1488.8
9188.5	35°	8812.9	6847.8	2425.0	1665.7	1401.7	1279.2	1311.9	1390.8	1461.6	1475.2
10402.4	37.5°	9868.9	7555.5	2444.1	1684.7	1377.2	1227.5	1243.8	1311.9	1404.4	1448.0
11768.7	40°	11069.2	8380.2	2553.0	1665.7	1350.0	1183.9	1186.7	1238.4	1320.0	1385.4
13238.4	42.5°	12307.6	9343.7	2754.4	1594.9	1325.5	1145.8	1137.7	1173.1	1227.5	1273.8
14705.4	45°	13486.1	10334.4	2953.1	1496.9	1295.5	1107.7	1088.7	1102.3	1113.2	1132.2
16134.3	47.5°	14514.9	11031.1	2895.9	1407.1	1254.7	1064.2	1031.5	1026.1	993.4	990.7
17410.8	50°	15225.3	11183.5	2572.0	1317.3	1194.8	1015.2	963.5	930.8	873.7	846.5
18366.1	52.5°	15451.2	10582.0	2101.2	1227.5	1096.9	949.9	876.4	824.7	753.9	729.4
18915.9	55°	15151.8	9403.5	1679.3	1118.6	960.8	862.8	781.1	713.1	655.9	626.0
18975.8	57.5°	14419.7	7903.9	1328.2	990.7	816.5	764.8	683.2	615.1	566.1	536.2
18311.7	60°	13205.8	6276.3	1050.6	838.3	696.8	658.7	574.3	530.7	487.2	451.8
16597.0	62.5°	11363.2	4479.9	824.7	664.1	582.4	538.9	489.9	457.2	405.5	356.5
13513.3	65°	8867.4	2740.8	636.9	487.2	468.1	446.4	416.4	386.5	323.9	274.9
8815.6	67.5°	5593.1	1298.3	454.5	367.4	370.2	359.3	345.7	321.2	274.9	231.3
3949.2	70°	2463.2	628.7	299.4	280.3	274.9	274.9	285.8	277.6	234.1	193.2
1371.7	72.5°	838.3	337.5	223.2	212.3	198.7	196.0	239.5	231.3	187.8	149.7
683.2	75°	438.2	225.9	163.3	152.4	119.8	144.3	190.5	179.6	133.4	98.0
451.8	77.5°	285.8	160.6	111.6	98.0	68.0	95.3	141.5	125.2	78.9	49.0
296.7	80°	179.6	106.1	65.3	46.3	32.7	51.7	76.2	54.4	29.9	10.9
174.2	82.5°	95.3	54.4	24.5	16.3	13.6	16.3	19.1	13.6	5.4	0.0
89.8	85°	38.1	19.1	8.2	5.4	2.7	0.0	5.4	2.7	0.0	0.0
16.3	87.5°	13.6	2.7	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°
5383.6
5029.7
4210.5
3138.1
2117.5
1714.7
1671.1
1646.6
1608.5
1570.4
1545.9
1526.9
1507.8
1488.8
1475.2
1458.8
1407.1
1292.8
1143.1
988.0
849.2
726.7
626.0
530.7
443.6
348.4
266.7
225.9
185.1
141.5
89.8
43.5
8.2
0.0
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