

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: P954818

Luminaire Tested: **GALN-SB7D-950-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954818  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-950-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

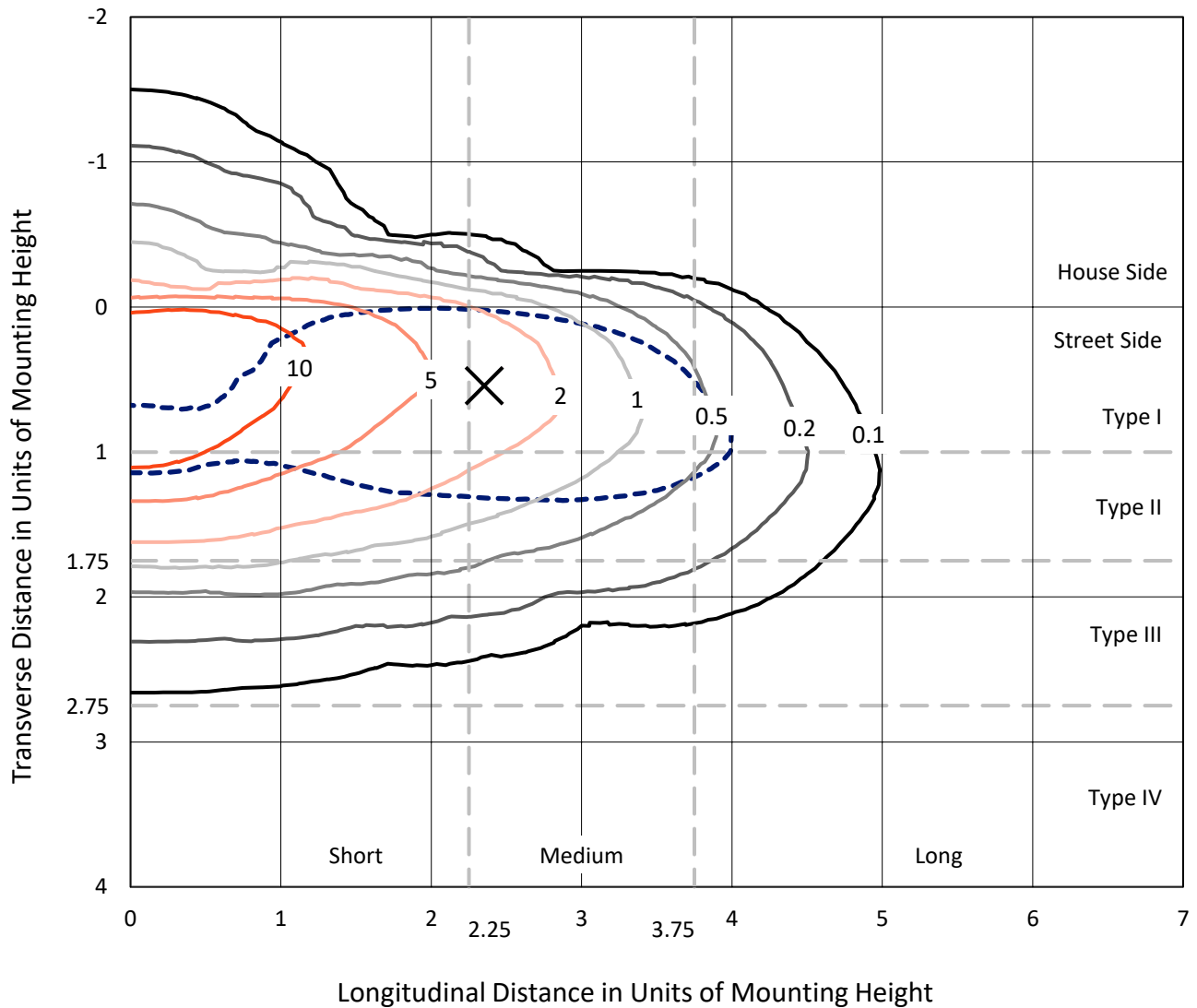
Lumens per Lamp: N/A  
Luminaire Lumens: 42625 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

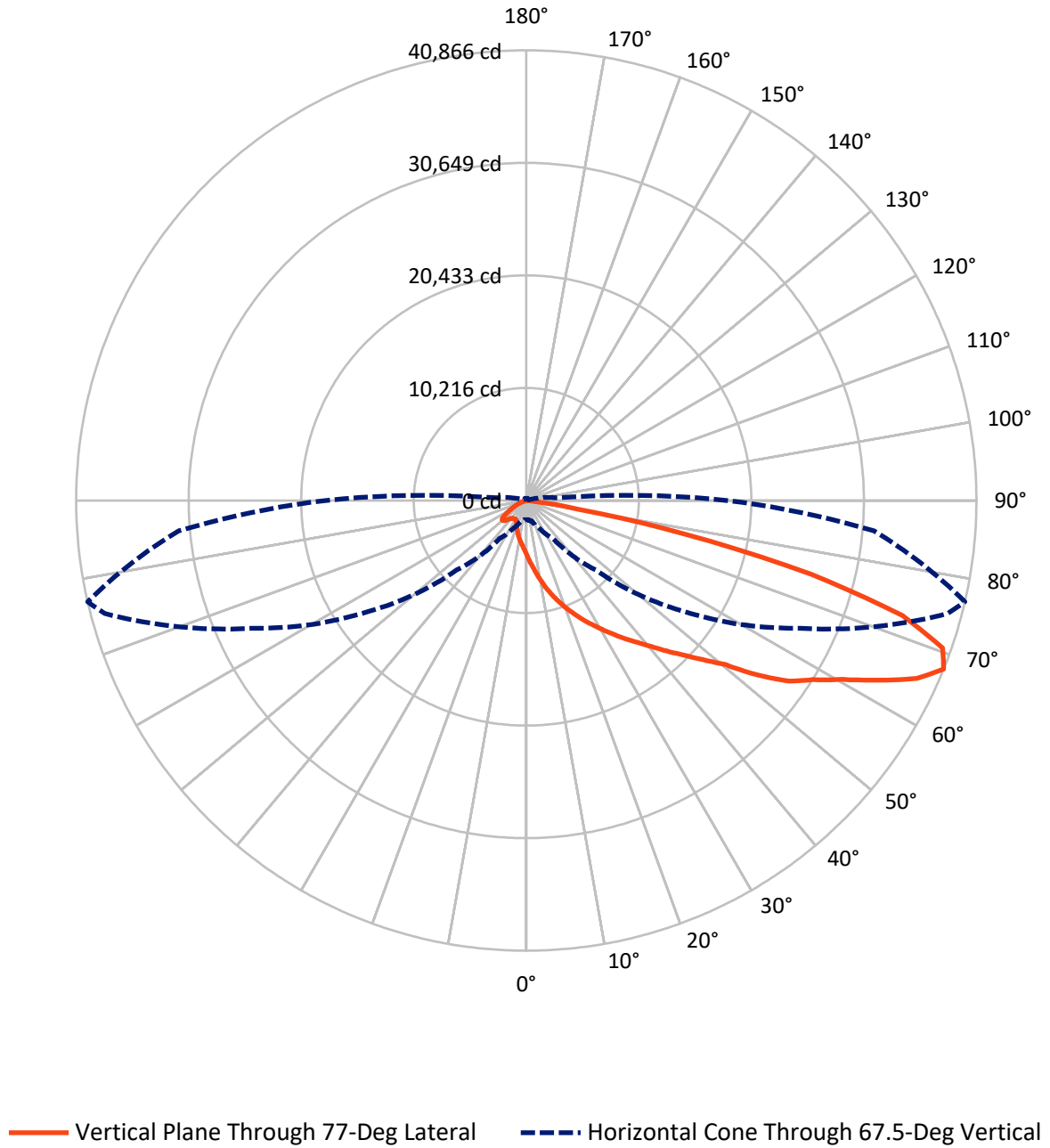
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3135.9	0.0	3135.9
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	39489.1	0.0	39489.1
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	42625.0	0.0	42625.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	501.7	1.2
10°-20°	1756.8	4.1
20°-30°	3390.2	8.0
30°-40°	5885.6	13.8
40°-50°	8545.6	20.0
50°-60°	9813.6	23.0
60°-70°	8520.0	20.0
70°-80°	4013.0	9.4
80°-90°	198.5	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°	42625.0	100.0
0°-180°	42625.0	100.0

**Coefficient of Utilization**



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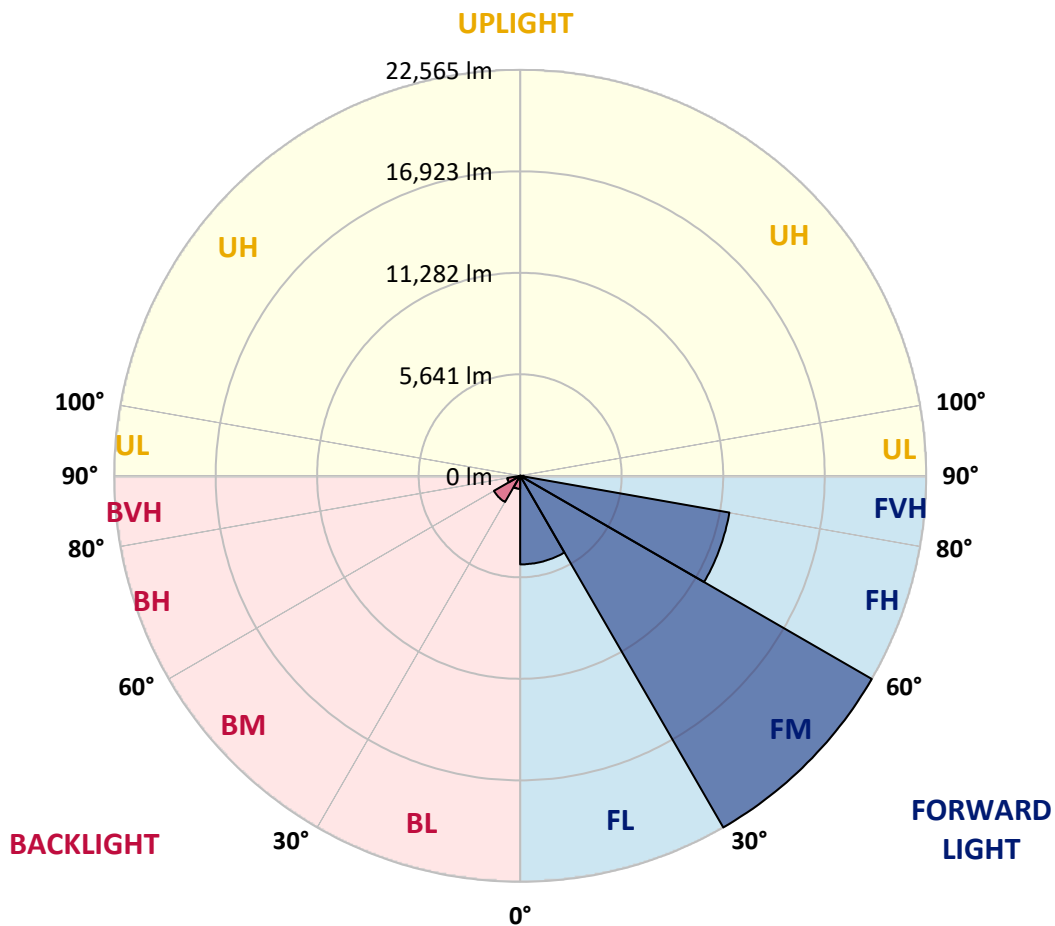
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4922.7	11.5			
FM (30°-60°)	22564.5	52.9			
FH (60°-80°)	11807.0	27.7			G4/12000
FVH (80°-90°)	194.8	0.5			G2/225
BL (0°-30°)	726.0	1.7	B2/1000		
BM (30°-60°)	1680.3	3.9	B2/2500		
BH (60°-80°)	726.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4915.3	4915.3	4915.3	4915.3	4915.3	4915.3	4915.3	4915.3	4915.3	4915.3
2.5°	6805.2	6847.5	6786.6	6670.2	6495.5	6381.7	6103.7	5841.7	5550.5	5457.9
5°	8295.4	8332.4	8263.6	8136.6	7903.6	7681.3	7316.0	6768.1	6199.0	6016.4
7.5°	9399.1	9420.3	9393.8	9277.4	9055.0	8803.6	8396.0	7747.5	6903.1	6701.9
10°	10193.2	10262.0	10254.1	10209.1	10060.9	9857.0	9423.0	8684.5	7691.9	7432.5
12.5°	10719.9	10796.7	10841.7	10942.3	10934.3	10804.6	10423.5	9642.6	8478.0	8173.6
15°	10873.5	10955.5	11127.6	11360.5	11566.9	11633.1	11365.8	10582.3	9343.5	8954.5
17.5°	10786.1	10913.2	11119.6	11487.5	11940.2	12239.3	12210.1	11490.2	10129.7	9685.0
20°	10979.3	11101.1	11262.5	11572.2	12099.0	12641.6	12858.6	12358.4	10910.5	10444.7
22.5°	12048.7	12027.5	12043.4	12093.7	12408.7	12946.0	13393.3	13147.1	11683.4	11207.0
25°	13742.7	13647.4	13485.9	13213.3	13133.9	13393.3	13859.2	13845.9	12498.7	11987.8
27.5°	15685.5	15669.6	15291.1	14634.7	14264.1	14163.5	14385.9	14526.2	13306.0	12760.7
30°	17546.3	17588.6	17077.8	16347.2	15667.0	15272.6	15071.4	15172.0	14126.5	13594.5
32.5°	19166.2	19211.2	18655.3	17800.4	16958.7	16482.2	16058.7	15809.9	15021.1	14441.5
35°	20534.6	20579.6	19941.7	18996.8	18099.5	17668.0	17189.0	16508.7	15921.1	15381.1
37.5°	21757.5	21744.3	20889.3	19936.4	19055.0	18713.6	18462.1	17368.9	16847.5	16326.1
40°	22480.1	22535.7	21805.1	20754.3	19899.4	19650.6	19634.7	18435.6	17916.9	17411.3
42.5°	22691.9	22789.8	22260.4	21397.5	20622.0	20352.0	20767.6	19589.7	19160.9	18668.6
45°	22310.7	22406.0	22165.1	21566.9	21114.3	20939.6	21741.6	20786.1	20489.6	20002.6
47.5°	21199.0	21318.1	21376.3	21249.3	21244.0	21421.3	22615.1	22046.0	22067.2	21569.6
50°	19047.1	19248.2	19782.9	20232.9	20929.0	21802.5	23464.7	23411.8	23845.9	23417.1
52.5°	15135.0	15420.8	17263.1	18493.9	20058.2	21731.0	24399.1	25603.4	26966.6	26339.3
55°	12162.5	12162.5	13660.6	15963.4	18358.9	21259.9	24806.7	27027.5	29092.1	28943.8
57.5°	9915.3	10034.4	10989.9	13025.4	15899.9	20137.6	25058.2	27922.1	30804.6	30696.1
60°	6119.6	6376.4	8181.6	10190.6	13102.1	18139.2	24899.4	28827.4	32882.4	32969.8
62.5°	3446.3	3541.5	4346.2	7331.9	10187.9	15452.6	23684.4	29332.9	35539.9	35910.5
65°	2379.6	2427.2	2736.9	4563.3	7061.9	12302.8	21310.2	29017.9	38202.7	38951.7
67.5°	1728.4	1752.2	1945.5	2787.2	4190.0	8920.0	17588.6	27429.8	39613.5	40865.5
70°	1328.7	1344.6	1484.9	1831.7	2474.8	5505.5	12773.9	24272.1	38591.8	40087.3
72.5°	1079.9	1095.8	1204.3	1355.2	1641.1	3255.7	7742.2	19711.4	34081.5	35696.1
75°	910.5	931.7	1029.6	1127.6	1286.4	2091.0	3631.5	13726.8	25629.9	26688.7
77.5°	505.6	465.9	836.4	934.4	1085.2	1323.4	1699.3	8078.3	14354.1	14647.9
80°	315.0	325.6	664.4	751.7	833.8	667.0	778.2	3110.1	4976.2	4727.4
82.5°	18.5	42.4	510.9	542.6	571.7	285.9	293.8	1056.1	1199.0	1101.1
85°	0.0	0.0	232.9	187.9	198.5	82.1	84.7	246.2	161.5	174.7
87.5°	0.0	0.0	0.0	5.3	0.0	7.9	15.9	21.2	7.9	10.6
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°
4915.3	0°	4915.3	4915.3	4915.3	4915.3	4915.3	4915.3	4915.3	4915.3	4915.3	4915.3
5166.7	2.5°	4981.5	4796.2	4420.3	4052.4	3753.3	3475.4	3276.9	3088.9	2993.6	2988.3
5500.3	5°	5132.3	4743.2	3991.5	3327.2	2792.5	2363.7	2085.8	1887.2	1786.7	1752.2
5910.5	7.5°	5344.1	4759.1	3615.7	2691.9	2061.9	1694.0	1535.2	1471.7	1450.5	1426.7
6373.7	10°	5611.4	4796.2	3279.5	2167.8	1625.2	1439.9	1376.4	1349.9	1334.0	1318.2
6895.2	12.5°	5910.5	4830.6	2946.0	1799.9	1429.3	1334.0	1289.0	1257.3	1236.1	1217.6
7429.8	15°	6201.7	4851.8	2599.3	1543.1	1328.7	1252.0	1204.3	1169.9	1140.8	1119.6
7953.9	17.5°	6490.2	4880.9	2273.7	1389.6	1246.7	1169.9	1122.3	1079.9	1056.1	1032.3
8504.5	20°	6810.5	4875.6	1966.6	1281.1	1164.6	1087.9	1037.6	997.9	974.1	947.6
9086.8	22.5°	7106.9	4849.1	1696.7	1188.5	1079.9	1005.8	950.2	910.5	886.7	865.5
9682.4	25°	7448.4	4827.9	1471.7	1103.8	1000.5	926.4	865.5	828.5	802.0	783.5
10280.6	27.5°	7776.6	4796.2	1307.6	1027.0	923.8	852.3	794.1	751.7	727.9	714.7
10897.3	30°	8099.5	4788.2	1246.7	952.9	854.9	783.5	725.2	685.5	667.0	661.7
11574.9	32.5°	8488.6	4809.4	1273.2	926.4	791.4	720.0	664.4	635.3	616.7	616.7
12329.2	35°	8904.2	4804.1	1312.9	950.2	749.1	656.4	614.1	595.6	577.0	577.0
13165.7	37.5°	9425.6	4812.1	1344.6	989.9	733.2	603.5	579.7	555.8	545.3	545.3
14081.5	40°	10203.8	5074.1	1328.7	1024.3	727.9	566.4	518.8	510.9	502.9	502.9
15116.4	42.5°	11156.7	5643.2	1349.9	1027.0	725.2	540.0	476.4	492.3	473.8	471.1
16283.7	45°	12199.6	6265.2	1484.9	971.4	722.6	526.7	455.3	473.8	444.7	444.7
17636.3	47.5°	13234.5	6881.9	1622.5	892.0	714.7	524.1	436.7	426.2	418.2	420.9
19399.1	50°	14661.2	7384.8	1675.5	783.5	696.1	518.8	402.3	405.0	399.7	405.0
21884.6	52.5°	16214.9	7490.7	1612.0	661.7	643.2	502.9	378.5	389.1	386.4	391.7
23634.1	55°	17183.7	7376.9	1331.4	550.6	561.1	439.4	354.7	375.9	375.9	375.9
25344.0	57.5°	18184.2	6892.5	944.9	447.3	465.9	360.0	333.5	362.6	360.0	357.3
27403.3	60°	18904.1	6109.0	622.0	367.9	370.6	296.5	309.7	341.4	338.8	325.6
29526.1	62.5°	19441.5	5243.5	399.7	312.3	283.2	267.3	283.2	309.7	299.1	270.0
31326.0	65°	19380.6	4044.5	307.0	267.3	232.9	232.9	246.2	270.0	238.2	190.6
31670.1	67.5°	18250.4	2736.9	254.1	225.0	195.9	193.2	203.8	225.0	203.8	161.5
29907.3	70°	16230.8	1789.3	203.8	174.7	156.2	142.9	164.1	193.2	172.0	129.7
25460.5	72.5°	13173.6	1090.5	153.5	127.1	113.8	92.6	129.7	158.8	137.6	95.3
17705.1	75°	8523.0	555.8	105.9	82.1	60.9	55.6	95.3	119.1	95.3	58.2
7856.0	77.5°	3261.0	232.9	58.2	37.1	31.8	26.5	52.9	71.5	39.7	13.2
1522.0	80°	627.3	97.9	29.1	18.5	15.9	10.6	7.9	5.3	0.0	0.0
270.0	82.5°	108.5	31.8	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
52.9	85°	37.1	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.5	87.5°	13.2	0.0	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°
4915.3
2983.1
1747.0
1421.4
1312.9
1212.3
1117.0
1029.6
944.9
862.9
780.8
714.7
659.1
616.7
577.0
545.3
502.9
468.5
444.7
420.9
405.0
391.7
375.9
357.3
325.6
264.7
185.3
156.2
124.4
90.0
50.3
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