

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: P954824

Luminaire Tested: **GALN-SB7D-950-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954824  
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-SB7D-950-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

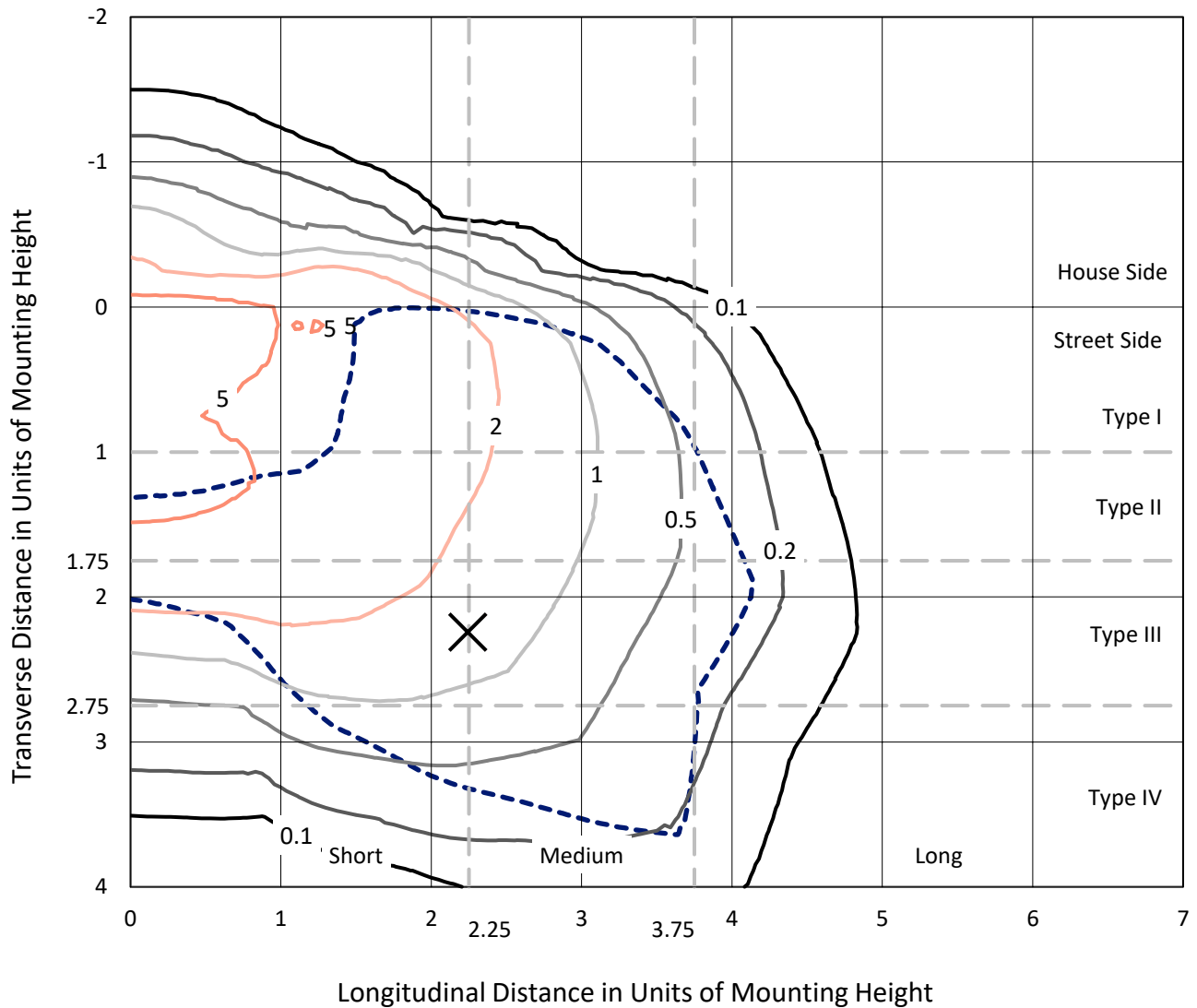
Lumens per Lamp: N/A  
Luminaire Lumens: 38779 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

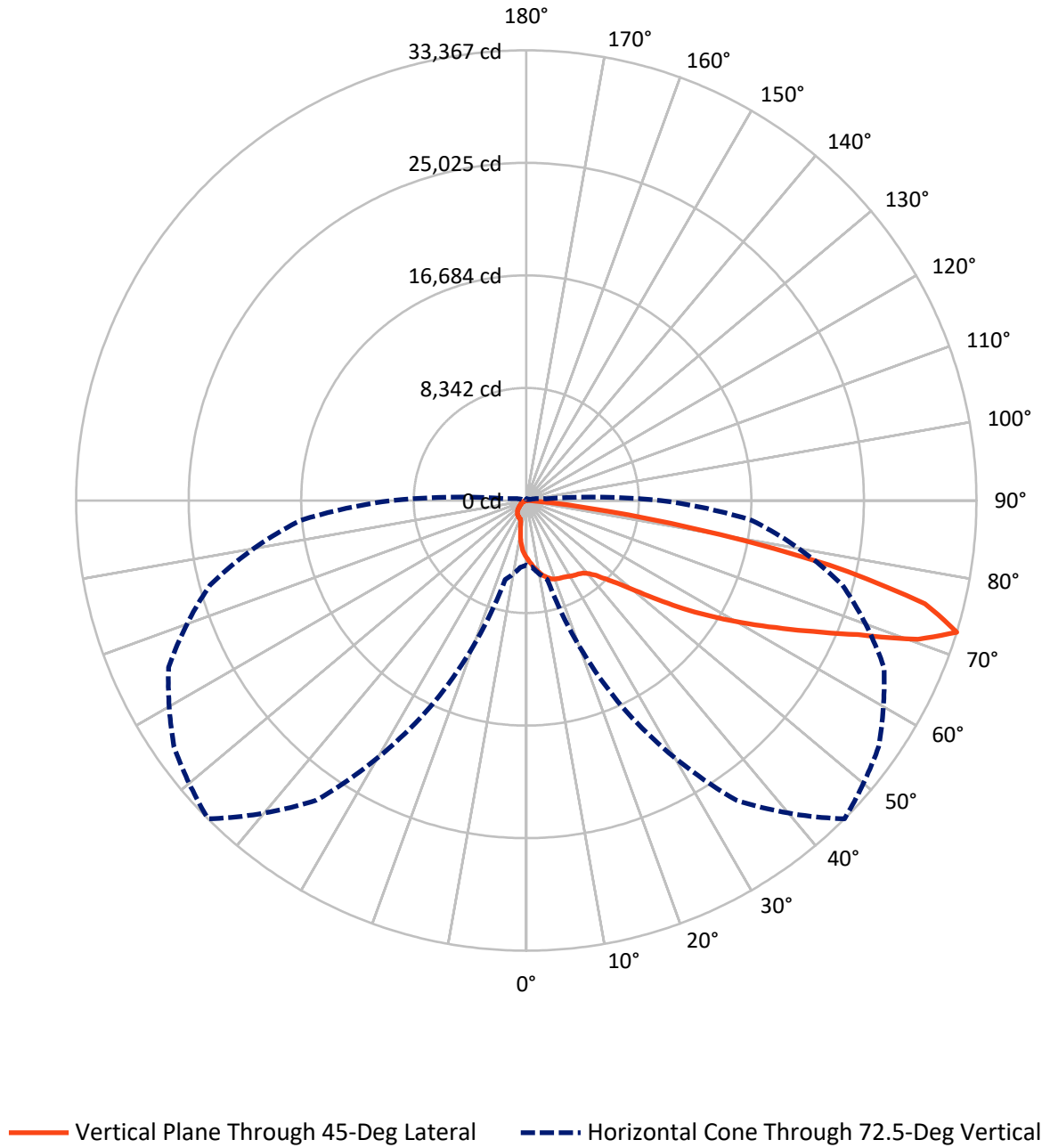
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4074.6	0.0	4074.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	34704.4	0.0	34704.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	38779.0	0.0	38779.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.3	1.0
10°-20°	1169.8	3.0
20°-30°	1921.1	5.0
30°-40°	2724.5	7.0
40°-50°	4503.3	11.6
50°-60°	8089.8	20.9
60°-70°	11233.1	29.0
70°-80°	8148.1	21.0
80°-90°	589.1	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°	38779.0	100.0
0°-180°	38779.0	100.0

**Coefficient of Utilization**



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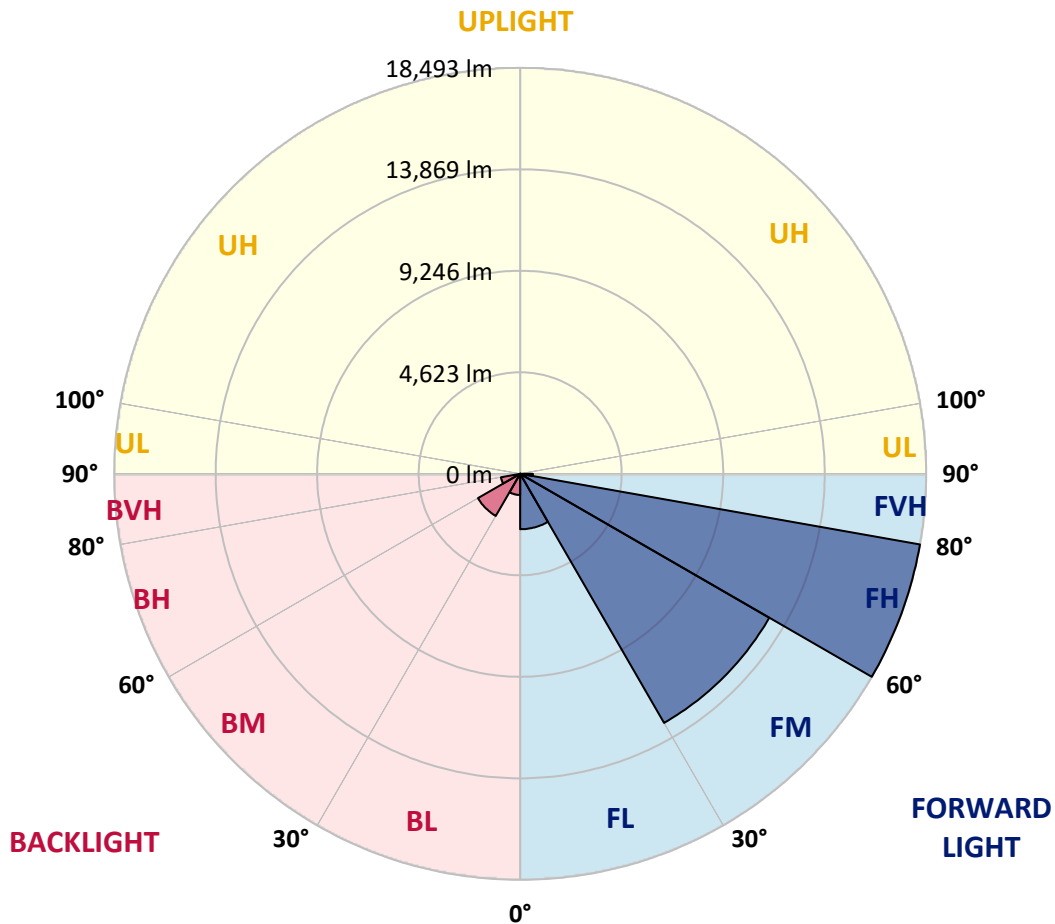
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2526.1	6.5			
FM (30°-60°)	13101.6	33.8			
FH (60°-80°)	18492.6	47.7			G5
FVH (80°-90°)	584.1	1.5			G4/750
BL (0°-30°)	965.1	2.5	B2/1000		
BM (30°-60°)	2216.0	5.7	B2/2500		
BH (60°-80°)	888.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.9	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4248.3	4248.3	4248.3	4248.3	4248.3	4248.3	4248.3	4248.3	4248.3	4248.3
2.5°	4640.1	4648.0	4642.7	4611.0	4558.0	4528.9	4513.0	4460.1	4425.7	4364.8
5°	5066.2	5098.0	5079.5	5015.9	4915.3	4843.9	4822.7	4714.2	4616.2	4502.4
7.5°	5518.8	5534.7	5500.3	5418.3	5283.3	5161.5	5143.0	4992.1	4835.9	4661.2
10°	5910.6	5929.1	5876.2	5757.1	5603.5	5452.7	5426.2	5259.4	5074.2	4859.8
12.5°	6238.8	6257.3	6188.5	6045.6	5876.2	5720.0	5693.5	5518.8	5315.0	5076.8
15°	6487.6	6522.0	6429.4	6275.9	6093.2	5937.1	5923.8	5751.8	5553.3	5288.6
17.5°	6633.2	6667.6	6580.3	6395.0	6238.8	6106.5	6090.6	5947.7	5762.4	5508.3
20°	6657.0	6688.8	6596.1	6434.7	6305.0	6199.1	6191.2	6087.9	5952.9	5709.4
22.5°	6585.6	6625.3	6540.6	6410.9	6320.9	6265.3	6254.7	6196.5	6119.7	5913.2
25°	6511.4	6543.2	6479.7	6365.9	6318.2	6312.9	6320.9	6310.3	6294.4	6119.7
27.5°	6506.2	6540.6	6469.1	6360.6	6334.1	6389.7	6397.6	6447.9	6461.2	6307.6
30°	6551.2	6575.0	6506.2	6392.3	6379.1	6506.2	6508.8	6598.8	6620.0	6466.4
32.5°	6649.1	6675.6	6606.7	6440.0	6421.5	6598.8	6606.7	6725.8	6760.3	6635.9
35°	6879.4	6911.1	6831.7	6572.3	6506.2	6686.1	6710.0	6850.3	6919.1	6815.8
37.5°	7453.8	7361.1	7252.6	6839.7	6699.4	6823.8	6863.5	7027.6	7149.4	7030.2
40°	8880.4	8589.3	8250.5	7294.9	7038.2	7117.6	7149.4	7313.5	7480.2	7363.8
42.5°	11021.8	10677.7	10132.4	8343.1	7549.0	7588.7	7612.6	7755.5	7991.1	7898.4
45°	12930.3	12805.8	12250.0	10132.4	8504.6	8308.7	8337.8	8411.9	8758.7	8724.3
47.5°	14396.6	14325.2	13896.4	12186.5	10119.2	9190.1	9272.2	9306.6	9806.9	9928.6
50°	15524.2	15497.8	15114.0	14012.8	12228.8	10489.8	10518.9	10444.8	11193.9	11495.6
52.5°	16588.3	16678.3	16395.1	15709.5	14481.4	12191.8	12186.5	11837.1	12848.2	13303.5
55°	17549.1	17580.9	17610.0	17440.6	16747.1	14129.3	14079.0	13507.3	14767.2	15238.4
57.5°	18451.7	18465.0	18724.4	19071.1	19105.5	16209.8	16117.2	15431.6	16863.6	17199.7
60°	19057.9	19118.8	19666.7	20630.2	21051.0	18356.5	18306.2	17607.4	18997.0	19153.2
62.5°	18184.4	18555.0	19936.7	21847.8	22888.0	20736.0	20712.2	20055.8	21241.6	21114.6
65°	14719.6	15346.9	17776.8	22671.0	24690.6	23393.6	23428.0	22729.2	23547.1	23134.2
67.5°	10296.6	10958.3	13832.9	22737.1	26704.9	26514.3	26712.8	25617.0	25995.5	25069.1
70°	7120.2	7461.7	9333.1	21313.1	28274.5	30812.9	30807.6	29163.9	28430.7	25950.5
72.5°	4788.3	4965.6	6061.5	16908.6	27120.4	33367.2	33213.7	31874.3	29251.2	24269.7
75°	2019.6	2149.3	2805.7	9502.5	21456.0	30527.0	30111.5	28168.6	25990.2	19110.8
77.5°	640.6	696.1	1106.4	3401.3	11818.5	22946.2	22506.8	17591.5	17419.4	9587.2
80°	304.4	354.7	622.0	1365.8	4650.7	12480.3	12419.4	7980.5	7493.5	2588.7
82.5°	132.3	156.2	344.1	730.6	2080.5	4452.1	4542.1	2715.7	2247.2	982.0
85°	42.4	55.6	158.8	336.2	878.8	1106.4	1093.2	645.9	905.2	534.7
87.5°	0.0	0.0	52.9	76.8	90.0	63.5	71.5	55.6	251.5	148.2
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°
4248.3	0°	4248.3	4248.3	4248.3	4248.3	4248.3	4248.3	4248.3	4248.3	4248.3	4248.3
4301.3	2.5°	4269.5	4227.1	4153.0	4084.2	4023.3	3962.5	3925.4	3872.5	3867.2	3867.2
4370.1	5°	4298.6	4229.8	4097.4	3957.2	3795.7	3642.2	3488.7	3340.4	3292.8	3258.4
4481.3	7.5°	4383.3	4274.8	4065.7	3798.3	3491.3	3155.1	2919.6	2665.5	2567.5	2514.6
4629.5	10°	4505.1	4356.8	4039.2	3570.7	3073.1	2615.2	2279.0	2003.7	1897.8	1852.9
4790.9	12.5°	4640.1	4457.4	3991.6	3287.5	2615.2	2067.3	1739.0	1612.0	1596.1	1596.1
4984.2	15°	4801.5	4579.2	3909.5	2954.0	2136.1	1635.8	1519.3	1524.6	1540.5	1551.1
5172.1	17.5°	4968.3	4708.9	3779.8	2580.8	1712.6	1471.7	1474.3	1482.3	1495.5	1506.1
5375.9	20°	5148.3	4838.6	3607.8	2183.7	1469.0	1424.0	1432.0	1439.9	1450.5	1455.8
5566.5	22.5°	5341.5	4960.3	3404.0	1794.6	1387.0	1384.3	1387.0	1394.9	1408.2	1408.2
5788.8	25°	5548.0	5095.3	3171.0	1511.4	1344.6	1344.6	1349.9	1355.2	1365.8	1365.8
6003.2	27.5°	5759.7	5219.7	2924.9	1363.2	1307.6	1304.9	1304.9	1312.9	1318.2	1320.8
6215.0	30°	5992.6	5365.3	2678.7	1331.4	1278.5	1265.2	1257.3	1262.6	1267.9	1270.5
6437.3	32.5°	6230.9	5505.6	2459.0	1344.6	1249.4	1225.5	1199.1	1193.8	1193.8	1204.4
6667.6	35°	6495.6	5659.1	2289.6	1389.6	1233.5	1167.3	1124.9	1101.1	1103.8	1119.7
6942.9	37.5°	6813.2	5844.4	2165.2	1429.3	1222.9	1101.1	1032.3	1003.2	984.7	1003.2
7321.4	40°	7228.8	6117.1	2075.2	1461.1	1209.6	1024.4	931.7	884.1	849.7	860.3
7909.0	42.5°	7840.2	6545.9	2040.8	1463.8	1180.5	934.4	828.5	765.0	714.7	717.3
8793.1	45°	8697.8	7223.5	2218.1	1429.3	1117.0	836.4	720.0	635.3	603.5	595.6
10113.9	47.5°	9873.0	8210.8	2628.4	1357.9	1024.4	741.1	614.1	542.6	518.8	505.6
11847.7	50°	11448.0	9478.7	3083.7	1278.5	931.7	651.1	526.7	481.7	465.9	452.6
13904.3	52.5°	13274.4	10765.1	3456.9	1199.1	839.1	571.7	471.2	444.7	431.4	420.9
15889.5	55°	14949.9	11651.8	3435.7	1114.4	749.1	508.2	431.4	415.6	399.7	389.1
17599.4	57.5°	15992.7	11776.2	2832.2	1021.7	645.9	457.9	394.4	383.8	365.3	352.0
19079.1	60°	16471.8	11066.8	1985.2	900.0	542.6	410.3	354.7	349.4	325.6	307.0
20479.3	62.5°	16559.2	9748.6	1323.5	749.1	452.6	365.3	315.0	307.0	275.3	243.5
21617.5	65°	16204.5	7864.0	915.8	585.0	386.5	317.6	270.0	254.1	219.7	187.9
21887.5	67.5°	15082.2	5521.5	637.9	420.9	328.2	251.5	214.4	209.1	182.6	156.2
20511.1	70°	13025.5	3147.2	426.2	315.0	259.4	172.1	169.4	174.7	148.2	127.1
16757.7	72.5°	9986.9	1439.9	264.7	230.3	177.3	116.5	135.0	137.6	113.8	95.3
10455.4	75°	5878.8	616.7	166.8	148.2	90.0	76.8	97.9	100.6	76.8	60.9
3822.2	77.5°	2001.1	232.9	105.9	87.3	45.0	42.4	63.5	63.5	42.4	23.8
767.6	80°	455.3	87.3	52.9	34.4	21.2	18.5	21.2	18.5	10.6	2.6
235.6	82.5°	129.7	34.4	21.2	13.2	7.9	7.9	2.6	0.0	0.0	0.0
82.1	85°	37.1	15.9	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0
29.1	87.5°	15.9	2.6	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>
4248.3
3880.4
3274.3
2522.5
1852.9
1596.1
1551.1
1506.1
1458.5
1413.5
1368.5
1323.5
1275.8
1212.3
1127.6
997.9
855.0
706.7
585.0
497.6
450.0
418.2
383.8
349.4
301.7
227.6
177.3
148.2
116.5
84.7
52.9
18.5
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