

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: P955013

Luminaire Tested: **GALN-SB8A-830-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955013  
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-SB8A-830-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

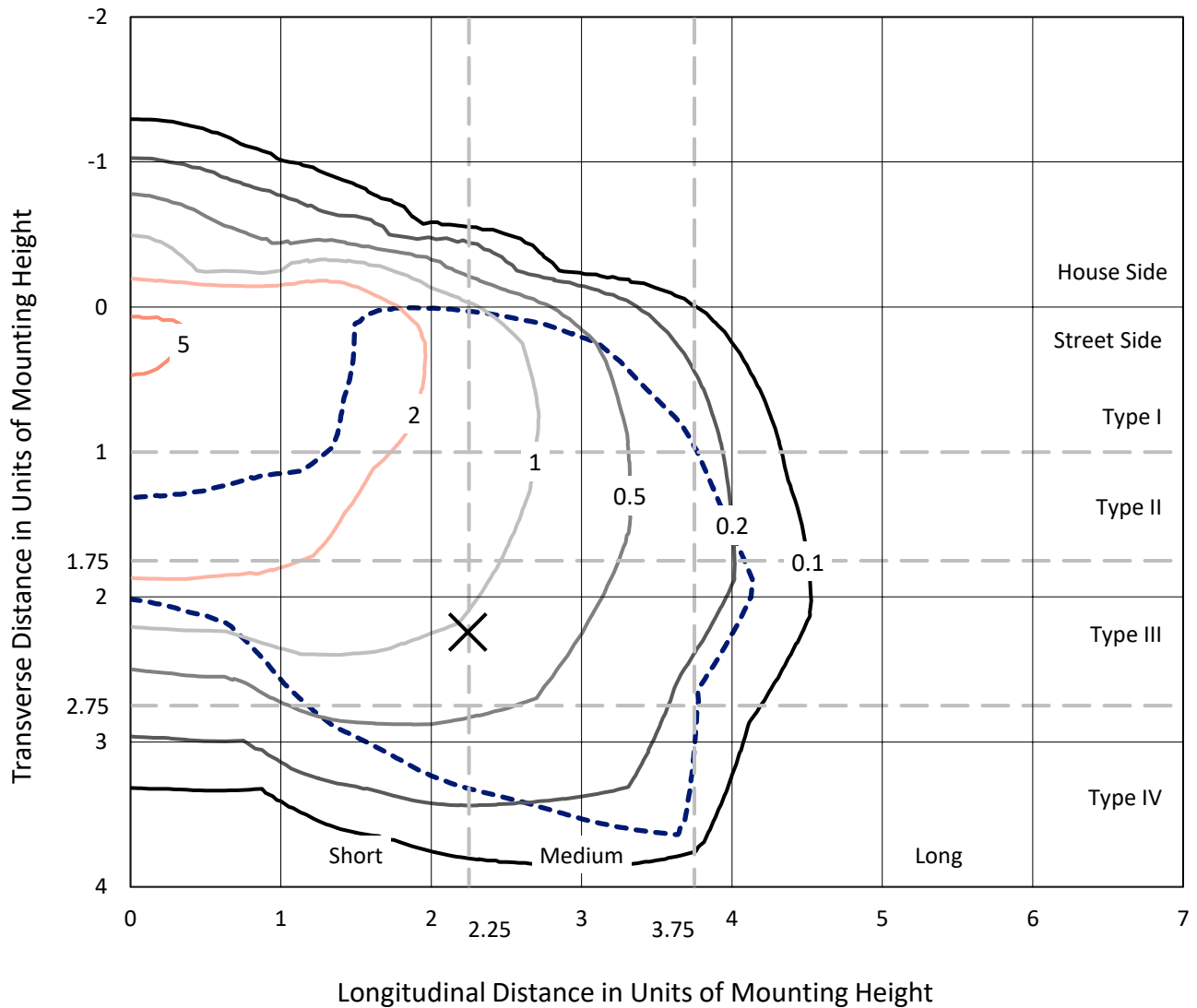
Lumens per Lamp: N/A  
Luminaire Lumens: 25106 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

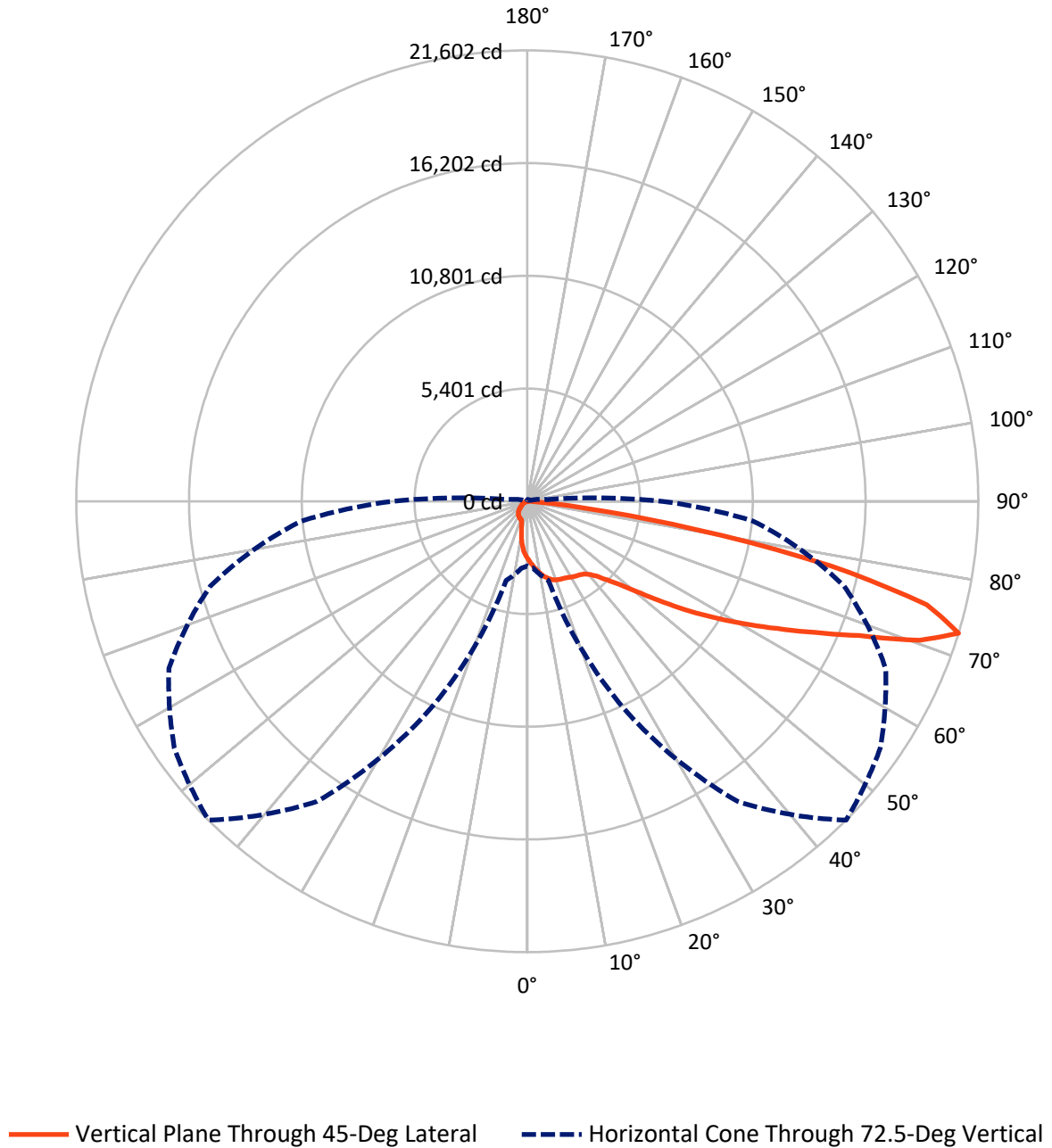
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2637.9	0.0	2637.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	22468.1	0.0	22468.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	25106.0	0.0	25106.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.1	1.0
10°-20°	757.4	3.0
20°-30°	1243.7	5.0
30°-40°	1763.9	7.0
40°-50°	2915.5	11.6
50°-60°	5237.4	20.9
60°-70°	7272.4	29.0
70°-80°	5275.2	21.0
80°-90°	381.4	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°	25106.0	100.0
0°-180°	25106.0	100.0

**Coefficient of Utilization**



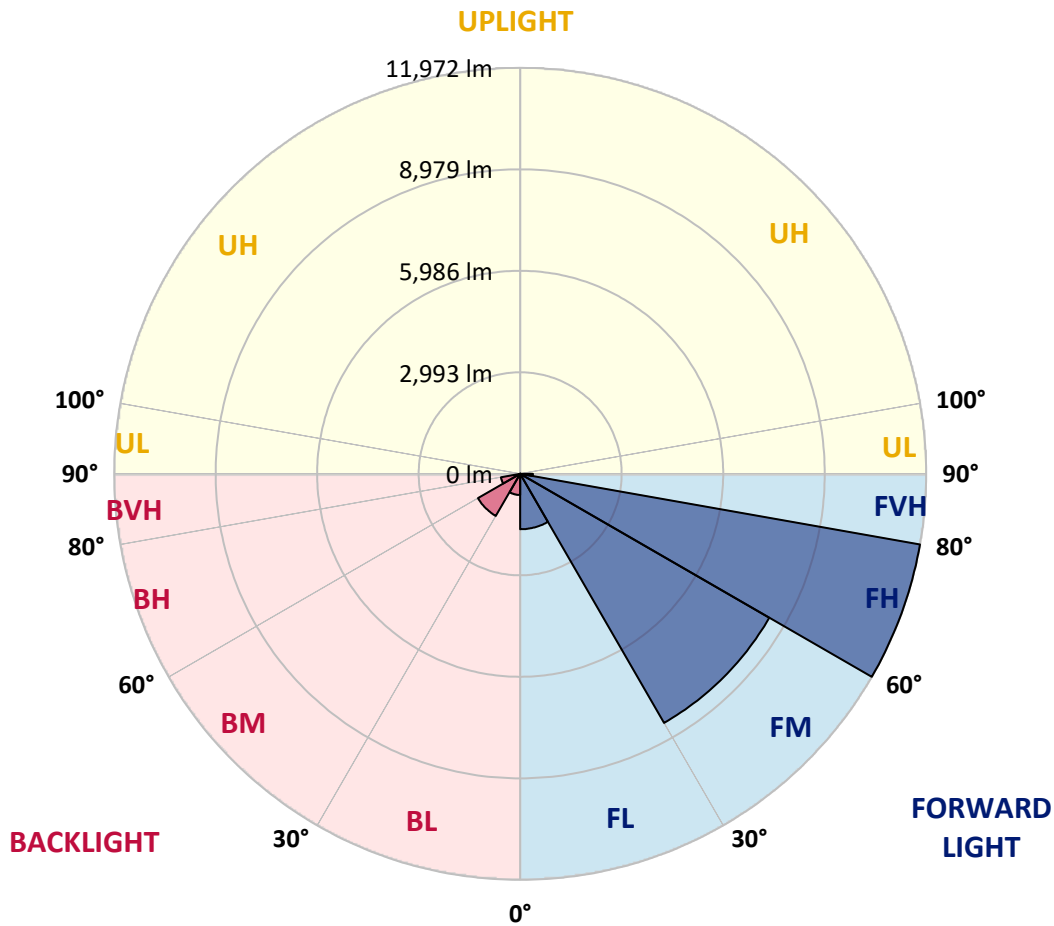
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1635.4	6.5			
FM (30°-60°)	8482.1	33.8			
FH (60°-80°)	11972.3	47.7			G4/12000
FVH (80°-90°)	378.2	1.5			G3/500
BL (0°-30°)	624.8	2.5	B2/1000		
BM (30°-60°)	1434.7	5.7	B2/2500		
BH (60°-80°)	575.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.2	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4
2.5°	3004.0	3009.2	3005.8	2985.2	2950.9	2932.1	2921.8	2887.5	2865.2	2825.8
5°	3279.9	3300.5	3288.5	3247.4	3182.3	3136.0	3122.3	3052.0	2988.6	2914.9
7.5°	3573.0	3583.3	3561.0	3507.9	3420.5	3341.6	3329.6	3232.0	3130.8	3017.7
10°	3826.6	3838.6	3804.3	3727.2	3627.8	3530.1	3513.0	3405.0	3285.1	3146.3
12.5°	4039.1	4051.1	4006.5	3914.0	3804.3	3703.2	3686.1	3573.0	3441.0	3286.8
15°	4200.2	4222.4	4162.5	4063.1	3944.8	3843.7	3835.2	3723.8	3595.2	3423.9
17.5°	4294.4	4316.7	4260.1	4140.2	4039.1	3953.4	3943.1	3850.6	3730.6	3566.1
20°	4309.8	4330.4	4270.4	4165.9	4081.9	4013.4	4008.2	3941.4	3854.0	3696.4
22.5°	4263.6	4289.3	4234.4	4150.5	4092.2	4056.2	4049.4	4011.7	3962.0	3828.3
25°	4215.6	4236.2	4195.0	4121.3	4090.5	4087.1	4092.2	4085.4	4075.1	3962.0
27.5°	4212.2	4234.4	4188.2	4117.9	4100.8	4136.8	4141.9	4174.5	4183.0	4083.6
30°	4241.3	4256.7	4212.2	4138.5	4129.9	4212.2	4213.9	4272.1	4285.9	4186.5
32.5°	4304.7	4321.8	4277.3	4169.3	4157.3	4272.1	4277.3	4354.4	4376.7	4296.1
35°	4453.8	4474.4	4422.9	4255.0	4212.2	4328.7	4344.1	4434.9	4479.5	4412.7
37.5°	4825.7	4765.7	4695.4	4428.1	4337.3	4417.8	4443.5	4549.8	4628.6	4551.5
40°	5749.3	5560.8	5341.5	4722.8	4556.6	4608.0	4628.6	4734.8	4842.8	4767.4
42.5°	7135.7	6912.9	6559.9	5401.4	4887.3	4913.0	4928.5	5021.0	5173.5	5113.5
45°	8371.2	8290.7	7930.8	6559.9	5506.0	5379.2	5398.0	5446.0	5670.5	5648.2
47.5°	9320.6	9274.3	8996.7	7889.7	6551.3	5949.8	6002.9	6025.2	6349.1	6427.9
50°	10050.6	10033.4	9785.0	9072.1	7917.1	6791.2	6810.1	6762.1	7247.0	7442.4
52.5°	10739.5	10797.7	10614.4	10170.5	9375.4	7893.1	7889.7	7663.5	8318.1	8612.8
55°	11361.5	11382.1	11400.9	11291.3	10842.3	9147.5	9114.9	8744.8	9560.5	9865.5
57.5°	11945.9	11954.5	12122.4	12346.9	12369.2	10494.4	10434.4	9990.6	10917.7	11135.3
60°	12338.3	12377.7	12732.5	13356.2	13628.7	11884.2	11851.6	11399.2	12298.9	12400.0
62.5°	11772.8	12012.7	12907.2	14144.5	14818.0	13424.8	13409.3	12984.4	13752.1	13669.8
65°	9529.6	9935.8	11508.9	14677.5	15985.0	15145.3	15167.6	14715.2	15244.7	14977.3
67.5°	6666.1	7094.5	8955.6	14720.3	17289.1	17165.7	17294.2	16584.7	16829.8	16230.0
70°	4609.7	4830.8	6042.3	13798.3	18305.3	19948.7	19945.2	18881.0	18406.4	16800.7
72.5°	3100.0	3214.8	3924.3	10946.8	17558.1	21602.3	21502.9	20635.8	18937.6	15712.5
75°	1307.5	1391.5	1816.5	6152.0	13890.9	19763.6	19494.5	18236.7	16826.4	12372.6
77.5°	414.7	450.7	716.3	2202.0	7651.5	14855.7	14571.2	11388.9	11277.6	6206.9
80°	197.1	229.6	402.7	884.2	3010.9	8079.9	8040.5	5166.7	4851.4	1676.0
82.5°	85.7	101.1	222.8	473.0	1346.9	2882.4	2940.6	1758.2	1454.9	635.8
85°	27.4	36.0	102.8	217.6	568.9	716.3	707.7	418.1	586.1	346.2
87.5°	0.0	0.0	34.3	49.7	58.3	41.1	46.3	36.0	162.8	96.0
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°
2750.4	0°	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4
2784.7	2.5°	2764.1	2736.7	2688.7	2644.2	2604.8	2565.3	2541.3	2507.1	2503.6	2503.6
2829.2	5°	2783.0	2738.4	2652.7	2561.9	2457.4	2358.0	2258.6	2162.6	2131.8	2109.5
2901.2	7.5°	2837.8	2767.6	2632.2	2459.1	2260.3	2042.7	1890.2	1725.7	1662.2	1628.0
2997.2	10°	2916.6	2820.7	2615.0	2311.7	1989.6	1693.1	1475.5	1297.2	1228.7	1199.6
3101.7	12.5°	3004.0	2885.8	2584.2	2128.4	1693.1	1338.4	1125.9	1043.6	1033.3	1033.3
3226.8	15°	3108.6	2964.6	2531.1	1912.4	1382.9	1059.0	983.6	987.1	997.3	1004.2
3348.5	17.5°	3216.5	3048.6	2447.1	1670.8	1108.7	952.8	954.5	959.6	968.2	975.1
3480.4	20°	3333.1	3132.6	2335.7	1413.8	951.1	921.9	927.1	932.2	939.1	942.5
3603.8	22.5°	3458.2	3211.4	2203.8	1161.9	898.0	896.2	898.0	903.1	911.7	911.7
3747.8	25°	3591.8	3298.8	2053.0	978.5	870.5	870.5	874.0	877.4	884.2	884.2
3886.6	27.5°	3728.9	3379.3	1893.6	882.5	846.5	844.8	844.8	850.0	853.4	855.1
4023.7	30°	3879.7	3473.6	1734.2	862.0	827.7	819.1	814.0	817.4	820.8	822.6
4167.6	32.5°	4033.9	3564.4	1592.0	870.5	808.8	793.4	776.3	772.9	772.9	779.7
4316.7	35°	4205.3	3663.8	1482.3	899.7	798.6	755.7	728.3	712.9	714.6	724.9
4494.9	37.5°	4410.9	3783.7	1401.8	925.4	791.7	712.9	668.3	649.5	637.5	649.5
4740.0	40°	4680.0	3960.3	1343.5	945.9	783.1	663.2	603.2	572.4	550.1	556.9
5120.4	42.5°	5075.8	4237.9	1321.2	947.7	764.3	604.9	536.4	495.2	462.7	464.4
5692.8	45°	5631.1	4676.6	1436.0	925.4	723.2	541.5	466.1	411.3	390.7	385.6
6547.9	47.5°	6391.9	5315.8	1701.7	879.1	663.2	479.8	397.6	351.3	335.9	327.3
7670.3	50°	7411.6	6136.6	1996.4	827.7	603.2	421.6	341.0	311.9	301.6	293.0
9001.8	52.5°	8594.0	6969.4	2238.0	776.3	543.2	370.1	305.0	287.9	279.3	272.5
10287.1	55°	9678.7	7543.5	2224.3	721.4	485.0	329.0	279.3	269.0	258.8	251.9
11394.1	57.5°	10353.9	7624.0	1833.6	661.5	418.1	296.5	255.3	248.5	236.5	227.9
12352.0	60°	10664.1	7164.8	1285.2	582.6	351.3	265.6	229.6	226.2	210.8	198.8
13258.5	62.5°	10720.6	6311.4	856.8	485.0	293.0	236.5	203.9	198.8	178.2	157.7
13995.4	65°	10491.0	5091.3	592.9	378.7	250.2	205.6	174.8	164.5	142.2	121.7
14170.2	67.5°	9764.4	3574.7	413.0	272.5	212.5	162.8	138.8	135.4	118.2	101.1
13279.1	70°	8432.9	2037.5	275.9	203.9	167.9	111.4	109.7	113.1	96.0	82.3
10849.1	72.5°	6465.6	932.2	171.4	149.1	114.8	75.4	87.4	89.1	73.7	61.7
6768.9	75°	3806.0	399.3	108.0	96.0	58.3	49.7	63.4	65.1	49.7	39.4
2474.5	77.5°	1295.5	150.8	68.5	56.6	29.1	27.4	41.1	41.1	27.4	15.4
497.0	80°	294.7	56.6	34.3	22.3	13.7	12.0	13.7	12.0	6.9	1.7
152.5	82.5°	84.0	22.3	13.7	8.6	5.1	5.1	1.7	0.0	0.0	0.0
53.1	85°	24.0	10.3	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
18.9	87.5°	10.3	1.7	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

<u>180°</u>
2750.4
2512.2
2119.8
1633.1
1199.6
1033.3
1004.2
975.1
944.2
915.1
886.0
856.8
826.0
784.9
730.0
646.0
553.5
457.5
378.7
322.2
291.3
270.8
248.5
226.2
195.4
147.4
114.8
96.0
75.4
54.8
34.3
12.0
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