

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: P943078

Luminaire Tested: **GALN-SB7B-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943078
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-SB7B-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 29002 lumens
Efficiency: N/A
Efficacy: 113.0 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

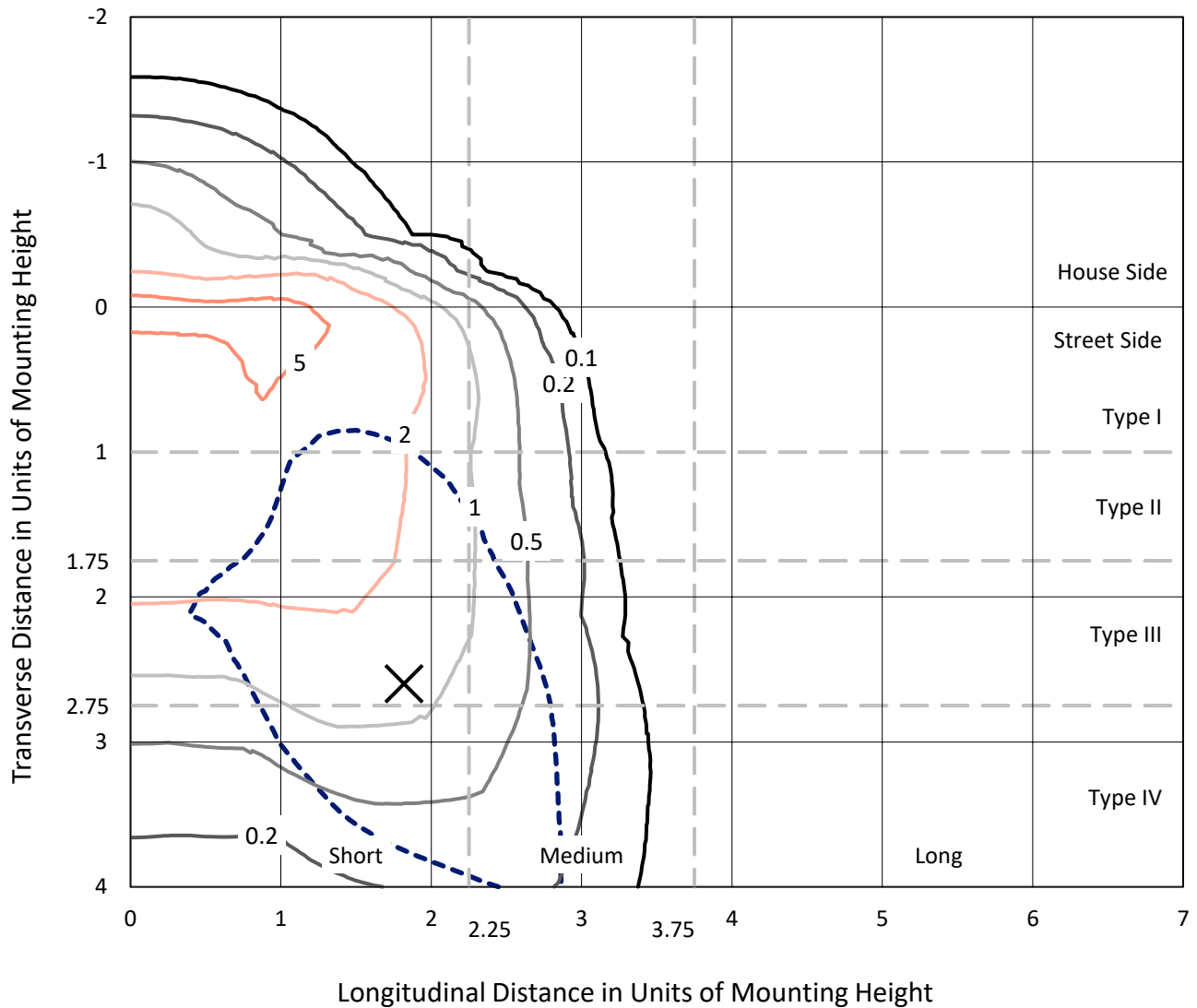
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

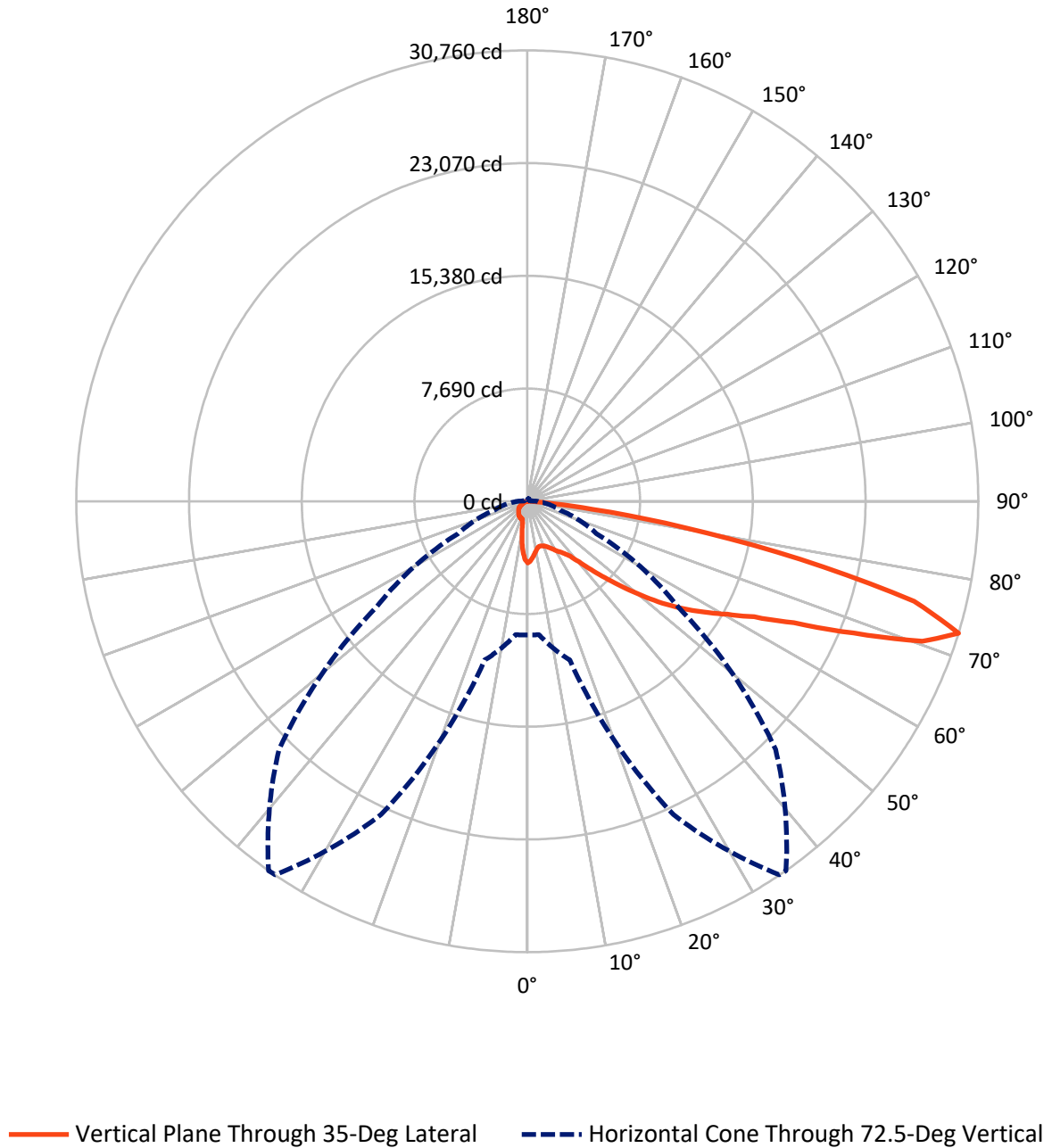
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	3264.1	0.0	3264.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	25738.0	0.0	25738.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	29002.0	0.0	29002.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.4	1.2
10°-20°	808.0	2.8
20°-30°	1312.6	4.5
30°-40°	2190.1	7.6
40°-50°	4143.7	14.3
50°-60°	6584.4	22.7
60°-70°	8145.3	28.1
70°-80°	5063.2	17.5
80°-90°	409.2	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°	29002.0	100.0
0°-180°	29002.0	100.0



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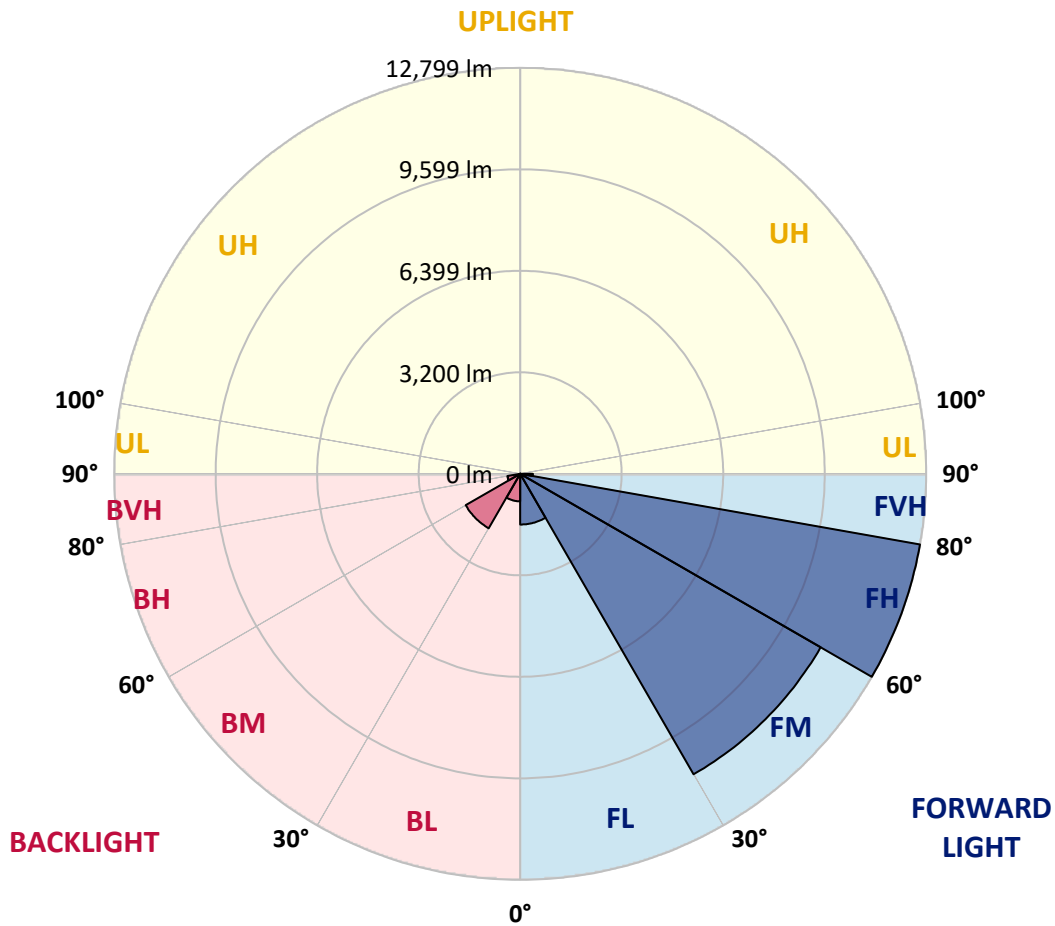
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1598.7	5.5			
FM (30°-60°)	10936.7	37.7			
FH (60°-80°)	12798.9	44.1			G5
FVH (80°-90°)	403.6	1.4			G3/500
BL (0°-30°)	867.3	3.0	B2/1000		
BM (30°-60°)	1981.6	6.8	B2/2500		
BH (60°-80°)	409.6	1.4	B1/500		G1/500
BVH (80°-90°)	5.6	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°	34°	35°	45°	55°	65°	75°
0°	4203.4	4203.4	4203.4	4203.4	4203.4	4203.4	4203.4	4203.4	4203.4	4203.4
2.5°	4016.4	4050.4	4056.7	4067.4	4067.4	4080.1	4101.4	4131.1	4180.0	4205.5
5°	3701.8	3727.3	3759.2	3784.7	3833.6	3840.0	3922.9	4003.6	4116.2	4201.2
7.5°	3385.2	3415.0	3457.5	3519.1	3582.8	3602.0	3727.3	3863.4	4041.9	4201.2
10°	3162.1	3164.2	3202.5	3264.1	3366.1	3389.5	3542.5	3735.8	3959.0	4175.7
12.5°	3036.7	3051.6	3068.6	3115.3	3213.1	3228.0	3391.6	3619.0	3876.1	4160.9
15°	3036.7	3047.3	3058.0	3081.3	3160.0	3172.7	3317.2	3544.6	3833.6	4167.2
17.5°	3068.6	3085.6	3077.1	3104.7	3187.6	3196.1	3323.6	3523.3	3831.5	4207.6
20°	3145.1	3157.8	3140.8	3157.8	3240.7	3257.7	3389.5	3563.7	3867.6	4277.7
22.5°	3266.2	3272.6	3232.2	3245.0	3330.0	3351.2	3504.2	3678.5	3954.7	4390.4
25°	3419.2	3432.0	3370.3	3385.2	3466.0	3491.5	3667.8	3850.6	4092.9	4545.5
27.5°	3595.6	3602.0	3548.8	3546.7	3650.8	3687.0	3865.5	4063.1	4277.7	4741.0
30°	3797.5	3816.6	3765.6	3757.1	3888.9	3918.6	4095.0	4324.5	4549.7	5034.3
32.5°	3956.9	3971.7	3942.0	3963.2	4097.1	4120.5	4373.4	4694.3	4976.9	5450.8
35°	4186.4	4194.9	4126.9	4165.1	4318.1	4377.6	4753.8	5212.8	5514.5	5973.5
37.5°	5017.3	5017.3	4728.3	4539.1	4685.8	4738.9	5274.4	5865.2	6177.5	6674.8
40°	6166.9	6147.8	5724.9	5338.1	5319.0	5423.1	6016.0	6687.6	7033.9	7516.3
42.5°	7393.1	7363.3	6787.4	6404.9	6341.2	6377.3	6872.4	7701.2	8054.0	8542.7
45°	8481.1	8472.6	7945.6	7431.3	7316.6	7431.3	7941.3	8887.0	9139.9	9654.1
47.5°	9392.8	9392.8	9008.1	8672.4	8612.9	8680.9	9388.5	10202.4	10179.0	10837.8
50°	10442.5	10434.0	10068.5	9924.0	9985.6	10081.3	11054.5	11587.9	11254.3	12000.2
52.5°	11177.8	11228.8	11103.4	11080.0	11394.6	11560.3	12746.1	12943.7	12217.0	13103.1
55°	11760.1	11819.6	11964.1	12127.7	12733.3	12950.1	14384.5	14229.4	13022.3	14059.4
57.5°	12584.6	12499.6	12722.7	13045.7	14025.4	14286.8	15971.9	15442.8	13670.5	14835.0
60°	13585.5	13598.2	13636.5	14044.5	15315.3	15651.0	17536.0	16590.3	14087.0	15311.0
62.5°	14788.3	14807.4	14886.0	15512.9	17047.2	17363.8	19202.0	17529.6	14278.3	15177.2
65°	14705.4	14786.1	15663.8	17808.0	19680.2	19992.5	21146.4	18188.4	13989.2	13953.1
67.5°	13396.4	13528.1	14996.5	20549.3	23649.8	23998.3	23496.8	18318.0	12741.8	10850.5
70°	11679.3	11726.1	13492.0	23014.4	28246.3	28599.0	25600.6	16892.1	9669.0	6052.2
72.5°	9120.7	9131.4	11203.3	23586.0	30741.1	30760.2	23949.4	12540.0	5200.0	2324.8
75°	6515.4	6451.7	7503.6	19127.6	27045.6	27262.4	17954.6	5882.2	1986.9	1098.7
77.5°	3493.6	3563.7	4245.9	11343.6	18683.5	19053.3	9796.5	1695.8	1011.5	748.0
80°	1079.5	1139.0	1740.4	5193.6	10582.8	10805.9	3631.7	754.4	705.5	533.4
82.5°	340.0	352.8	811.8	2182.4	4392.5	4494.5	1051.9	427.1	482.4	352.8
85°	97.8	99.9	361.3	813.9	1085.9	1107.2	295.4	165.8	276.3	218.9
87.5°	10.6	34.0	136.0	136.0	95.6	93.5	31.9	36.1	78.6	27.6
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°
4203.4	0°	4203.4	4203.4	4203.4	4203.4	4203.4	4203.4	4203.4	4203.4	4203.4	4203.4
4222.5	2.5°	4211.9	4214.0	4186.4	4139.6	4088.6	4046.1	3993.0	3950.5	3920.7	3912.2
4260.7	5°	4241.6	4226.7	4148.1	4005.7	3835.7	3689.1	3525.5	3395.8	3310.8	3274.7
4301.1	7.5°	4286.2	4243.7	4071.6	3791.1	3466.0	3177.0	2883.7	2656.3	2511.8	2439.6
4339.4	10°	4324.5	4239.5	3944.1	3480.8	2983.6	2545.8	2150.6	1876.4	1723.4	1651.2
4384.0	12.5°	4360.6	4237.4	3778.4	3113.2	2439.6	1904.1	1536.4	1400.4	1357.9	1343.0
4456.2	15°	4428.6	4243.7	3570.1	2692.4	1897.7	1438.7	1304.8	1302.7	1311.2	1306.9
4566.7	17.5°	4522.1	4250.1	3334.2	2246.2	1464.2	1268.7	1262.3	1281.4	1294.2	1287.8
4704.9	20°	4643.2	4275.6	3083.5	1804.2	1258.0	1226.2	1241.0	1258.0	1268.7	1258.0
4889.8	22.5°	4813.3	4320.2	2809.3	1449.3	1192.2	1200.7	1213.4	1232.5	1243.2	1228.3
5125.6	25°	5021.5	4390.4	2539.4	1260.2	1160.3	1170.9	1190.0	1211.3	1224.0	1209.2
5423.1	27.5°	5291.4	4503.0	2290.8	1217.7	1128.4	1134.8	1162.4	1194.3	1211.3	1192.2
5846.0	30°	5682.4	4687.9	2076.2	1236.8	1109.3	1094.4	1132.7	1177.3	1196.4	1179.4
6421.9	32.5°	6200.9	4949.3	1944.4	1266.5	1100.8	1047.7	1083.8	1141.2	1173.0	1162.4
7174.2	35°	6880.9	5346.6	1893.4	1300.5	1094.4	998.8	1024.3	1085.9	1141.2	1151.8
8122.0	37.5°	7705.5	5899.2	1908.3	1315.4	1075.3	958.4	971.2	1024.3	1096.5	1130.5
9188.7	40°	8642.6	6543.0	1993.3	1300.5	1054.0	924.4	926.5	966.9	1030.7	1081.7
10336.3	42.5°	9609.5	7295.3	2150.6	1245.3	1034.9	894.6	888.3	915.9	958.4	994.5
11481.7	45°	10529.7	8068.8	2305.7	1168.8	1011.5	864.9	850.0	860.6	869.1	884.0
12597.3	47.5°	11332.9	8612.9	2261.1	1098.7	979.7	830.9	805.4	801.1	775.6	773.5
13594.0	50°	11887.6	8731.9	2008.2	1028.5	932.9	792.6	752.3	726.8	682.1	660.9
14339.9	52.5°	12063.9	8262.2	1640.5	958.4	856.4	741.6	684.3	643.9	588.6	569.5
14769.1	55°	11830.2	7342.1	1311.2	873.4	750.1	673.6	609.9	556.8	512.1	488.8
14815.9	57.5°	11258.6	6171.2	1037.0	773.5	637.5	597.1	533.4	480.3	442.0	418.6
14297.4	60°	10310.8	4900.4	820.3	654.5	544.0	514.3	448.4	414.4	380.4	352.8
12958.6	62.5°	8872.1	3497.8	643.9	518.5	454.8	420.8	382.5	357.0	316.6	278.4
10550.9	65°	6923.4	2139.9	497.3	380.4	365.5	348.5	325.1	301.8	252.9	214.6
6883.1	67.5°	4367.0	1013.7	354.9	286.9	289.0	280.5	269.9	250.8	214.6	180.6
3083.5	70°	1923.2	490.9	233.8	218.9	214.6	214.6	223.1	216.8	182.8	150.9
1071.0	72.5°	654.5	263.5	174.3	165.8	155.1	153.0	187.0	180.6	146.6	116.9
533.4	75°	342.1	176.4	127.5	119.0	93.5	112.6	148.8	140.3	104.1	76.5
352.8	77.5°	223.1	125.4	87.1	76.5	53.1	74.4	110.5	97.8	61.6	38.3
231.6	80°	140.3	82.9	51.0	36.1	25.5	40.4	59.5	42.5	23.4	8.5
136.0	82.5°	74.4	42.5	19.1	12.8	10.6	12.8	14.9	10.6	4.3	0.0
70.1	85°	29.8	14.9	6.4	4.3	2.1	0.0	4.3	2.1	0.0	0.0
12.8	87.5°	10.6	2.1	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>
4203.4
3927.1
3287.5
2450.2
1653.3
1338.8
1304.8
1285.7
1255.9
1226.2
1207.0
1192.2
1177.3
1162.4
1151.8
1139.0
1098.7
1009.4
892.5
771.4
663.0
567.4
488.8
414.4
346.4
272.0
208.3
176.4
144.5
110.5
70.1
34.0
6.4
0.0
0.0
0.0
0.0

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