

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: P946357

Luminaire Tested: **GALN-SB2A-740-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-740-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

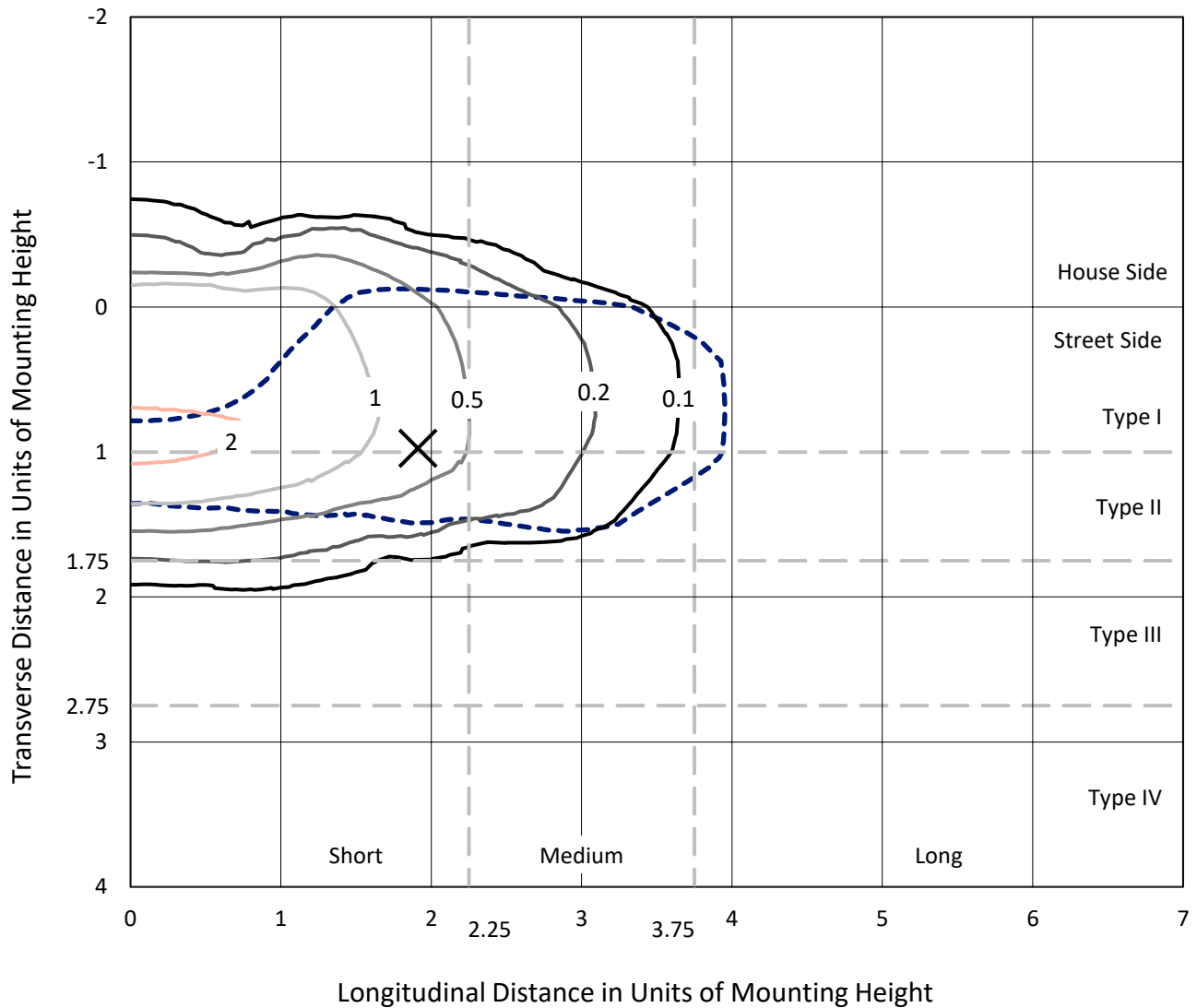
Lumens per Lamp: N/A  
Luminaire Lumens: 7253 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

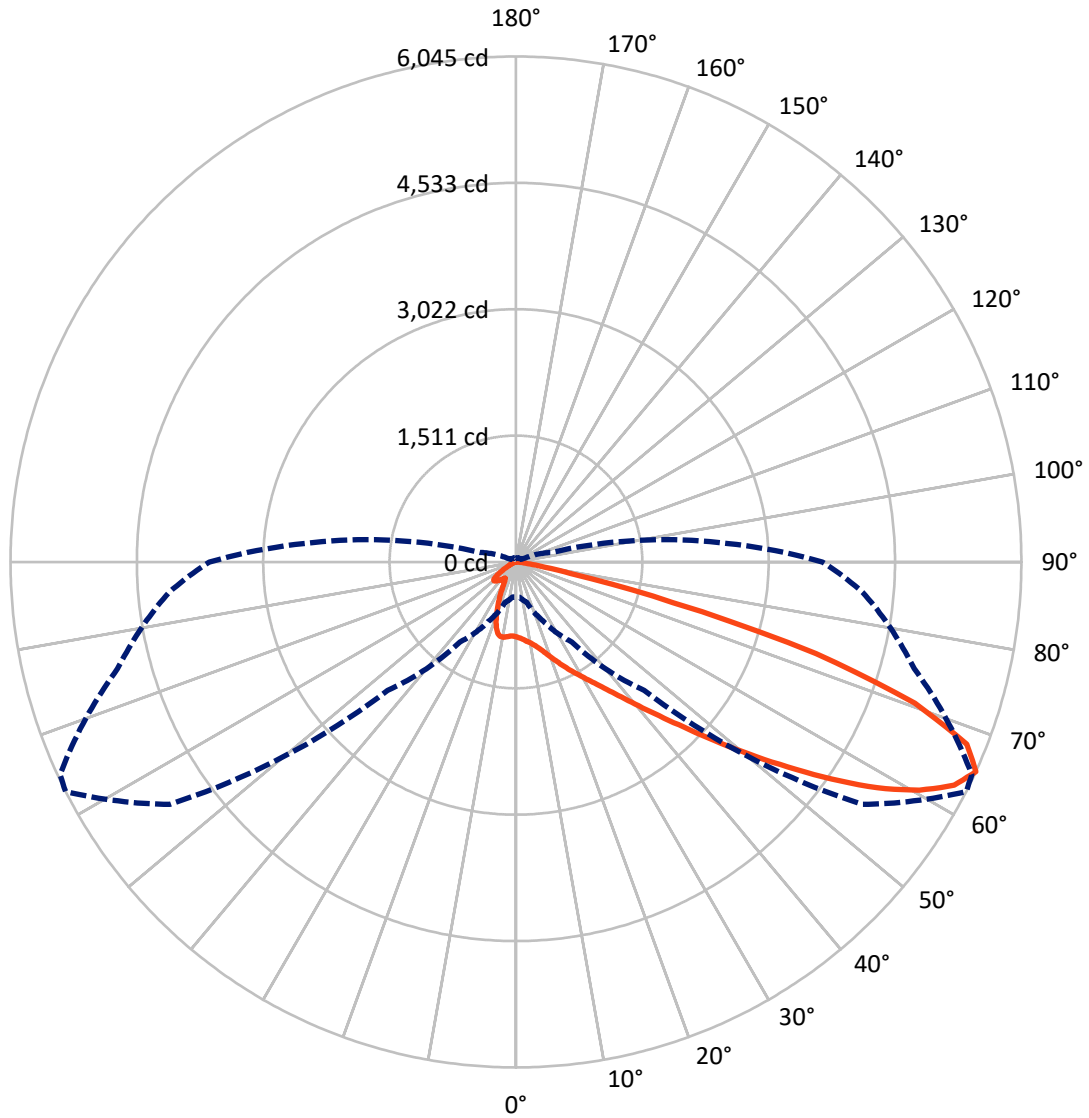
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1066.1	0.0	1066.1
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	6186.9	0.0	6186.9
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	7253.0	0.0	7253.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	1.2
10°-20°	234.0	3.2
20°-30°	407.5	5.6
30°-40°	734.4	10.1
40°-50°	1456.6	20.1
50°-60°	1984.2	27.4
60°-70°	1583.7	21.8
70°-80°	716.7	9.9
80°-90°	51.5	0.7
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°	7253.0	100.0
0°-180°	7253.0	100.0



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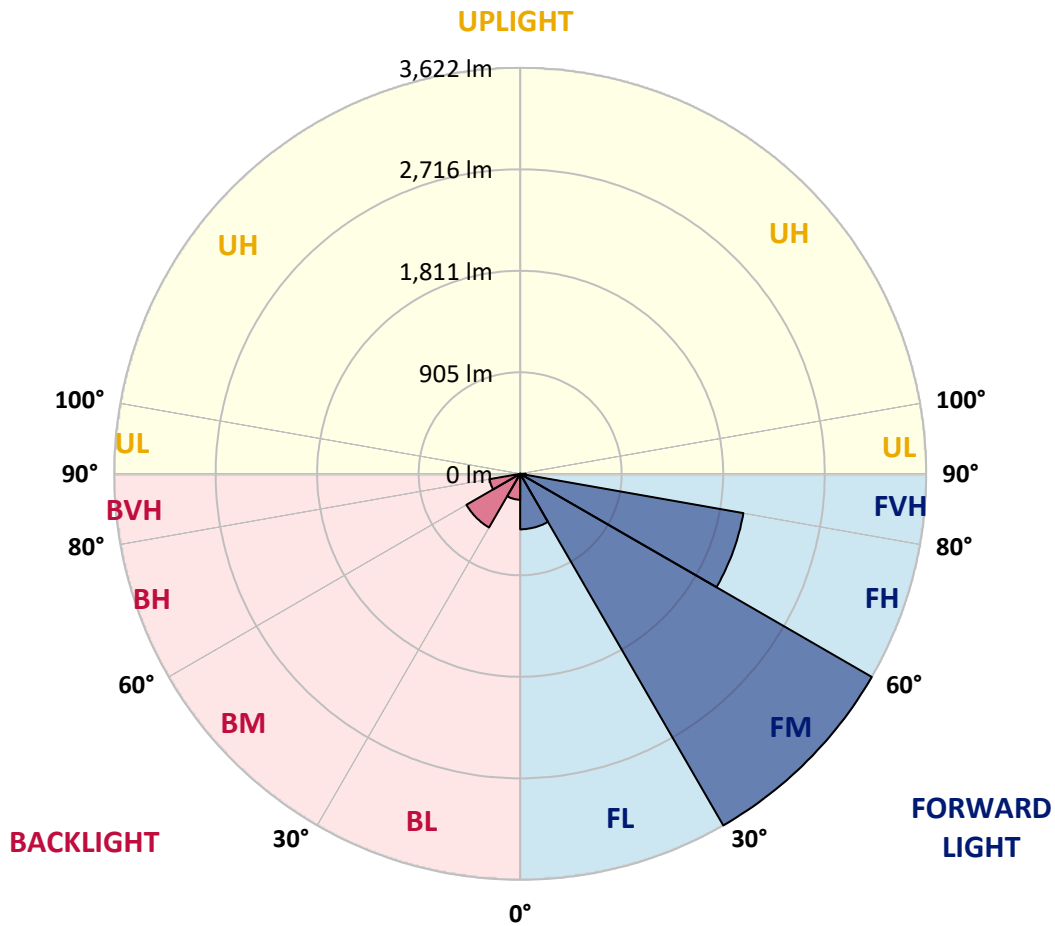
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	495.1	6.8			
FM (30°-60°)	3622.0	49.9			
FH (60°-80°)	2022.1	27.9			G2/5000
FVH (80°-90°)	47.7	0.7			G1/100
BL (0°-30°)	230.7	3.2	B1/500		
BM (30°-60°)	553.3	7.6	B1/1000		
BH (60°-80°)	278.3	3.8	B1/500		G1/500
BVH (80°-90°)	3.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2
2.5°	916.1	913.6	917.1	915.6	914.6	912.6	911.6	910.6	908.6	907.1
5°	918.6	917.1	920.6	923.6	926.6	929.6	931.1	933.1	931.1	927.1
7.5°	897.7	896.7	904.1	913.1	926.6	938.1	950.5	957.5	958.0	956.5
10°	896.2	893.7	901.1	912.1	929.6	950.0	972.0	987.0	989.0	995.5
12.5°	919.6	917.1	927.6	939.6	957.5	979.0	1005.9	1026.9	1029.9	1038.9
15°	959.0	955.5	967.5	983.0	1005.9	1030.4	1058.8	1077.8	1080.3	1091.3
17.5°	1004.9	1001.4	1015.4	1031.9	1056.8	1090.3	1123.2	1144.1	1147.1	1154.1
20°	1063.8	1059.3	1070.3	1085.3	1111.7	1151.6	1191.0	1221.0	1220.5	1220.5
22.5°	1132.2	1125.2	1134.7	1146.6	1171.6	1220.0	1272.4	1307.8	1307.8	1293.8
25°	1205.5	1198.5	1209.0	1220.0	1241.9	1296.8	1358.2	1402.1	1404.1	1380.2
27.5°	1297.3	1288.3	1296.3	1309.3	1322.3	1378.2	1451.0	1501.9	1502.9	1466.0
30°	1474.0	1448.5	1423.6	1409.6	1415.6	1471.0	1548.8	1605.2	1610.2	1559.3
32.5°	1797.3	1792.3	1704.5	1589.7	1529.9	1570.8	1658.1	1725.9	1728.9	1663.6
35°	2299.8	2293.8	2152.6	1934.0	1738.9	1704.5	1790.8	1871.1	1869.2	1795.3
37.5°	2899.5	2894.0	2707.9	2415.5	2099.7	1906.6	1962.0	2046.3	2058.8	1962.0
40°	3412.0	3391.5	3273.8	2991.8	2578.7	2241.9	2205.5	2261.3	2274.3	2159.6
42.5°	3800.2	3782.7	3722.8	3546.7	3158.5	2737.9	2492.4	2513.8	2528.3	2390.6
45°	4001.3	3997.3	4021.2	4004.8	3749.3	3346.6	2902.5	2813.2	2818.7	2646.6
47.5°	4029.7	4027.7	4137.0	4291.7	4257.2	4033.2	3428.9	3186.4	3167.0	2935.5
50°	3862.0	3858.1	4067.6	4357.5	4596.5	4610.0	4026.7	3607.1	3564.2	3234.3
52.5°	3326.7	3325.7	3669.9	4152.5	4715.8	5115.0	4617.5	4069.1	3997.3	3550.7
55°	2559.7	2578.2	2972.9	3543.2	4498.2	5358.0	5147.9	4582.1	4471.8	3869.0
57.5°	1813.3	1840.2	2230.4	2738.4	3823.6	5214.3	5506.7	5096.0	4977.3	4186.4
60°	974.0	997.9	1388.6	1994.9	2844.6	4678.4	5695.8	5542.1	5429.8	4487.8
62.5°	580.3	588.3	750.0	1287.8	1924.0	3574.1	5615.4	5881.9	5789.6	4740.7
65°	416.6	418.1	499.5	786.4	1168.1	2171.5	5052.1	6044.6	6016.1	4931.3
67.5°	350.8	349.8	383.7	522.4	795.9	1087.8	3872.0	5814.5	5935.3	5052.1
70°	300.9	302.4	342.3	382.7	598.3	615.7	1925.0	5062.6	5320.0	5084.0
72.5°	224.0	229.0	266.0	348.8	451.6	423.6	664.6	3753.8	4219.3	4790.1
75°	158.2	160.7	187.1	293.4	336.8	308.4	339.3	1940.5	2537.3	3672.4
77.5°	121.7	126.2	141.7	205.1	331.8	216.6	207.6	671.6	1031.9	2218.4
80°	65.9	73.8	102.3	148.2	233.0	153.2	102.8	267.4	349.8	1037.4
82.5°	33.9	37.9	71.4	106.8	132.7	133.7	50.9	111.3	144.2	320.3
85°	13.5	16.5	47.9	58.9	68.4	65.9	23.0	44.9	51.9	88.8
87.5°	3.0	5.0	17.5	13.5	13.0	14.0	5.5	10.5	10.0	10.5
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°
895.2	0°	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2
901.1	2.5°	900.6	898.7	893.2	887.2	880.2	876.2	873.7	873.2	869.7	867.2
921.1	5°	915.6	913.6	903.1	890.7	877.2	866.7	856.7	847.8	834.8	832.3
950.0	7.5°	945.6	940.1	923.1	906.1	880.7	850.2	813.3	770.9	733.0	721.5
988.5	10°	982.5	975.0	953.5	923.6	867.2	784.4	695.1	612.2	546.4	527.9
1033.9	12.5°	1024.4	1017.9	989.5	934.1	810.8	660.6	523.9	421.1	357.3	341.3
1082.3	15°	1074.3	1064.8	1025.4	918.1	710.0	502.0	359.8	298.9	275.9	272.9
1137.7	17.5°	1127.2	1111.7	1057.3	860.7	574.3	356.8	277.9	260.5	250.5	247.5
1193.5	20°	1175.6	1155.6	1076.3	773.9	429.1	277.9	249.0	237.5	228.5	225.0
1249.4	22.5°	1224.0	1195.5	1076.3	655.7	321.8	246.5	228.5	218.1	207.6	203.1
1309.3	25°	1274.4	1236.5	1057.3	523.9	259.0	226.0	209.1	197.6	188.6	183.1
1366.2	27.5°	1323.3	1270.9	1013.9	399.2	230.5	208.1	191.1	180.1	171.6	167.7
1428.1	30°	1369.7	1304.8	953.0	302.9	212.1	190.6	174.6	165.2	156.7	152.7
1508.4	32.5°	1432.6	1347.7	888.2	248.5	196.1	174.1	159.7	150.7	143.2	140.2
1612.7	35°	1519.9	1411.1	832.3	244.0	182.6	160.7	146.2	137.7	130.2	127.7
1747.4	37.5°	1643.6	1513.4	802.8	273.9	171.6	148.7	135.2	126.2	119.3	117.3
1918.6	40°	1796.3	1652.1	818.8	303.9	164.2	138.2	125.2	116.3	110.3	107.8
2115.1	42.5°	1977.4	1823.2	907.1	326.8	159.2	129.2	115.8	105.8	101.8	100.8
2338.2	45°	2185.5	2011.4	1042.4	351.3	151.2	120.8	106.3	98.8	95.8	95.3
2580.7	47.5°	2422.0	2217.9	1199.0	381.7	143.2	112.8	98.8	93.8	91.3	90.3
2833.7	50°	2656.5	2426.0	1360.2	398.7	136.7	105.3	92.8	88.8	86.8	86.3
3101.1	52.5°	2902.0	2640.1	1490.4	382.7	131.2	99.3	87.8	84.8	82.8	82.3
3347.6	55°	3136.0	2813.2	1512.9	324.8	120.3	93.3	82.3	80.8	78.3	78.3
3597.6	57.5°	3337.6	2900.0	1354.2	238.5	109.3	84.3	76.8	75.3	73.3	72.9
3823.1	60°	3522.7	2875.1	1045.3	160.7	97.3	75.3	69.9	68.9	66.9	64.4
4019.2	62.5°	3627.0	2765.3	715.0	104.8	85.3	65.9	61.9	61.4	56.9	51.9
4164.4	65°	3666.5	2539.8	446.1	76.3	71.4	56.4	53.4	52.4	45.9	40.4
4246.8	67.5°	3632.0	2168.5	225.0	60.4	56.4	46.9	43.9	43.9	39.4	34.4
4241.8	70°	3494.3	1625.7	94.8	48.4	43.4	35.9	35.9	37.9	33.4	27.9
4021.7	72.5°	3195.4	1093.7	50.4	36.9	32.4	25.4	29.4	30.9	26.4	21.0
3291.7	75°	2540.3	667.1	34.9	27.4	20.5	18.0	22.5	23.5	18.0	14.0
2256.9	77.5°	1737.4	383.2	23.5	17.5	13.0	10.5	15.5	14.5	9.5	6.5
870.2	80°	762.9	159.7	13.5	8.0	5.0	4.0	5.5	4.0	3.0	2.0
119.3	82.5°	89.3	37.4	5.0	3.0	2.0	1.0	0.5	0.0	0.0	0.0
36.4	85°	18.5	4.5	2.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
6.5	87.5°	3.5	1.0	0.5	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>
895.2
869.7
831.3
716.0
520.9
336.8
269.9
246.0
223.0
200.6
181.1
167.7
153.2
140.2
127.7
116.8
107.3
100.8
94.8
90.3
86.3
82.3
77.8
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