

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: P946422

Luminaire Tested: **GALN-SB2A-827-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

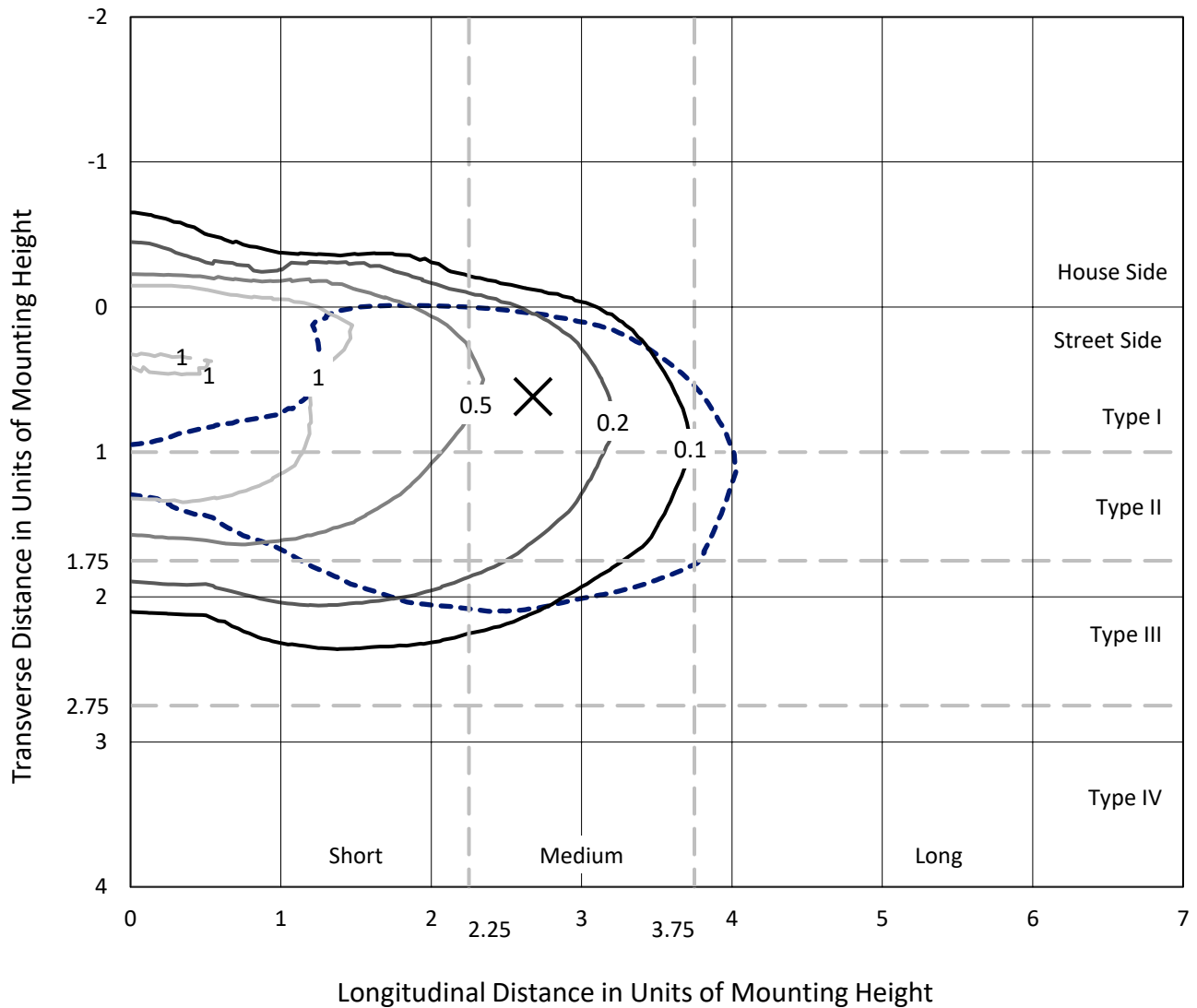
Lumens per Lamp: N/A  
Luminaire Lumens: 6494 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

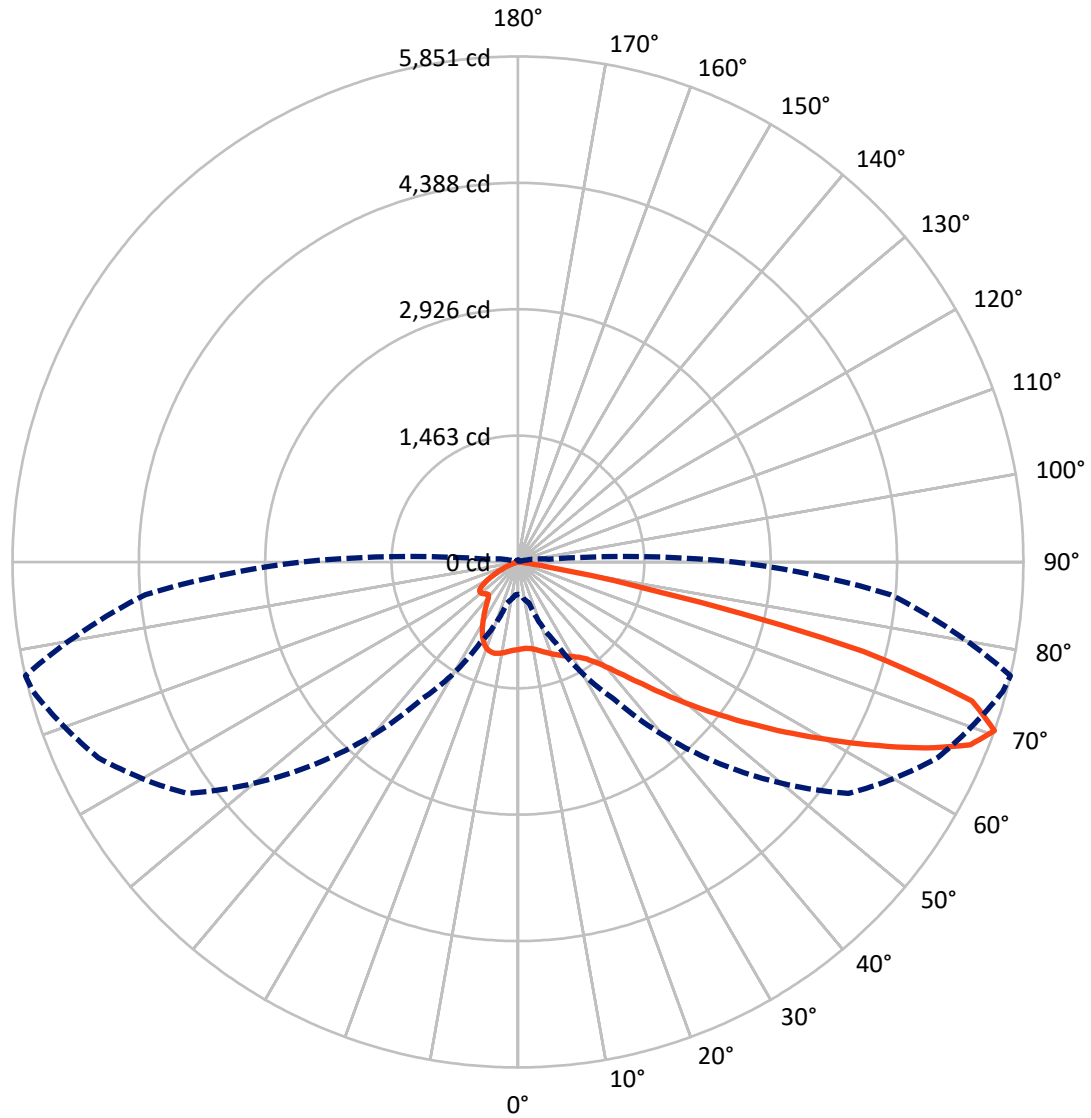
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	684.6	0.0	684.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	5809.4	0.0	5809.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	6494.0	0.0	6494.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.3	1.3
10°-20°	207.2	3.2
20°-30°	320.5	4.9
30°-40°	581.6	9.0
40°-50°	1097.9	16.9
50°-60°	1586.4	24.4
60°-70°	1688.7	26.0
70°-80°	894.9	13.8
80°-90°	29.4	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°	6494.0	100.0
0°-180°	6494.0	100.0

**Coefficient of Utilization**



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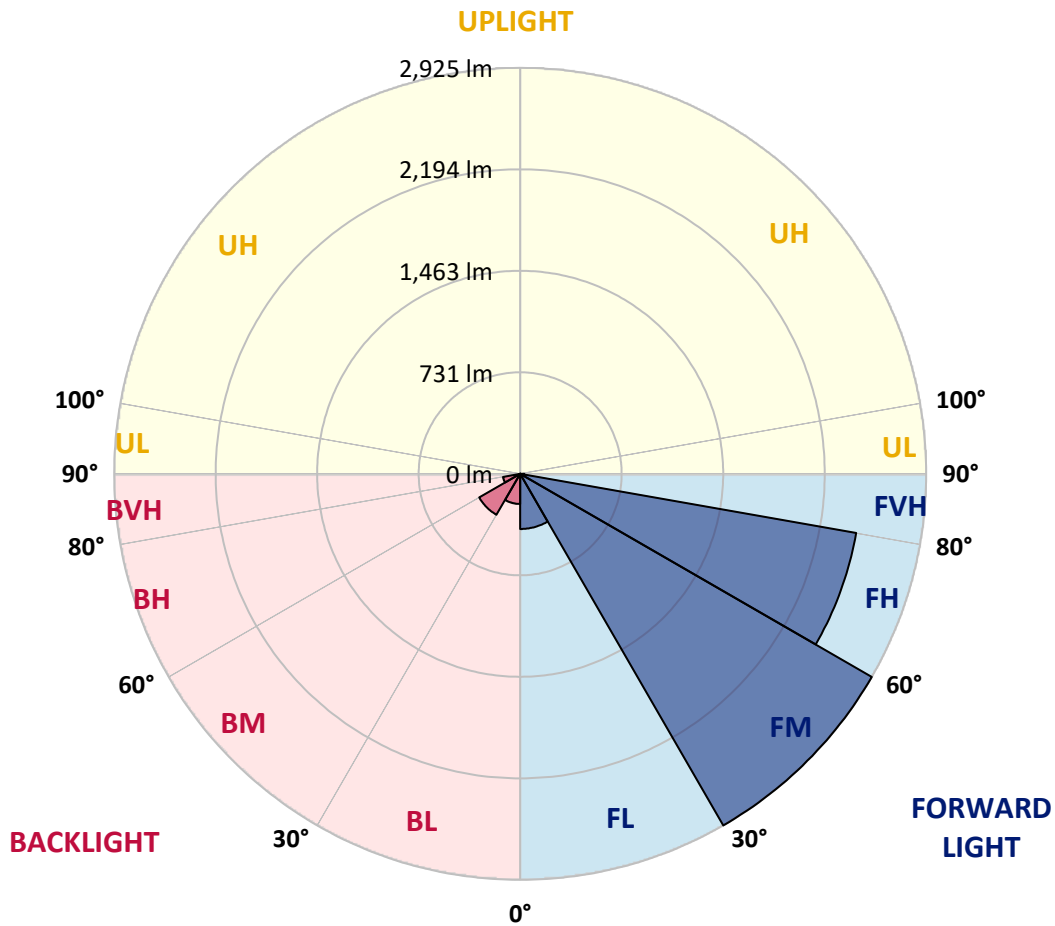
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.6	6.1			
FM (30°-60°)	2925.2	45.0			
FH (60°-80°)	2458.1	37.9			G2/5000
FVH (80°-90°)	28.6	0.4			G1/100
BL (0°-30°)	217.5	3.3	B1/500		
BM (30°-60°)	340.8	5.2	B1/1000		
BH (60°-80°)	125.5	1.9	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9
2.5°	951.0	959.6	958.4	964.1	966.2	974.4	982.6	993.7	1006.0	1005.6
5°	897.3	905.9	908.0	915.8	925.6	938.3	955.1	977.3	1000.2	1003.9
7.5°	833.7	842.8	848.1	863.7	881.7	908.0	935.4	967.8	1006.0	1011.3
10°	770.2	778.4	785.3	807.5	836.2	875.2	919.9	966.6	1017.9	1025.7
12.5°	730.8	738.6	746.4	765.7	801.3	848.9	909.6	972.3	1037.6	1048.6
15°	716.9	723.8	730.0	747.2	780.4	834.6	907.6	984.2	1062.6	1077.3
17.5°	718.9	722.6	726.7	739.8	772.2	828.0	911.2	1004.7	1092.1	1105.2
20°	730.8	732.8	733.3	742.3	771.0	827.2	918.6	1024.4	1120.0	1137.6
22.5°	746.0	746.8	746.0	752.1	778.8	833.3	928.5	1048.2	1151.2	1167.6
25°	816.9	801.3	781.7	769.8	791.9	845.2	943.2	1080.2	1185.2	1201.2
27.5°	1037.1	992.4	921.9	842.8	819.0	862.4	963.7	1112.6	1219.6	1234.0
30°	1394.7	1336.1	1216.4	1038.0	905.9	898.5	990.4	1145.0	1256.1	1271.7
32.5°	1753.2	1738.8	1600.6	1353.7	1101.5	978.9	1034.7	1188.9	1304.5	1316.8
35°	2115.7	2086.6	1973.4	1729.4	1403.0	1142.5	1108.5	1246.3	1368.1	1382.0
37.5°	2393.3	2375.7	2305.6	2104.6	1760.6	1395.2	1234.8	1335.3	1460.4	1475.9
40°	2638.6	2630.4	2606.6	2474.1	2160.4	1725.7	1431.2	1473.1	1588.3	1606.8
42.5°	2831.3	2850.6	2864.1	2827.2	2572.6	2103.0	1695.4	1666.6	1766.7	1785.6
45°	3028.6	3035.1	3089.7	3143.0	2981.8	2497.5	1993.1	1893.4	1988.6	2012.0
47.5°	3155.3	3181.6	3277.5	3371.4	3325.9	2888.7	2313.0	2161.2	2245.7	2289.6
50°	3164.7	3214.4	3346.4	3510.0	3576.5	3261.1	2660.7	2466.3	2556.2	2604.5
52.5°	3007.7	3084.8	3289.4	3528.9	3711.8	3576.5	3020.4	2771.5	2886.7	2949.8
55°	2306.0	2406.9	3074.9	3426.4	3717.1	3815.6	3370.6	3089.3	3255.0	3326.3
57.5°	2009.1	2059.9	2417.5	3248.4	3618.3	3911.9	3687.2	3391.9	3655.6	3744.2
60°	1671.6	1738.4	2027.5	2957.2	3484.2	3921.4	3966.9	3782.4	4089.9	4189.6
62.5°	1136.0	1208.6	1496.0	2456.9	3300.9	3916.9	4196.1	4184.2	4572.6	4679.6
65°	703.7	749.3	938.7	2006.2	3044.6	3921.8	4436.1	4672.3	5082.0	5190.6
67.5°	556.1	577.0	675.8	1540.3	2602.9	3811.1	4675.5	5131.2	5561.4	5647.5
70°	373.6	386.3	491.7	1032.6	1936.5	3300.1	4671.0	5361.6	5808.2	5851.3
72.5°	196.8	206.7	287.5	478.2	1169.6	2345.8	3937.4	5086.1	5562.6	5497.8
75°	98.4	114.8	193.6	242.8	499.5	1308.2	2445.0	4010.0	4378.2	4127.2
77.5°	74.6	90.2	159.9	159.9	173.9	440.4	1035.5	2187.1	2017.3	1679.8
80°	47.6	61.5	139.8	121.0	72.6	112.0	269.8	612.7	428.6	326.0
82.5°	27.9	40.2	116.5	80.0	40.6	41.4	76.3	130.4	111.1	86.5
85°	11.1	26.2	80.0	31.6	16.0	10.3	23.0	27.9	23.0	17.2
87.5°	0.0	6.2	13.9	0.0	1.2	0.8	1.6	2.1	2.1	1.6
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°
1012.9	0°	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9	1012.9
1013.8	2.5°	1017.5	1018.3	1020.7	1021.1	1015.4	1008.0	1005.2	1003.9	999.0	998.6
1020.3	5°	1029.8	1033.5	1029.8	1019.1	993.7	958.0	930.9	908.8	888.7	882.5
1042.9	7.5°	1054.4	1058.1	1047.0	1005.2	941.2	870.2	806.3	761.1	720.5	705.4
1070.4	10°	1089.6	1094.6	1059.7	975.2	862.0	748.0	639.8	563.5	504.0	479.8
1107.7	12.5°	1133.9	1136.0	1066.7	929.7	759.1	596.3	442.9	361.3	308.4	288.7
1152.8	15°	1182.7	1179.9	1067.5	867.8	618.8	421.6	289.1	237.4	216.1	209.6
1197.9	17.5°	1234.0	1222.1	1051.1	778.4	465.1	288.3	214.5	202.2	198.5	196.8
1242.6	20°	1284.4	1257.8	1021.1	661.5	333.8	215.3	194.8	191.1	189.1	188.2
1287.7	22.5°	1330.4	1284.8	969.9	525.7	242.4	190.3	184.1	180.9	177.2	175.5
1331.6	25°	1375.1	1300.4	897.7	399.0	194.0	178.0	173.1	166.9	162.0	159.9
1378.8	27.5°	1418.5	1310.3	807.5	295.3	173.1	166.5	157.5	148.9	145.2	144.4
1429.2	30°	1464.9	1313.5	705.0	220.2	160.3	152.1	139.0	129.2	127.1	127.5
1497.3	32.5°	1521.5	1318.5	601.6	180.4	149.7	134.9	119.3	109.1	107.4	109.1
1596.5	35°	1589.1	1328.3	502.0	166.1	140.3	117.3	100.5	91.9	90.2	91.5
1723.6	37.5°	1681.0	1344.3	408.9	163.2	132.5	102.5	84.5	77.5	77.5	77.9
1879.5	40°	1803.2	1387.0	325.6	161.2	128.4	91.5	71.4	68.5	69.7	70.5
2078.0	42.5°	1952.1	1477.6	269.4	158.7	123.9	86.5	64.8	63.6	65.6	66.4
2315.8	45°	2119.0	1592.4	249.8	154.6	119.7	89.8	61.9	60.3	62.7	63.2
2582.4	47.5°	2291.6	1704.8	247.3	150.1	115.6	94.7	61.1	57.4	60.3	60.7
2867.0	50°	2466.3	1778.2	249.8	143.1	109.1	94.7	61.5	54.5	57.0	58.2
3162.3	52.5°	2642.3	1811.8	248.1	128.0	97.6	89.0	61.5	52.1	54.5	55.4
3481.3	55°	2812.9	1805.3	223.1	105.4	82.8	78.7	59.9	50.0	51.7	52.1
3782.8	57.5°	2947.8	1713.8	176.8	82.0	67.3	65.6	54.5	47.6	48.8	48.4
4059.2	60°	3018.3	1512.9	126.3	63.2	52.9	51.7	48.0	44.3	45.1	43.1
4293.3	62.5°	3019.2	1247.1	84.5	50.0	42.2	41.0	41.0	39.8	39.0	34.9
4474.6	65°	2954.8	952.3	56.2	39.8	34.0	32.0	34.4	34.0	31.2	25.4
4530.0	67.5°	2808.8	624.2	42.7	31.2	26.2	25.0	27.5	28.7	26.7	21.3
4328.2	70°	2508.6	363.3	35.3	24.2	19.7	18.5	22.1	24.6	22.1	17.2
3699.5	72.5°	2083.7	196.0	28.7	18.0	13.5	12.3	17.6	20.1	17.6	12.7
2373.7	75°	1352.1	105.0	22.1	11.9	7.0	7.8	13.1	14.8	12.3	8.2
696.8	77.5°	454.0	46.3	13.9	5.7	3.3	3.3	7.8	9.0	5.7	2.9
126.7	80°	101.3	19.3	5.7	2.5	1.2	1.2	1.6	1.6	0.8	0.0
39.0	82.5°	33.2	7.8	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
9.8	85°	12.7	2.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.3	87.5°	4.9	0.4	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°
1012.9
999.4
878.8
699.2
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187.4
175.1
159.1
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127.5
108.7
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