

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: P939156

Luminaire Tested: **GALN-SB1C-840-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939156  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-840-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

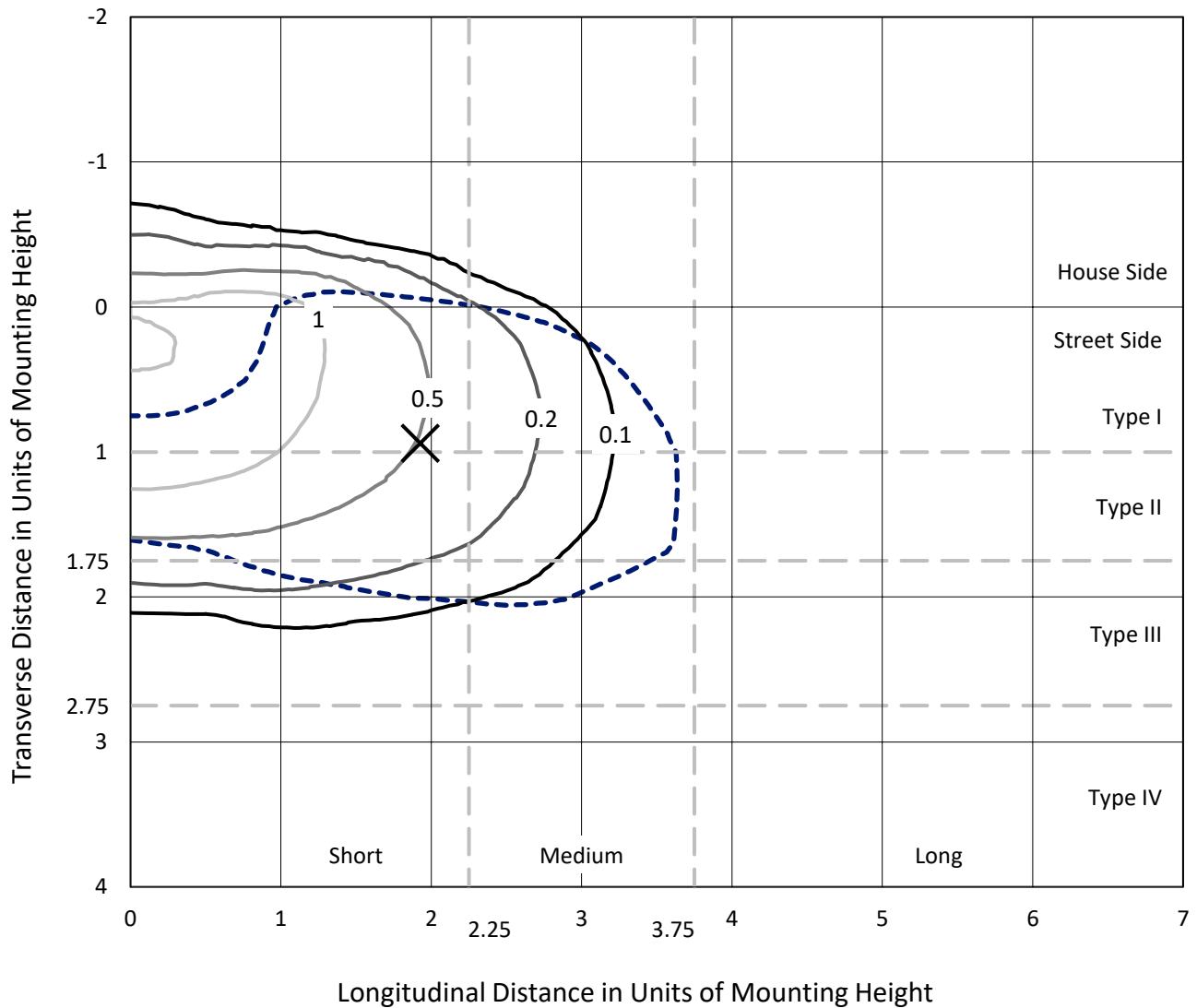
Lumens per Lamp: N/A  
Luminaire Lumens: 5620 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

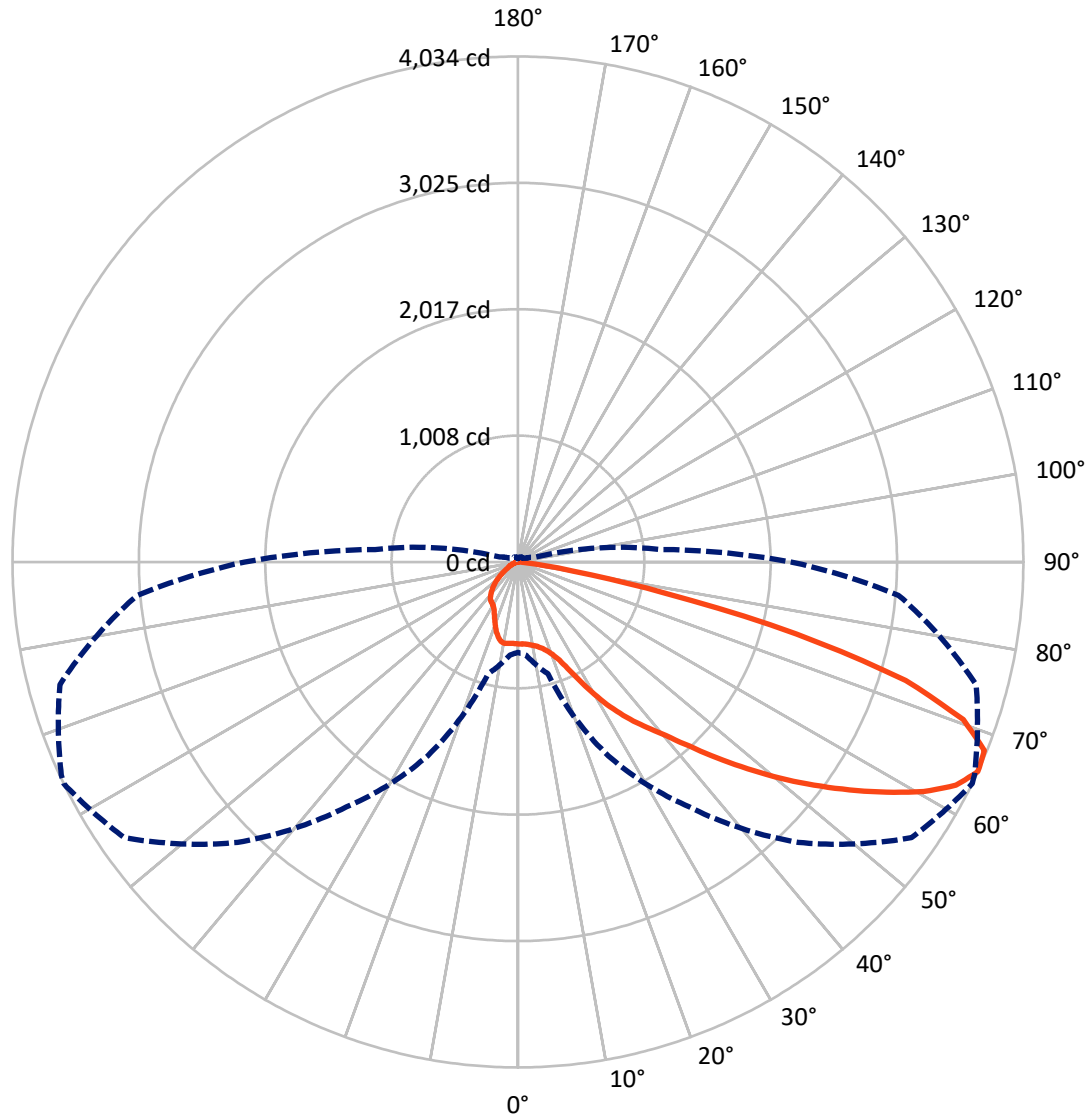
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	751.6	0.0	751.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	4868.4	0.0	4868.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	5620.0	0.0	5620.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.3	1.1
10°-20°	163.6	2.9
20°-30°	310.0	5.5
30°-40°	627.2	11.2
40°-50°	1068.4	19.0
50°-60°	1453.0	25.9
60°-70°	1364.4	24.3
70°-80°	546.6	9.7
80°-90°	26.5	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°	5620.0	100.0
0°-180°	5620.0	100.0

**Coefficient of Utilization**



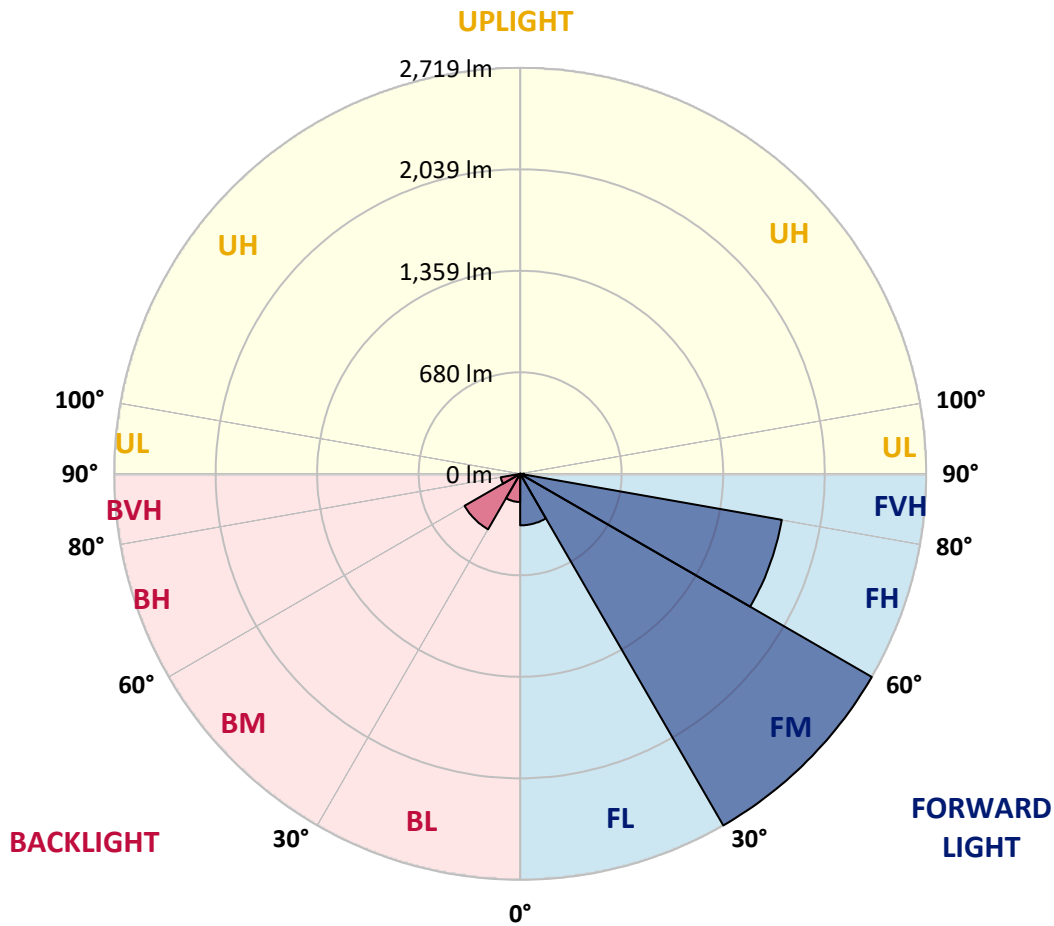
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.1	6.1			
FM (30°-60°)	2718.9	48.4			
FH (60°-80°)	1779.2	31.7			G1/1800
FVH (80°-90°)	25.2	0.4			G1/100
BL (0°-30°)	188.7	3.4	B1/500		
BM (30°-60°)	429.7	7.6	B1/1000		
BH (60°-80°)	131.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	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-G1**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	651.4	655.9	654.8	653.7	653.3	654.0	654.4	654.0	654.0	654.0
5°	639.0	642.7	642.7	645.4	649.1	653.7	657.1	657.8	658.6	659.7
7.5°	615.2	618.2	620.5	629.2	638.6	650.7	660.8	666.1	666.9	671.0
10°	599.0	602.8	606.6	615.6	629.2	647.3	664.6	677.4	679.3	689.1
12.5°	598.3	602.0	606.9	616.7	632.6	651.8	672.9	691.3	694.7	709.0
15°	606.2	610.7	615.2	627.3	644.2	667.6	690.2	713.2	716.6	736.9
17.5°	622.4	628.4	631.8	643.9	662.0	687.9	717.7	744.1	747.1	770.8
20°	654.4	661.6	662.7	672.5	690.2	718.1	753.5	786.3	790.0	817.2
22.5°	720.7	730.9	721.9	726.8	742.6	770.5	808.9	850.3	855.6	886.5
25°	837.5	851.8	828.5	820.2	827.0	856.0	904.2	956.6	962.6	987.5
27.5°	1067.0	1048.5	1013.1	978.4	958.1	974.7	1028.9	1093.7	1101.2	1125.4
30°	1319.0	1302.8	1255.0	1178.1	1129.9	1127.2	1177.3	1249.7	1258.4	1281.3
32.5°	1571.4	1556.0	1504.0	1409.4	1325.8	1284.3	1319.0	1399.3	1403.8	1418.5
35°	1819.7	1803.9	1751.9	1655.1	1552.2	1458.0	1451.2	1541.7	1543.2	1558.6
37.5°	2069.5	2056.3	2000.9	1906.0	1804.6	1674.7	1611.7	1676.5	1678.4	1693.5
40°	2247.7	2253.4	2215.3	2141.8	2054.8	1912.8	1791.8	1820.1	1808.8	1834.0
42.5°	2400.7	2412.0	2378.8	2341.9	2291.4	2166.3	2014.9	2010.0	1991.9	2005.4
45°	2532.9	2542.3	2512.6	2503.9	2502.8	2415.0	2258.6	2229.2	2204.0	2201.4
47.5°	2581.5	2599.6	2612.4	2641.4	2697.9	2661.0	2510.7	2465.1	2436.8	2416.1
50°	2600.0	2619.2	2662.9	2747.3	2881.0	2896.8	2761.6	2710.4	2675.7	2638.0
52.5°	2575.1	2609.4	2668.2	2810.2	3004.2	3086.0	3002.3	2957.5	2917.9	2856.5
55°	2428.5	2462.8	2583.0	2809.4	3065.6	3218.6	3229.9	3209.9	3165.5	3068.6
57.5°	2119.6	2170.5	2360.7	2713.7	3064.5	3332.7	3452.9	3467.2	3417.5	3278.9
60°	1691.6	1760.6	1992.6	2501.6	2969.9	3394.5	3648.5	3720.0	3667.3	3486.1
62.5°	1180.4	1260.2	1479.9	2169.3	2753.7	3350.1	3791.3	3923.5	3883.6	3671.4
65°	720.0	745.6	922.7	1707.1	2386.0	3164.0	3835.3	4033.5	4020.3	3784.8
67.5°	479.6	501.1	551.9	1170.6	1852.1	2792.1	3729.8	4014.3	4018.1	3766.4
70°	289.0	307.4	340.6	680.8	1200.3	2210.0	3403.2	3769.4	3791.3	3519.6
72.5°	119.1	131.5	161.6	308.6	621.6	1402.6	2710.0	3236.3	3287.2	2959.4
75°	67.4	73.8	94.9	154.8	269.8	653.7	1641.5	2297.4	2372.4	2039.7
77.5°	44.8	47.8	61.4	100.2	151.8	223.0	701.5	1196.9	1340.1	1114.1
80°	30.1	32.8	42.2	67.1	98.7	95.7	223.4	443.4	545.5	382.8
82.5°	20.3	20.7	30.1	44.1	62.5	46.3	65.9	137.9	173.3	110.8
85°	11.7	11.3	22.2	25.6	27.9	19.2	20.0	41.4	54.3	46.7
87.5°	1.5	2.3	8.7	6.8	3.8	4.1	4.1	7.2	10.5	11.3
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°
653.7	0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
654.4	2.5°	654.4	654.0	652.9	651.8	649.1	647.6	648.4	647.6	647.3	647.6
659.3	5°	659.3	658.2	655.2	651.4	646.1	639.7	635.6	629.6	623.9	620.5
672.5	7.5°	672.5	671.4	667.2	656.7	639.7	613.0	588.5	567.0	550.8	541.4
693.6	10°	693.6	691.7	685.3	662.0	617.5	559.1	510.5	470.2	443.8	431.4
718.5	12.5°	718.5	716.2	704.9	657.1	575.3	484.1	417.1	372.2	347.7	336.8
747.1	15°	747.9	744.8	722.6	633.7	513.9	401.2	339.8	306.3	290.5	280.7
783.6	17.5°	784.4	779.1	735.8	598.7	447.2	337.9	292.4	267.1	253.2	243.8
831.5	20°	831.9	823.2	746.3	556.8	385.8	298.0	260.3	239.2	228.7	220.4
899.3	22.5°	898.2	885.7	759.2	511.6	342.5	270.5	236.6	221.2	212.5	203.1
993.9	25°	980.3	965.6	775.0	469.8	312.7	246.8	219.3	206.5	196.3	185.4
1117.8	27.5°	1095.2	1068.8	793.8	435.5	287.1	226.4	203.4	189.1	177.5	168.4
1258.4	30°	1223.3	1180.0	810.4	414.8	263.7	207.6	182.7	168.4	157.5	151.1
1384.6	32.5°	1344.6	1285.9	821.3	405.8	242.6	186.1	160.1	144.7	136.4	134.5
1508.1	35°	1459.2	1381.5	820.2	397.1	223.8	164.6	137.9	122.1	115.7	116.8
1641.1	37.5°	1591.0	1483.6	812.3	383.5	208.3	145.0	118.7	104.7	99.1	99.5
1802.8	40°	1744.4	1601.6	807.4	357.9	191.4	127.0	102.9	91.6	87.4	85.9
1973.0	42.5°	1907.9	1715.7	808.1	328.9	170.3	110.8	91.9	82.5	78.7	77.6
2162.6	45°	2072.1	1824.6	809.3	298.8	148.1	98.3	84.0	76.1	73.8	72.3
2354.7	47.5°	2226.6	1917.3	788.2	266.4	126.2	88.9	77.6	72.3	70.5	68.6
2547.6	50°	2370.5	1979.1	737.3	228.7	108.9	81.4	72.7	68.9	67.1	65.2
2722.4	52.5°	2482.4	1988.9	653.3	189.9	96.8	75.7	69.7	66.3	64.0	62.2
2863.7	55°	2532.1	1927.5	533.9	153.7	87.4	70.8	66.7	63.3	60.7	58.8
2974.8	57.5°	2519.3	1798.2	416.3	123.6	78.4	65.9	62.9	60.7	57.6	54.6
3064.9	60°	2456.4	1625.3	313.8	102.9	70.1	60.7	58.8	56.9	52.7	48.2
3099.5	62.5°	2347.5	1407.9	223.8	85.1	61.0	54.6	53.9	52.4	46.3	38.1
3048.3	65°	2181.0	1143.8	150.7	70.8	52.4	47.8	48.2	45.6	37.7	28.3
2860.7	67.5°	1937.6	836.4	96.4	58.0	43.7	39.9	40.3	38.8	32.0	24.1
2505.0	70°	1627.6	553.8	62.9	44.1	35.0	30.9	33.2	33.5	27.1	19.6
1922.6	72.5°	1193.2	327.0	44.1	32.8	25.6	21.5	27.1	27.9	21.9	14.7
1156.6	75°	680.0	155.2	33.2	23.7	15.8	15.1	21.1	21.1	15.1	9.8
500.7	77.5°	285.6	64.8	23.4	15.4	9.0	8.7	14.3	13.2	7.5	4.5
122.1	80°	82.5	29.0	12.4	7.5	3.8	3.4	5.7	4.1	1.9	0.8
46.3	82.5°	32.4	12.8	4.9	3.0	1.5	1.5	0.8	0.0	0.0	0.0
26.4	85°	19.2	5.3	2.3	1.1	0.4	0.0	0.0	0.0	0.0	0.0
5.7	87.5°	4.9	1.1	0.8	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>
653.7
649.1
621.3
541.8
430.3
335.7
281.1
243.0
218.9
201.6
184.2
166.5
149.9
135.6
116.8
101.0
85.5
77.2
72.3
68.6
65.2
61.8
58.4
54.3
47.5
37.3
27.5
23.0
18.8
13.9
9.0
4.5
0.8
0.0
0.0
0.0
0.0

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