

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: P945435

Luminaire Tested: **GALN-SB1B-850-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945435  
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-SB1B-850-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

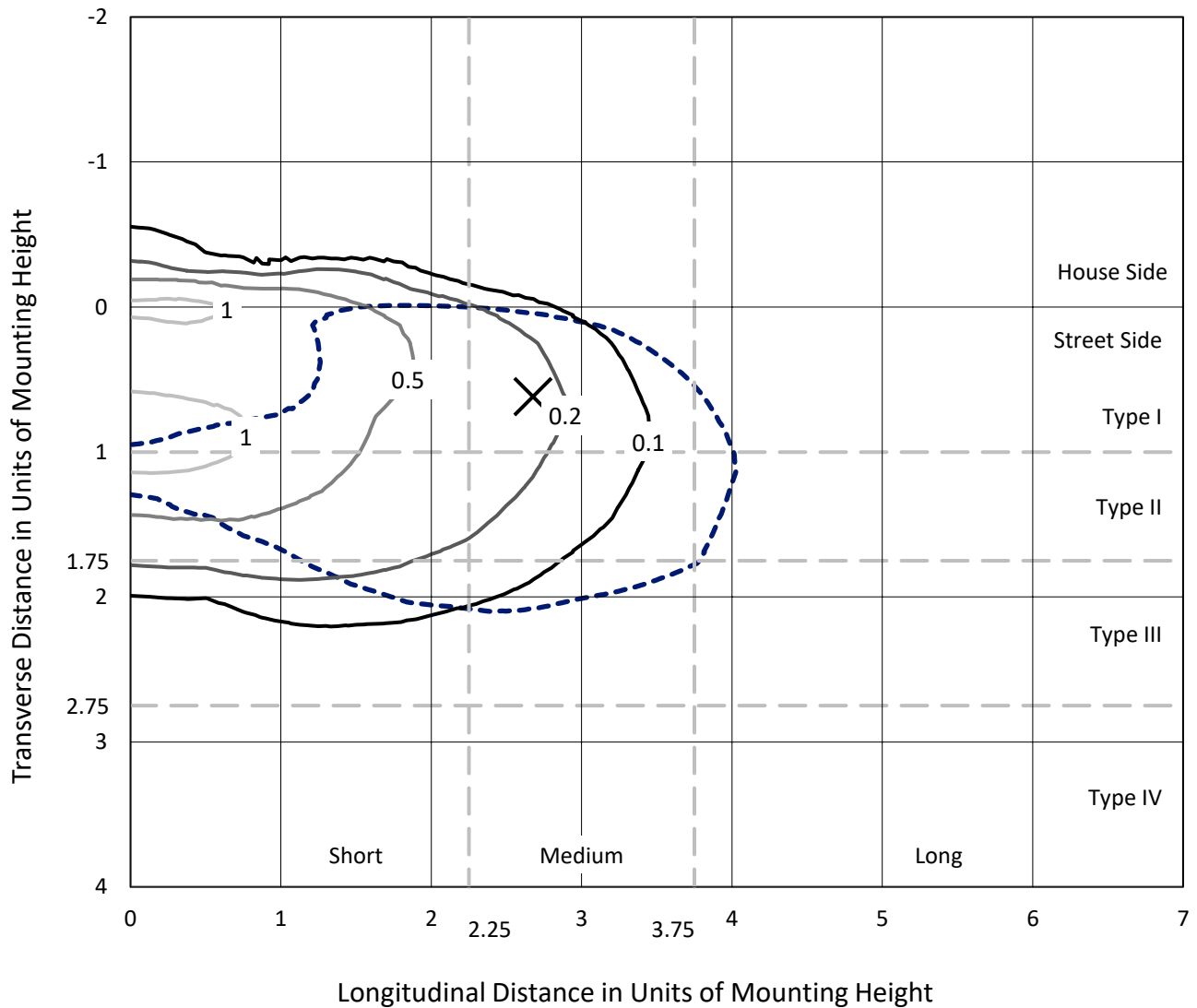
Lumens per Lamp: N/A  
Luminaire Lumens: 4486 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): 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

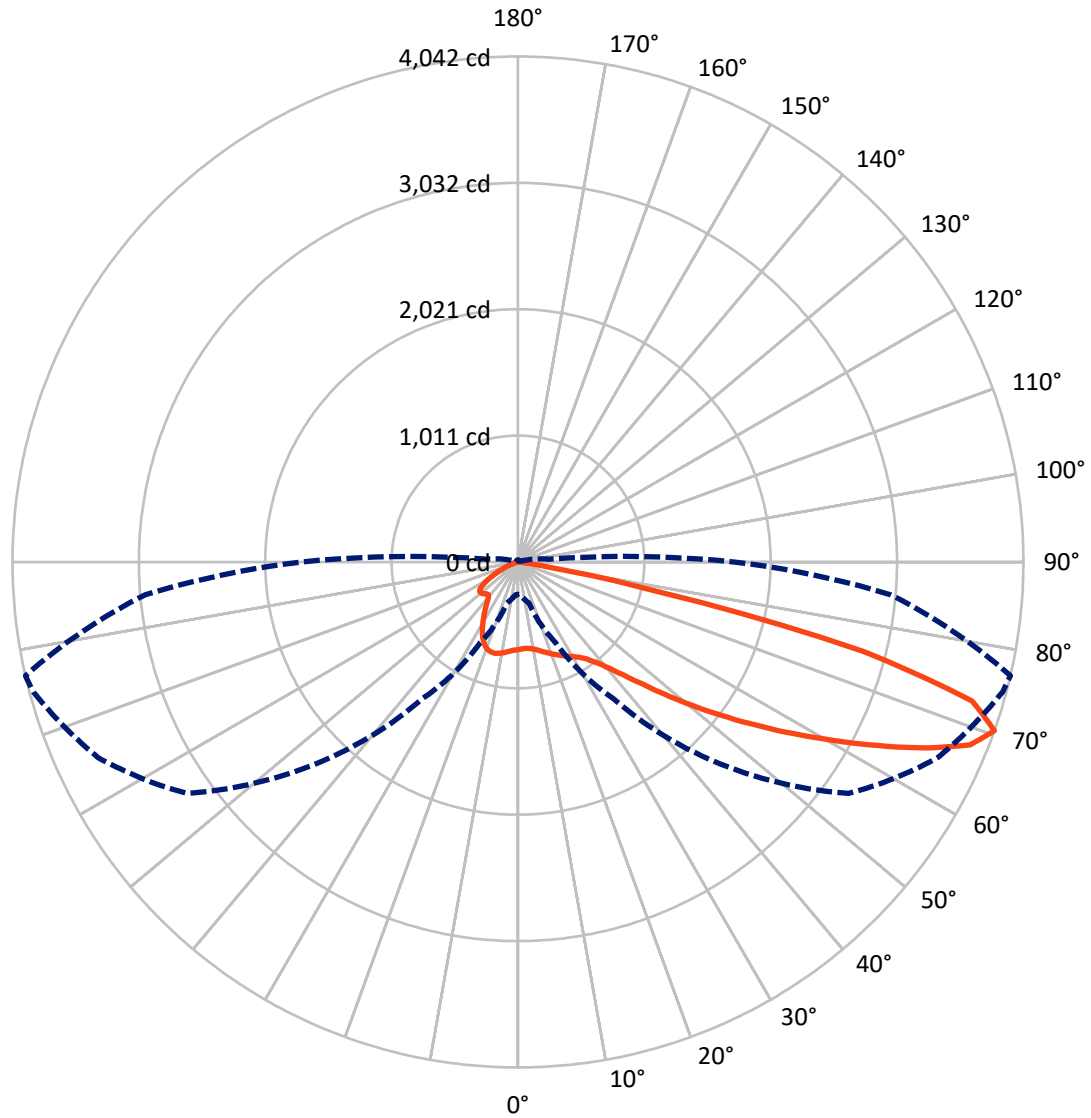
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	472.9	0.0	472.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	4013.1	0.0	4013.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	4486.0	0.0	4486.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.3	1.3
10°-20°	143.2	3.2
20°-30°	221.4	4.9
30°-40°	401.8	9.0
40°-50°	758.4	16.9
50°-60°	1095.9	24.4
60°-70°	1166.5	26.0
70°-80°	618.2	13.8
80°-90°	20.3	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°	4486.0	100.0
0°-180°	4486.0	100.0

**Coefficient of Utilization**



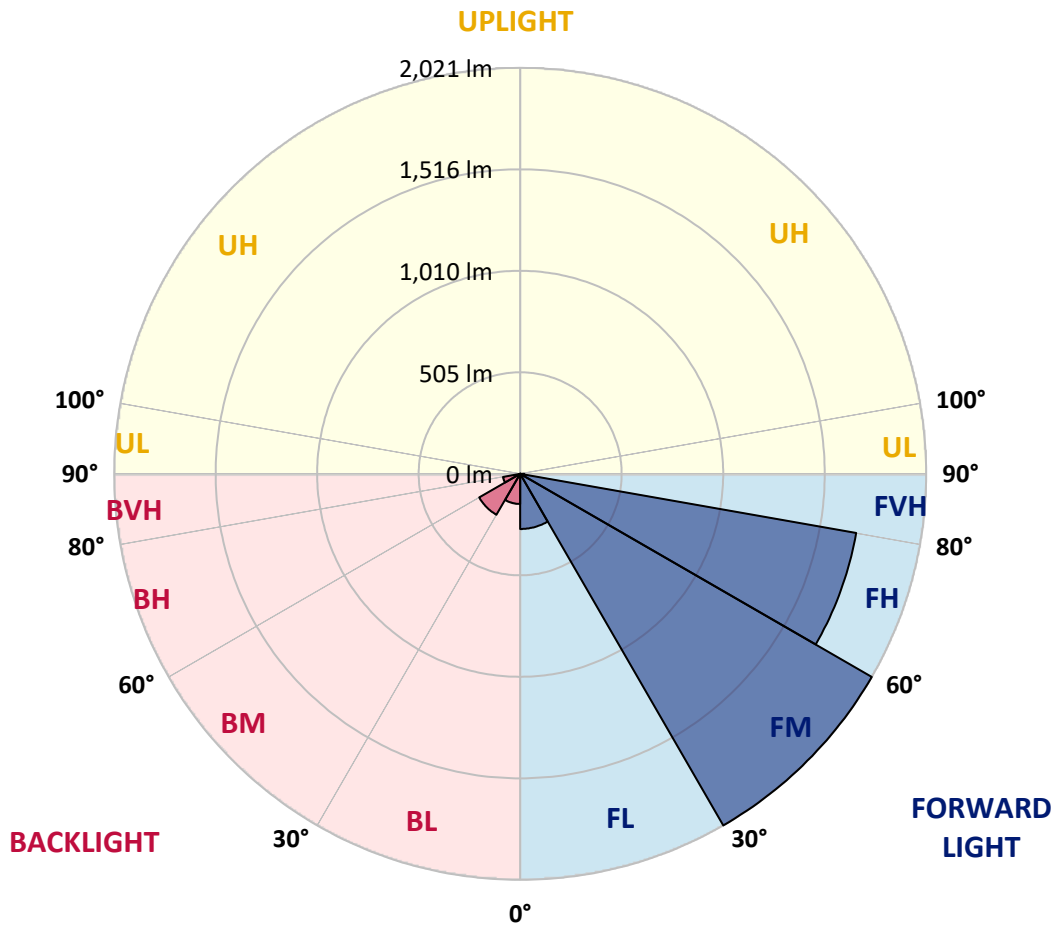
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	274.7	6.1			
FM (30°-60°)	2020.7	45.0			
FH (60°-80°)	1698.0	37.9			G1/1800
FVH (80°-90°)	19.7	0.4			G1/100
BL (0°-30°)	150.2	3.3	B1/500		
BM (30°-60°)	235.4	5.2	B1/1000		
BH (60°-80°)	86.7	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7
2.5°	657.0	662.9	662.1	666.0	667.4	673.1	678.8	686.4	694.9	694.6
5°	619.8	625.8	627.2	632.6	639.4	648.2	659.8	675.1	691.0	693.5
7.5°	575.9	582.2	585.9	596.6	609.1	627.2	646.2	668.6	694.9	698.6
10°	532.0	537.7	542.5	557.8	577.6	604.5	635.4	667.7	703.1	708.5
12.5°	504.8	510.2	515.6	528.9	553.6	586.4	628.3	671.7	716.7	724.4
15°	495.2	500.0	504.3	516.2	539.1	576.5	626.9	679.9	734.0	744.2
17.5°	496.6	499.2	502.0	511.1	533.4	572.0	629.5	694.1	754.4	763.5
20°	504.8	506.2	506.5	512.8	532.6	571.4	634.6	707.7	773.7	785.9
22.5°	515.3	515.9	515.3	519.6	538.0	575.7	641.4	724.1	795.2	806.5
25°	564.3	553.6	540.0	531.7	547.0	583.9	651.6	746.2	818.7	829.8
27.5°	716.4	685.6	636.8	582.2	565.7	595.8	665.7	768.6	842.5	852.4
30°	963.5	923.0	840.2	717.0	625.8	620.7	684.2	791.0	867.7	878.5
32.5°	1211.1	1201.2	1105.7	935.2	760.9	676.2	714.7	821.3	901.2	909.7
35°	1461.5	1441.4	1363.2	1194.6	969.1	789.3	765.7	860.9	945.1	954.7
37.5°	1653.3	1641.1	1592.7	1453.9	1216.2	963.8	853.0	922.4	1008.8	1019.6
40°	1822.7	1817.0	1800.6	1709.1	1492.4	1192.1	988.7	1017.6	1097.2	1109.9
42.5°	1955.9	1969.2	1978.5	1953.0	1777.1	1452.7	1171.1	1151.3	1220.4	1233.5
45°	2092.1	2096.7	2134.3	2171.2	2059.8	1725.3	1376.8	1308.0	1373.7	1389.8
47.5°	2179.7	2197.8	2264.1	2329.0	2297.5	1995.5	1597.8	1493.0	1551.3	1581.6
50°	2186.2	2220.5	2311.7	2424.7	2470.6	2252.8	1838.0	1703.7	1765.8	1799.2
52.5°	2077.7	2130.9	2272.3	2437.7	2564.1	2470.6	2086.5	1914.5	1994.1	2037.7
55°	1593.0	1662.6	2124.1	2366.9	2567.8	2635.8	2328.4	2134.1	2248.5	2297.8
57.5°	1387.9	1423.0	1670.0	2244.0	2499.5	2702.3	2547.1	2343.1	2525.3	2586.5
60°	1154.7	1200.9	1400.6	2042.8	2406.9	2708.9	2740.3	2612.8	2825.3	2894.1
62.5°	784.7	834.9	1033.5	1697.2	2280.2	2705.7	2898.7	2890.4	3158.7	3232.7
65°	486.1	517.6	648.5	1385.9	2103.2	2709.1	3064.4	3227.6	3510.6	3585.6
67.5°	384.1	398.6	466.9	1064.1	1798.1	2632.6	3229.8	3544.6	3841.7	3901.2
70°	258.1	266.9	339.7	713.3	1337.7	2279.7	3226.7	3703.8	4012.3	4042.0
72.5°	136.0	142.8	198.6	330.3	808.0	1620.4	2719.9	3513.4	3842.6	3797.8
75°	68.0	79.3	133.7	167.7	345.1	903.7	1689.0	2770.0	3024.4	2851.1
77.5°	51.6	62.3	110.5	110.5	120.1	304.3	715.3	1510.8	1393.5	1160.4
80°	32.9	42.5	96.6	83.6	50.1	77.3	186.4	423.2	296.0	225.2
82.5°	19.3	27.8	80.5	55.2	28.0	28.6	52.7	90.1	76.8	59.8
85°	7.6	18.1	55.2	21.8	11.0	7.1	15.9	19.3	15.9	11.9
87.5°	0.0	4.2	9.6	0.0	0.8	0.6	1.1	1.4	1.4	1.1
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°
699.7	0°	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7
700.3	2.5°	702.9	703.4	705.1	705.4	701.4	696.3	694.4	693.5	690.1	689.8
704.8	5°	711.4	713.9	711.4	704.0	686.4	661.8	643.1	627.8	613.9	609.6
720.4	7.5°	728.3	730.9	723.2	694.4	650.2	601.1	557.0	525.8	497.7	487.3
739.4	10°	752.7	756.1	732.0	673.7	595.5	516.7	441.9	389.2	348.2	331.5
765.2	12.5°	783.3	784.7	736.8	642.2	524.4	411.9	306.0	249.6	213.0	199.4
796.3	15°	817.0	815.0	737.4	599.4	427.5	291.2	199.7	164.0	149.3	144.8
827.5	17.5°	852.4	844.2	726.1	537.7	321.3	199.2	148.2	139.7	137.1	136.0
858.4	20°	887.3	868.9	705.4	457.0	230.6	148.7	134.6	132.0	130.6	130.0
889.5	22.5°	919.0	887.6	670.0	363.2	167.4	131.4	127.2	124.9	122.4	121.2
919.9	25°	949.9	898.3	620.1	275.6	134.0	122.9	119.5	115.3	111.9	110.5
952.4	27.5°	979.9	905.1	557.8	204.0	119.5	115.0	108.8	102.8	100.3	99.7
987.3	30°	1011.9	907.4	487.0	152.1	110.8	105.1	96.0	89.2	87.8	88.1
1034.3	32.5°	1051.0	910.8	415.6	124.6	103.4	93.2	82.4	75.4	74.2	75.4
1102.9	35°	1097.8	917.6	346.8	114.7	96.9	81.0	69.4	63.5	62.3	63.2
1190.7	37.5°	1161.2	928.6	282.4	112.8	91.5	70.8	58.4	53.5	53.5	53.8
1298.3	40°	1245.6	958.1	224.9	111.3	88.7	63.2	49.3	47.3	48.2	48.7
1435.4	42.5°	1348.5	1020.7	186.1	109.6	85.6	59.8	44.8	43.9	45.3	45.9
1599.8	45°	1463.8	1100.0	172.5	106.8	82.7	62.0	42.8	41.6	43.3	43.6
1783.9	47.5°	1583.0	1177.7	170.8	103.7	79.9	65.4	42.2	39.7	41.6	41.9
1980.5	50°	1703.7	1228.4	172.5	98.9	75.4	65.4	42.5	37.7	39.4	40.2
2184.5	52.5°	1825.3	1251.6	171.4	88.4	67.4	61.5	42.5	36.0	37.7	38.2
2404.9	55°	1943.1	1247.1	154.1	72.8	57.2	54.4	41.4	34.6	35.7	36.0
2613.1	57.5°	2036.3	1183.9	122.1	56.7	46.5	45.3	37.7	32.9	33.7	33.4
2804.0	60°	2085.0	1045.1	87.3	43.6	36.5	35.7	33.1	30.6	31.2	29.7
2965.8	62.5°	2085.6	861.5	58.4	34.6	29.2	28.3	28.3	27.5	26.9	24.1
3091.0	65°	2041.1	657.8	38.8	27.5	23.5	22.1	23.8	23.5	21.5	17.6
3129.3	67.5°	1940.3	431.2	29.5	21.5	18.1	17.3	19.0	19.8	18.4	14.7
2989.9	70°	1732.9	251.0	24.4	16.7	13.6	12.7	15.3	17.0	15.3	11.9
2555.6	72.5°	1439.4	135.4	19.8	12.5	9.3	8.5	12.2	13.9	12.2	8.8
1639.7	75°	934.0	72.5	15.3	8.2	4.8	5.4	9.1	10.2	8.5	5.7
481.3	77.5°	313.6	32.0	9.6	4.0	2.3	2.3	5.4	6.2	4.0	2.0
87.5	80°	70.0	13.3	4.0	1.7	0.8	0.8	1.1	1.1	0.6	0.0
26.9	82.5°	22.9	5.4	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
6.8	85°	8.8	2.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.3	87.5°	3.4	0.3	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>
699.7
690.4
607.1
483.0
324.4
195.2
144.8
135.7
129.5
121.0
109.9
99.2
88.1
75.1
62.9
53.5
48.7
45.9
43.9
42.2
40.5
38.2
36.0
33.4
29.5
23.2
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