

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: P945393

Luminaire Tested: **GALN-SB1B-835-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945393  
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-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

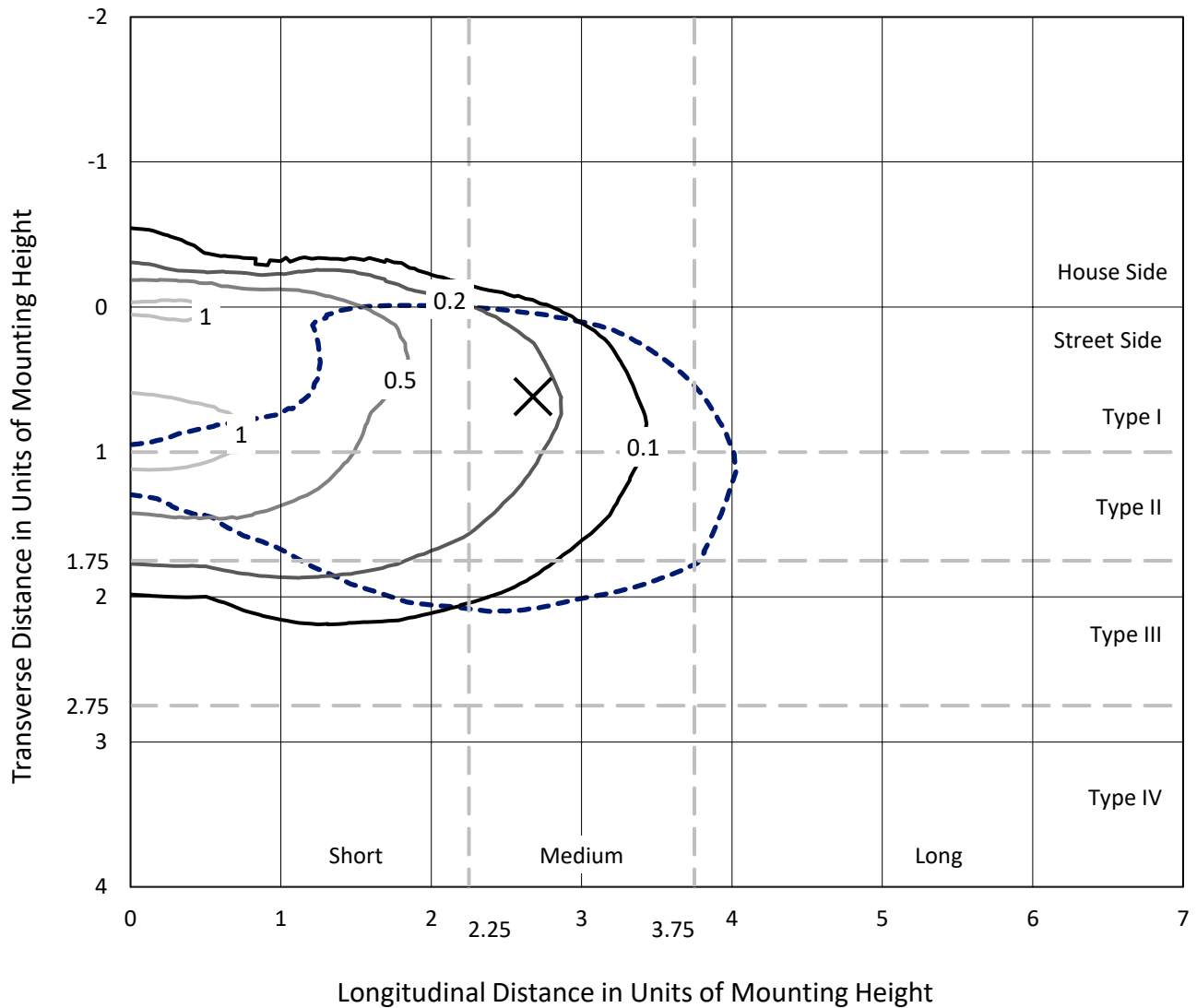
Lumens per Lamp: N/A  
Luminaire Lumens: 4350 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): 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

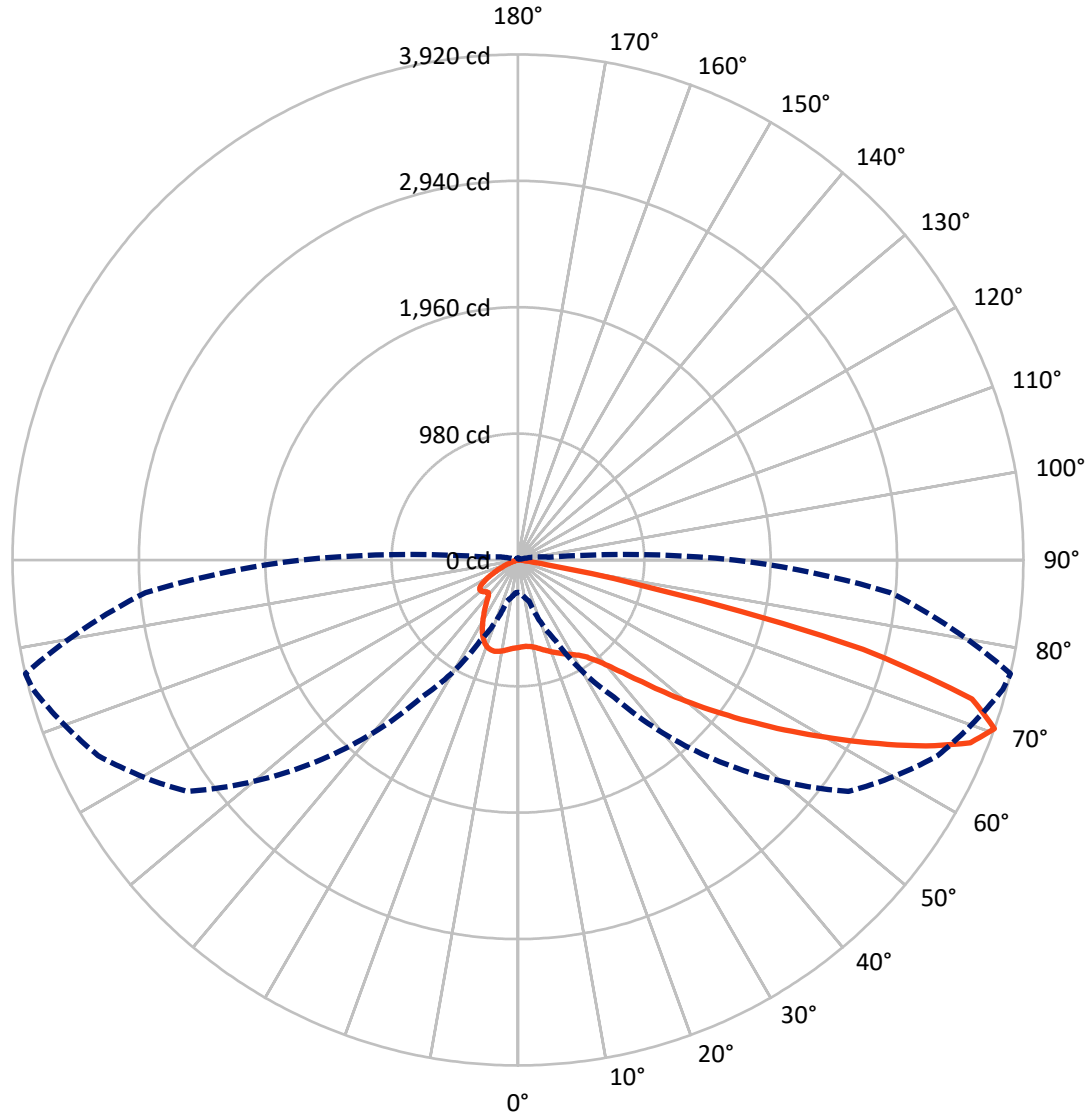
✕ Max cd  
 - - - 1/2 Max cd



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	458.5	0.0	458.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3891.5	0.0	3891.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	4350.0	0.0	4350.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.5	1.3
10°-20°	138.8	3.2
20°-30°	214.7	4.9
30°-40°	389.6	9.0
40°-50°	735.4	16.9
50°-60°	1062.6	24.4
60°-70°	1131.2	26.0
70°-80°	599.4	13.8
80°-90°	19.7	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°	4350.0	100.0
0°-180°	4350.0	100.0

**Coefficient of Utilization**



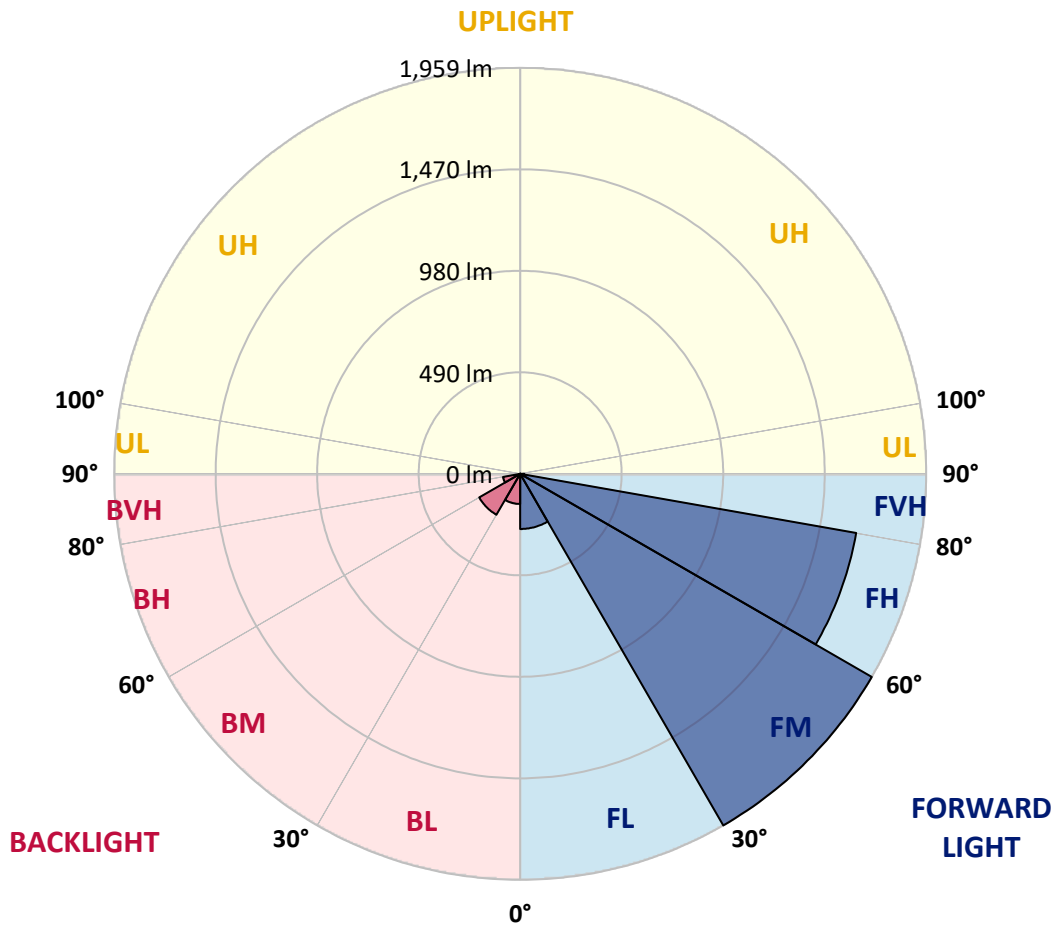
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	266.3	6.1			
FM (30°-60°)	1959.4	45.0			
FH (60°-80°)	1646.5	37.9			G1/1800
FVH (80°-90°)	19.2	0.4			G1/100
BL (0°-30°)	145.7	3.3	B1/500		
BM (30°-60°)	228.3	5.2	B1/1000		
BH (60°-80°)	84.1	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°	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5
2.5°	637.0	642.8	642.0	645.8	647.2	652.7	658.2	665.6	673.9	673.6
5°	601.1	606.8	608.2	613.4	620.0	628.5	639.8	654.6	670.0	672.5
7.5°	558.5	564.5	568.1	578.5	590.6	608.2	626.6	648.3	673.9	677.4
10°	515.9	521.4	526.1	540.9	560.1	586.2	616.2	647.5	681.8	687.0
12.5°	489.5	494.7	500.0	512.9	536.8	568.6	609.3	651.3	695.0	702.4
15°	480.2	484.9	489.0	500.5	522.8	559.0	607.9	659.3	711.8	721.7
17.5°	481.6	484.0	486.8	495.6	517.3	554.6	610.4	673.0	731.5	740.3
20°	489.5	490.9	491.2	497.2	516.4	554.1	615.3	686.2	750.2	762.0
22.5°	499.7	500.2	499.7	503.8	521.7	558.2	621.9	702.1	771.1	782.1
25°	547.2	536.8	523.6	515.6	530.5	566.2	631.8	723.6	793.9	804.6
27.5°	694.7	664.8	617.5	564.5	548.6	577.7	645.6	745.3	817.0	826.6
30°	934.3	895.0	814.8	695.3	606.8	601.9	663.4	767.0	841.4	851.9
32.5°	1174.4	1164.7	1072.2	906.8	737.9	655.7	693.1	796.4	873.8	882.1
35°	1417.2	1397.7	1321.9	1158.4	939.8	765.3	742.5	834.8	916.4	925.8
37.5°	1603.2	1591.4	1544.4	1409.8	1179.3	934.5	827.1	894.4	978.2	988.7
40°	1767.5	1762.0	1746.0	1657.3	1447.1	1156.0	958.7	986.7	1063.9	1076.3
42.5°	1896.6	1909.5	1918.5	1893.8	1723.2	1408.7	1135.6	1116.4	1183.4	1196.1
45°	2028.7	2033.1	2069.6	2105.3	1997.4	1673.0	1335.1	1268.3	1332.0	1347.7
47.5°	2113.6	2131.2	2195.4	2258.4	2227.9	1935.0	1549.3	1447.7	1504.3	1533.7
50°	2119.9	2153.1	2241.6	2351.2	2395.7	2184.5	1782.3	1652.1	1712.2	1744.7
52.5°	2014.7	2066.3	2203.4	2363.8	2486.4	2395.7	2023.2	1856.5	1933.6	1976.0
55°	1544.7	1612.2	2059.7	2295.2	2489.9	2555.9	2257.8	2069.4	2180.3	2228.1
57.5°	1345.8	1379.8	1619.4	2175.9	2423.7	2620.4	2469.9	2272.1	2448.7	2508.1
60°	1119.7	1164.5	1358.1	1980.9	2333.9	2626.7	2657.2	2533.6	2739.6	2806.4
62.5°	760.9	809.6	1002.1	1645.8	2211.1	2623.7	2810.8	2802.8	3063.0	3134.7
65°	471.4	501.9	628.8	1343.9	2039.4	2627.0	2971.5	3129.7	3404.1	3476.9
67.5°	372.5	386.5	452.7	1031.8	1743.6	2552.8	3131.9	3437.1	3725.3	3783.0
70°	250.3	258.8	329.4	691.7	1297.2	2210.6	3128.9	3591.5	3890.6	3919.5
72.5°	131.9	138.5	192.6	320.3	783.5	1571.3	2637.4	3406.9	3726.1	3682.7
75°	65.9	76.9	129.7	162.6	334.6	876.3	1637.8	2686.1	2932.8	2764.6
77.5°	50.0	60.4	107.1	107.1	116.5	295.0	693.6	1465.0	1351.3	1125.2
80°	31.9	41.2	93.7	81.0	48.6	75.0	180.8	410.4	287.1	218.4
82.5°	18.7	26.9	78.0	53.6	27.2	27.7	51.1	87.4	74.4	58.0
85°	7.4	17.6	53.6	21.2	10.7	6.9	15.4	18.7	15.4	11.5
87.5°	0.0	4.1	9.3	0.0	0.8	0.5	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°
678.5	0°	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5
679.1	2.5°	681.5	682.1	683.7	684.0	680.2	675.2	673.3	672.5	669.2	668.9
683.5	5°	689.8	692.3	689.8	682.6	665.6	641.7	623.6	608.7	595.3	591.2
698.6	7.5°	706.3	708.7	701.3	673.3	630.4	582.9	540.1	509.9	482.7	472.5
717.0	10°	729.9	733.2	709.8	653.2	577.4	501.1	428.5	377.4	337.6	321.4
742.0	12.5°	759.6	760.9	714.5	622.8	508.5	399.4	296.7	242.0	206.6	193.4
772.2	15°	792.2	790.3	715.1	581.3	414.5	282.4	193.7	159.1	144.8	140.4
802.4	17.5°	826.6	818.6	704.1	521.4	311.5	193.1	143.7	135.4	133.0	131.9
832.4	20°	860.4	842.5	684.0	443.1	223.6	144.2	130.5	128.0	126.6	126.1
862.6	22.5°	891.1	860.7	649.7	352.2	162.4	127.5	123.3	121.1	118.7	117.6
892.0	25°	921.1	871.1	601.3	267.3	129.9	119.2	115.9	111.8	108.5	107.1
923.6	27.5°	950.2	877.7	540.9	197.8	115.9	111.5	105.5	99.7	97.2	96.7
957.3	30°	981.2	879.9	472.2	147.5	107.4	101.9	93.1	86.5	85.2	85.4
1002.9	32.5°	1019.2	883.2	403.0	120.9	100.3	90.4	79.9	73.1	72.0	73.1
1069.4	35°	1064.5	889.8	336.2	111.3	93.9	78.6	67.3	61.5	60.4	61.3
1154.6	37.5°	1126.0	900.5	273.9	109.3	88.7	68.7	56.6	51.9	51.9	52.2
1259.0	40°	1207.9	929.1	218.1	108.0	86.0	61.3	47.8	45.9	46.7	47.2
1391.9	42.5°	1307.6	989.8	180.5	106.3	83.0	58.0	43.4	42.6	44.0	44.5
1551.3	45°	1419.4	1066.7	167.3	103.6	80.2	60.2	41.5	40.4	42.0	42.3
1729.8	47.5°	1535.1	1141.9	165.6	100.5	77.5	63.5	40.9	38.5	40.4	40.7
1920.5	50°	1652.1	1191.1	167.3	95.9	73.1	63.5	41.2	36.5	38.2	39.0
2118.3	52.5°	1769.9	1213.6	166.2	85.7	65.4	59.6	41.2	34.9	36.5	37.1
2332.0	55°	1884.2	1209.3	149.4	70.6	55.5	52.7	40.1	33.5	34.6	34.9
2533.9	57.5°	1974.6	1148.0	118.4	54.9	45.1	44.0	36.5	31.9	32.7	32.4
2719.0	60°	2021.8	1013.4	84.6	42.3	35.4	34.6	32.1	29.7	30.2	28.8
2875.9	62.5°	2022.4	835.4	56.6	33.5	28.3	27.5	27.5	26.6	26.1	23.3
2997.3	65°	1979.2	637.9	37.6	26.6	22.8	21.4	23.1	22.8	20.9	17.0
3034.4	67.5°	1881.5	418.1	28.6	20.9	17.6	16.8	18.4	19.2	17.9	14.3
2899.2	70°	1680.4	243.4	23.6	16.2	13.2	12.4	14.8	16.5	14.8	11.5
2478.1	72.5°	1395.8	131.3	19.2	12.1	9.1	8.2	11.8	13.5	11.8	8.5
1590.0	75°	905.7	70.3	14.8	8.0	4.7	5.2	8.8	9.9	8.2	5.5
466.7	77.5°	304.1	31.0	9.3	3.8	2.2	2.2	5.2	6.0	3.8	1.9
84.9	80°	67.9	12.9	3.8	1.6	0.8	0.8	1.1	1.1	0.5	0.0
26.1	82.5°	22.3	5.2	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
6.6	85°	8.5	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.2	87.5°	3.3	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>
678.5
669.5
588.7
468.4
314.5
189.3
140.4
131.6
125.5
117.3
106.6
96.1
85.4
72.8
61.0
51.9
47.2
44.5
42.6
40.9
39.3
37.1
34.9
32.4
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