

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: P945372

Luminaire Tested: **GALN-SB1B-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945372
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-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 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: 4214 lumens
Efficiency: N/A
Efficacy: 105.9 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

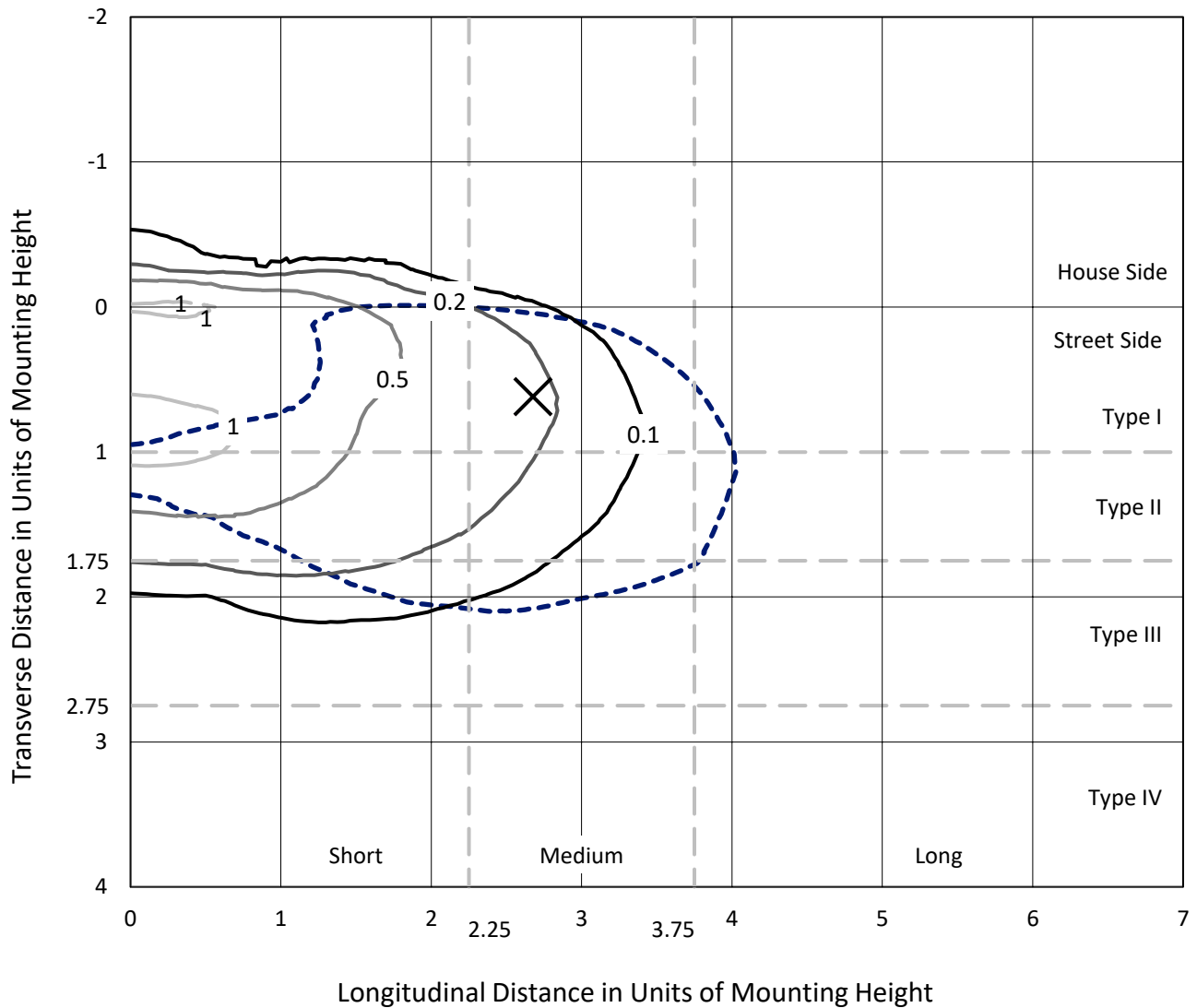
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

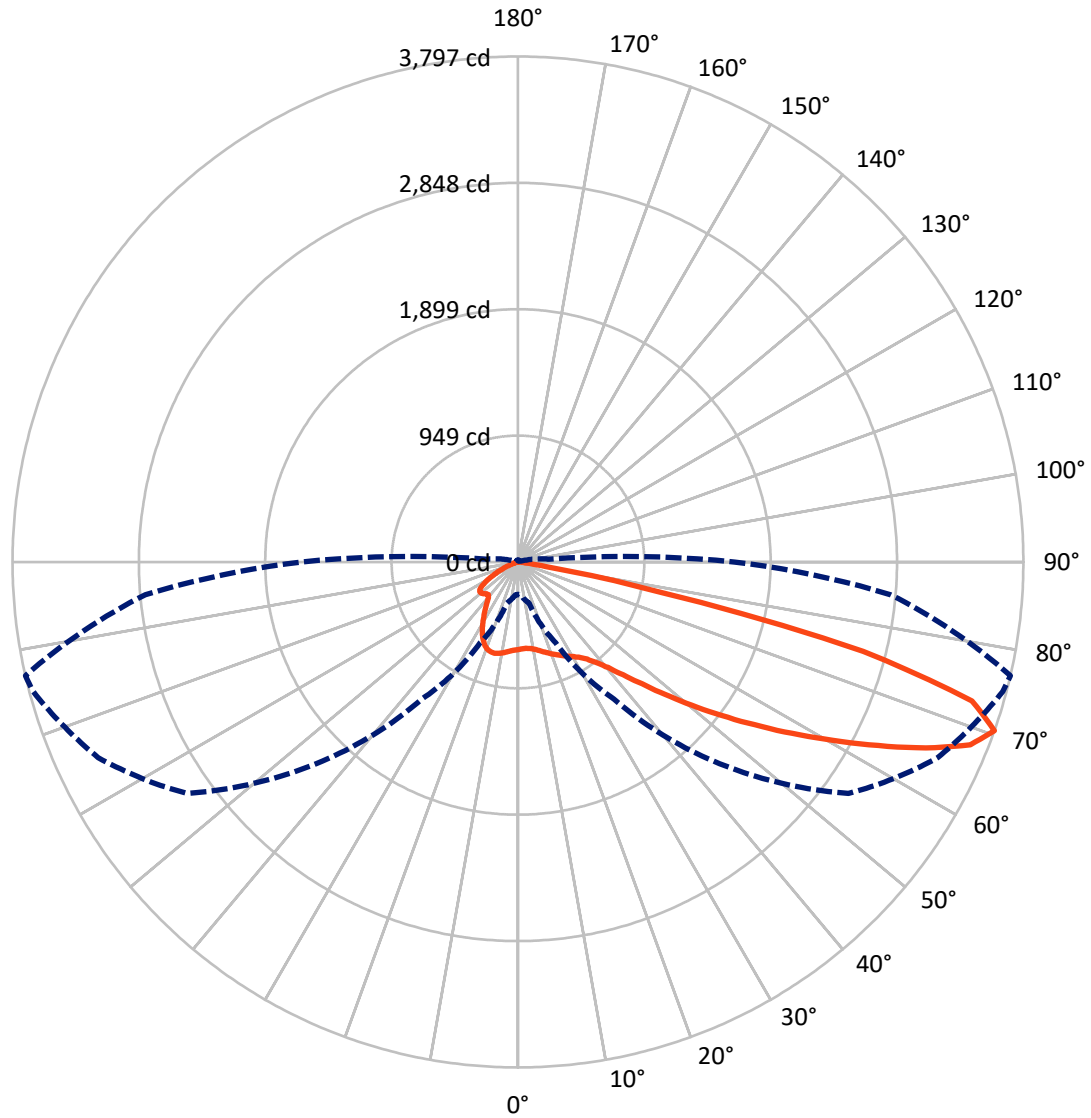
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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
House Side	Lumens	444.2	0.0	444.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3769.8	0.0	3769.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	4214.0	0.0	4214.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	1.3
10°-20°	134.5	3.2
20°-30°	208.0	4.9
30°-40°	377.4	9.0
40°-50°	712.4	16.9
50°-60°	1029.4	24.4
60°-70°	1095.8	26.0
70°-80°	580.7	13.8
80°-90°	19.1	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°	4214.0	100.0
0°-180°	4214.0	100.0

Coefficient of Utilization



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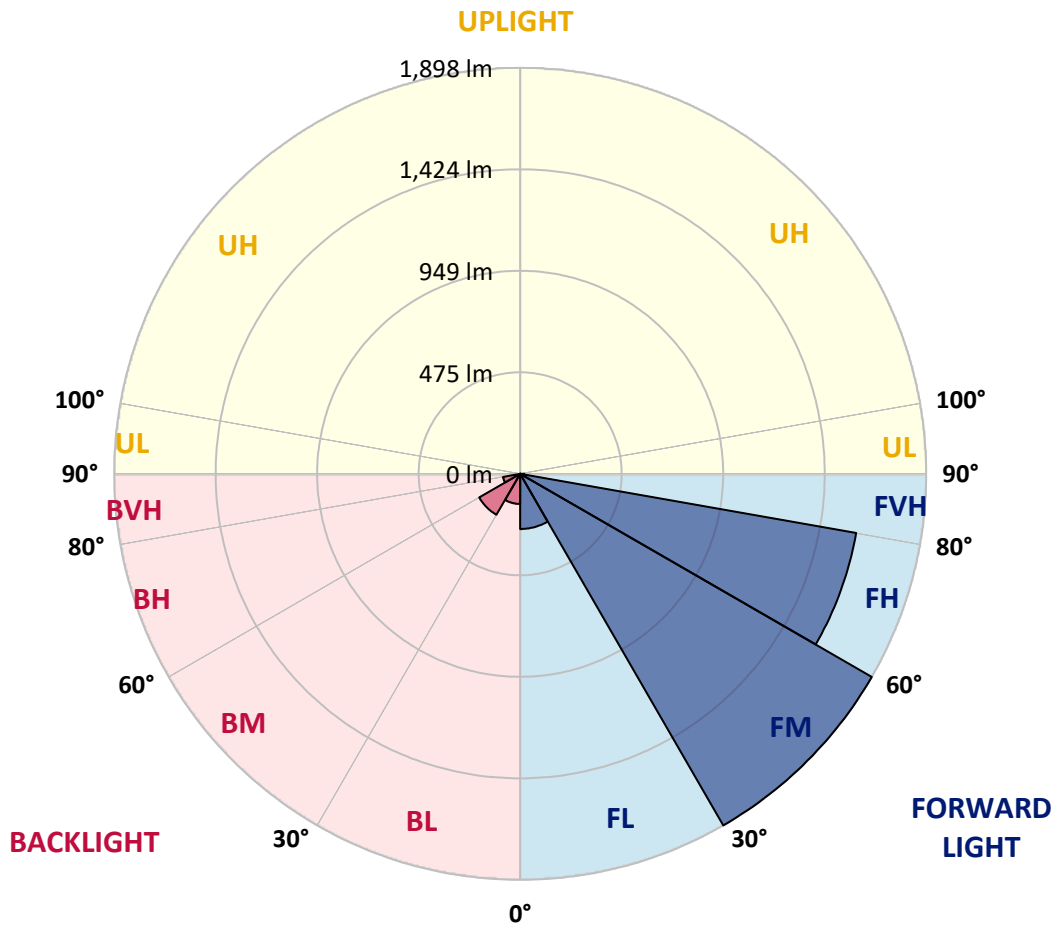
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	258.0	6.1			
FM (30°-60°)	1898.2	45.0			
FH (60°-80°)	1595.1	37.9			G1/1800
FVH (80°-90°)	18.6	0.4			G1/100
BL (0°-30°)	141.1	3.3	B1/500		
BM (30°-60°)	221.1	5.2	B1/1000		
BH (60°-80°)	81.4	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°	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3
2.5°	617.1	622.7	621.9	625.6	627.0	632.3	637.6	644.8	652.8	652.5
5°	582.3	587.9	589.2	594.2	600.6	608.9	619.8	634.2	649.1	651.5
7.5°	541.0	546.9	550.3	560.4	572.2	589.2	607.0	628.0	652.8	656.2
10°	499.8	505.1	509.6	524.0	542.6	567.9	596.9	627.2	660.5	665.6
12.5°	474.2	479.3	484.3	496.8	520.0	550.9	590.2	631.0	673.3	680.5
15°	465.2	469.7	473.7	484.9	506.4	541.5	588.9	638.7	689.5	699.1
17.5°	466.5	468.9	471.6	480.1	501.1	537.3	591.3	652.0	708.7	717.2
20°	474.2	475.6	475.8	481.7	500.3	536.8	596.1	664.8	726.8	738.2
22.5°	484.1	484.6	484.1	488.1	505.4	540.7	602.5	680.2	747.0	757.6
25°	530.1	520.0	507.2	499.5	513.9	548.5	612.1	701.0	769.1	779.5
27.5°	673.0	644.0	598.2	546.9	531.4	559.6	625.4	722.0	791.4	800.7
30°	905.1	867.0	789.3	673.5	587.9	583.1	642.7	743.0	815.1	825.2
32.5°	1137.6	1128.3	1038.7	878.5	714.8	635.2	671.4	771.5	846.5	854.5
35°	1372.9	1354.0	1280.6	1122.2	910.4	741.4	719.3	808.7	887.8	896.8
37.5°	1553.1	1541.6	1496.1	1365.7	1142.4	905.3	801.3	866.5	947.6	957.8
40°	1712.2	1706.9	1691.4	1605.5	1401.9	1119.8	928.7	955.9	1030.7	1042.6
42.5°	1837.3	1849.8	1858.6	1834.6	1669.3	1364.6	1100.1	1081.5	1146.4	1158.7
45°	1965.3	1969.5	2004.9	2039.5	1934.9	1620.6	1293.3	1228.7	1290.4	1305.6
47.5°	2047.5	2064.5	2126.8	2187.7	2158.2	1874.5	1500.9	1402.4	1457.3	1485.7
50°	2053.6	2085.8	2171.5	2277.7	2320.8	2116.2	1726.6	1600.4	1658.7	1690.1
52.5°	1951.7	2001.7	2134.5	2289.9	2408.6	2320.8	1959.9	1798.4	1873.2	1914.2
55°	1496.4	1561.8	1995.3	2223.4	2412.1	2475.9	2187.2	2004.7	2112.2	2158.5
57.5°	1303.7	1336.7	1568.8	2107.9	2347.9	2538.5	2392.7	2201.1	2372.2	2429.6
60°	1084.7	1128.1	1315.7	1919.0	2260.9	2544.6	2574.1	2454.4	2654.0	2718.6
62.5°	737.1	784.2	970.8	1594.3	2142.0	2541.7	2722.9	2715.2	2967.2	3036.7
65°	456.7	486.2	609.1	1301.8	1975.6	2544.9	2878.6	3031.9	3297.7	3368.2
67.5°	360.9	374.4	438.6	999.5	1689.0	2473.0	3034.0	3329.7	3608.8	3664.7
70°	242.4	250.7	319.1	670.1	1256.6	2141.4	3031.1	3479.2	3769.0	3797.0
72.5°	127.7	134.1	186.5	310.3	759.0	1522.2	2555.0	3300.4	3609.6	3567.6
75°	63.9	74.5	125.6	157.5	324.1	848.9	1586.6	2602.1	2841.1	2678.2
77.5°	48.4	58.5	103.8	103.8	112.8	285.8	671.9	1419.2	1309.0	1090.0
80°	30.9	39.9	90.7	78.5	47.1	72.6	175.1	397.6	278.1	211.6
82.5°	18.1	26.1	75.6	51.9	26.3	26.9	49.5	84.6	72.1	56.2
85°	7.2	17.0	51.9	20.5	10.4	6.7	14.9	18.1	14.9	11.2
87.5°	0.0	4.0	9.0	0.0	0.8	0.5	1.1	1.3	1.3	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°
657.3	0°	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3
657.8	2.5°	660.2	660.8	662.4	662.6	658.9	654.1	652.3	651.5	648.3	648.0
662.1	5°	668.2	670.6	668.2	661.3	644.8	621.6	604.1	589.7	576.7	572.7
676.7	7.5°	684.2	686.6	679.4	652.3	610.7	564.7	523.2	493.9	467.6	457.7
694.6	10°	707.1	710.3	687.6	632.8	559.4	485.4	415.1	365.6	327.1	311.4
718.8	12.5°	735.8	737.1	692.2	603.3	492.6	386.9	287.4	234.4	200.1	187.3
748.1	15°	767.5	765.6	692.7	563.1	401.6	273.6	187.6	154.1	140.2	136.0
777.3	17.5°	800.7	793.0	682.1	505.1	301.8	187.1	139.2	131.2	128.8	127.7
806.3	20°	833.5	816.2	662.6	429.2	216.6	139.7	126.4	124.0	122.7	122.1
835.6	22.5°	863.3	833.7	629.4	341.2	157.3	123.5	119.5	117.4	115.0	113.9
864.1	25°	892.3	843.9	582.5	258.9	125.9	115.5	112.3	108.3	105.1	103.8
894.7	27.5°	920.5	850.2	524.0	191.6	112.3	108.0	102.2	96.6	94.2	93.7
927.4	30°	950.6	852.4	457.5	142.9	104.1	98.7	90.2	83.8	82.5	82.8
971.6	32.5°	987.3	855.6	390.4	117.1	97.1	87.6	77.4	70.8	69.7	70.8
1036.0	35°	1031.2	862.0	325.7	107.8	91.0	76.1	65.2	59.6	58.5	59.3
1118.5	37.5°	1090.8	872.3	265.3	105.9	86.0	66.5	54.8	50.3	50.3	50.6
1219.6	40°	1170.1	900.0	211.3	104.6	83.3	59.3	46.3	44.4	45.2	45.8
1348.4	42.5°	1266.7	958.8	174.8	103.0	80.4	56.2	42.0	41.2	42.6	43.1
1502.8	45°	1375.0	1033.3	162.1	100.3	77.7	58.3	40.2	39.1	40.7	41.0
1675.7	47.5°	1487.1	1106.2	160.5	97.4	75.0	61.5	39.7	37.3	39.1	39.4
1860.4	50°	1600.4	1153.9	162.1	92.9	70.8	61.5	39.9	35.4	37.0	37.8
2052.0	52.5°	1714.6	1175.7	161.0	83.0	63.3	57.7	39.9	33.8	35.4	35.9
2259.1	55°	1825.3	1171.4	144.8	68.4	53.8	51.1	38.9	32.5	33.5	33.8
2454.7	57.5°	1912.8	1112.1	114.7	53.2	43.6	42.6	35.4	30.9	31.7	31.4
2634.0	60°	1958.6	981.7	82.0	41.0	34.3	33.5	31.1	28.7	29.3	27.9
2786.0	62.5°	1959.2	809.3	54.8	32.5	27.4	26.6	26.6	25.8	25.3	22.6
2903.6	65°	1917.4	617.9	36.5	25.8	22.1	20.8	22.4	22.1	20.2	16.5
2939.5	67.5°	1822.6	405.0	27.7	20.2	17.0	16.2	17.8	18.6	17.3	13.8
2808.6	70°	1627.8	235.8	22.9	15.7	12.8	12.0	14.4	16.0	14.4	11.2
2400.6	72.5°	1352.1	127.2	18.6	11.7	8.8	8.0	11.4	13.0	11.4	8.2
1540.3	75°	877.4	68.1	14.4	7.7	4.5	5.1	8.5	9.6	8.0	5.3
452.1	77.5°	294.6	30.1	9.0	3.7	2.1	2.1	5.1	5.9	3.7	1.9
82.2	80°	65.7	12.5	3.7	1.6	0.8	0.8	1.1	1.1	0.5	0.0
25.3	82.5°	21.6	5.1	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
6.4	85°	8.2	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.1	87.5°	3.2	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>
657.3
648.5
570.3
453.7
304.7
183.4
136.0
127.5
121.6
113.6
103.3
93.1
82.8
70.5
59.1
50.3
45.8
43.1
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