

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: P945370

Luminaire Tested: **GALN-SB1B-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945370  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
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-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

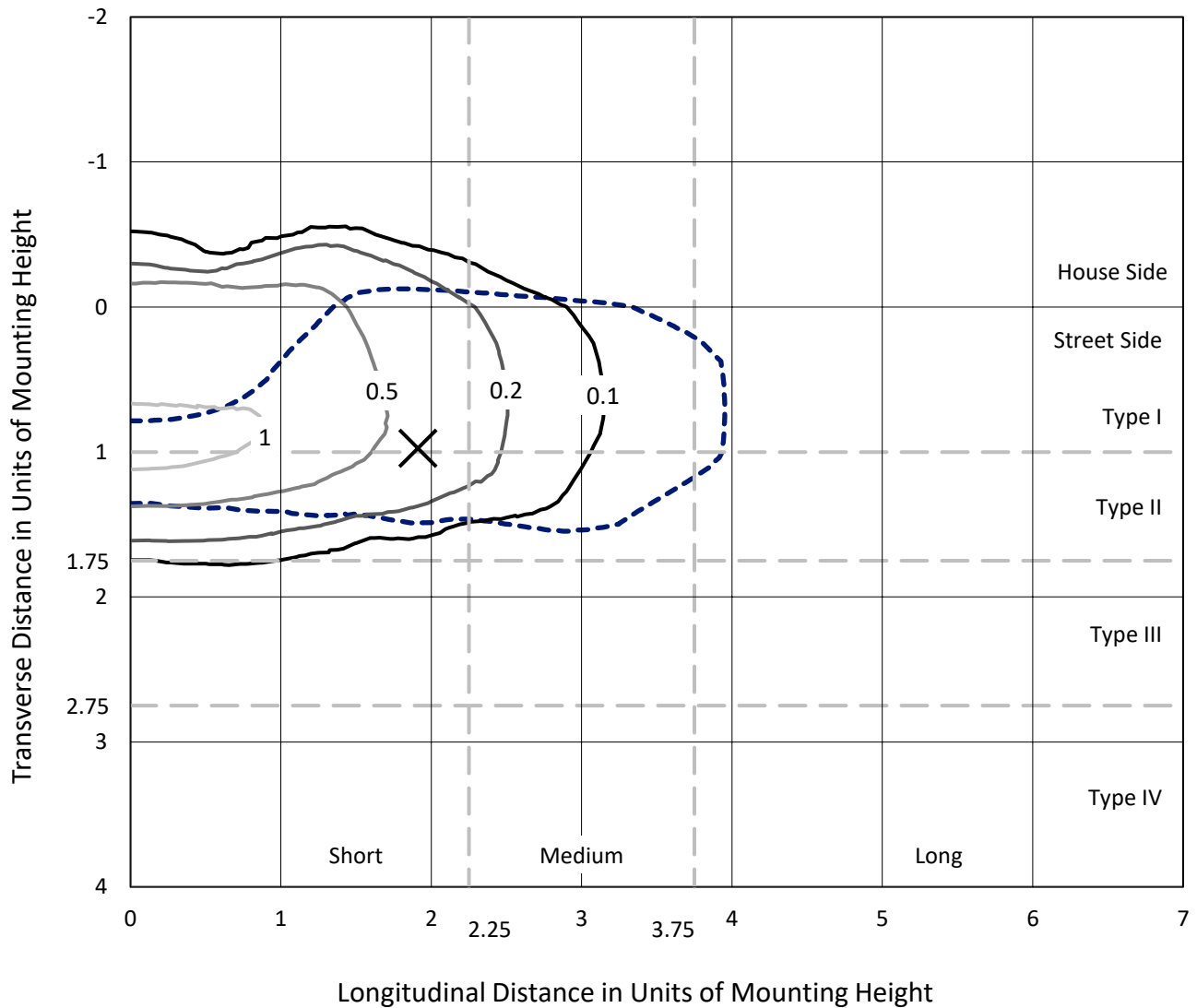
Lumens per Lamp: N/A  
Luminaire Lumens: 3868 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

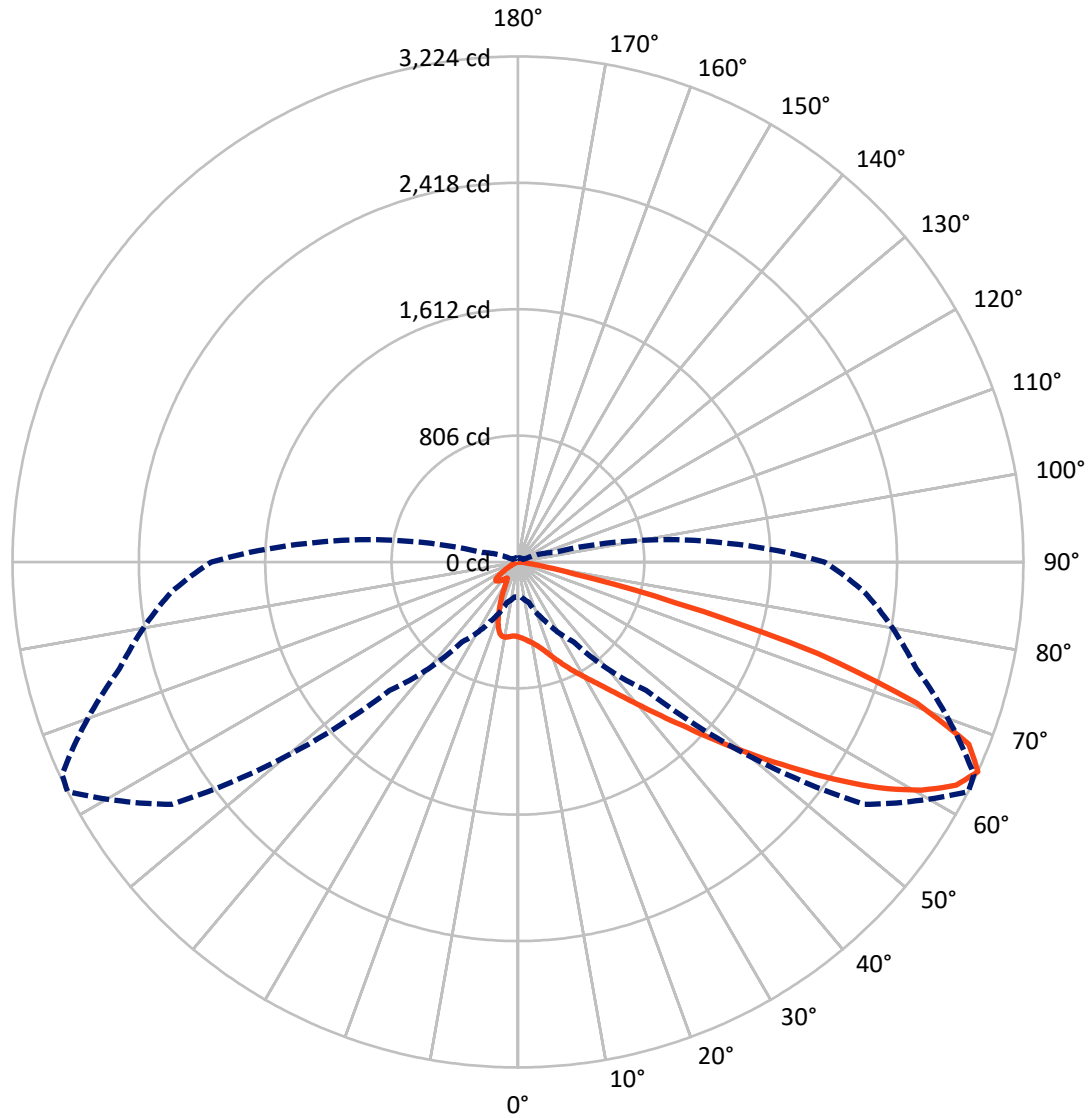
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	568.6	0.0	568.6
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	3299.4	0.0	3299.4
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	3868.0	0.0	3868.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.0	1.2
10°-20°	124.8	3.2
20°-30°	217.3	5.6
30°-40°	391.7	10.1
40°-50°	776.8	20.1
50°-60°	1058.2	27.4
60°-70°	844.6	21.8
70°-80°	382.2	9.9
80°-90°	27.5	0.7
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°	3868.0	100.0
0°-180°	3868.0	100.0

**Coefficient of Utilization**



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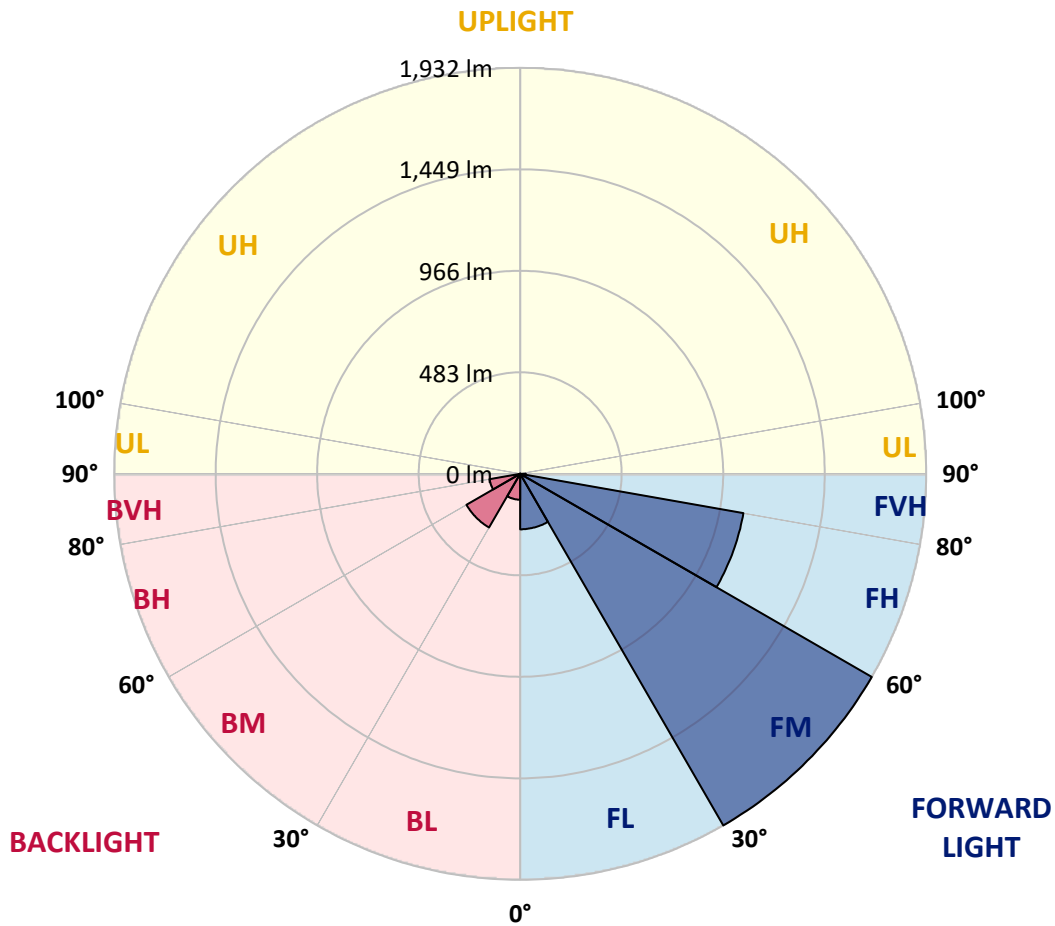
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	264.0	6.8			
FM (30°-60°)	1931.6	49.9			
FH (60°-80°)	1078.4	27.9			G1/1800
FVH (80°-90°)	25.4	0.7			G1/100
BL (0°-30°)	123.0	3.2	B1/500		
BM (30°-60°)	295.1	7.6	B1/1000		
BH (60°-80°)	148.4	3.8	B1/500		G1/500
BVH (80°-90°)	2.0	0.1			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	477.4	477.4	477.4	477.4	477.4	477.4	477.4	477.4	477.4	477.4
2.5°	488.6	487.2	489.1	488.3	487.8	486.7	486.2	485.6	484.6	483.8
5°	489.9	489.1	491.0	492.6	494.1	495.7	496.5	497.6	496.5	494.4
7.5°	478.7	478.2	482.2	487.0	494.1	500.3	506.9	510.6	510.9	510.1
10°	477.9	476.6	480.6	486.4	495.7	506.7	518.4	526.3	527.4	530.9
12.5°	490.4	489.1	494.7	501.1	510.6	522.1	536.5	547.6	549.2	554.0
15°	511.4	509.6	516.0	524.2	536.5	549.5	564.7	574.8	576.1	582.0
17.5°	535.9	534.1	541.5	550.3	563.6	581.4	599.0	610.2	611.8	615.5
20°	567.3	564.9	570.8	578.8	592.9	614.2	635.2	651.1	650.9	650.9
22.5°	603.8	600.1	605.1	611.5	624.8	650.6	678.6	697.4	697.4	690.0
25°	642.9	639.2	644.8	650.6	662.3	691.6	724.3	747.7	748.8	736.0
27.5°	691.9	687.1	691.3	698.2	705.2	735.0	773.8	801.0	801.5	781.8
30°	786.1	772.5	759.2	751.7	754.9	784.5	826.0	856.0	858.7	831.6
32.5°	958.5	955.8	909.0	847.8	815.9	837.7	884.3	920.4	922.0	887.2
35°	1226.5	1223.3	1148.0	1031.4	927.4	909.0	955.0	997.9	996.8	957.4
37.5°	1546.3	1543.4	1444.1	1288.2	1119.8	1016.8	1046.3	1091.3	1097.9	1046.3
40°	1819.6	1808.7	1745.9	1595.5	1375.2	1195.6	1176.2	1206.0	1212.9	1151.7
42.5°	2026.6	2017.3	1985.4	1891.4	1684.4	1460.1	1329.2	1340.6	1348.3	1274.9
45°	2133.9	2131.7	2144.5	2135.7	1999.5	1784.7	1547.9	1500.3	1503.2	1411.4
47.5°	2149.0	2148.0	2206.2	2288.7	2270.4	2150.9	1828.6	1699.3	1688.9	1565.5
50°	2059.6	2057.5	2169.3	2323.9	2451.3	2458.5	2147.4	1923.6	1900.8	1724.9
52.5°	1774.1	1773.6	1957.2	2214.5	2514.9	2727.8	2462.5	2170.0	2131.7	1893.6
55°	1365.1	1374.9	1585.4	1889.6	2398.9	2857.4	2745.4	2443.6	2384.8	2063.3
57.5°	967.0	981.4	1189.5	1460.4	2039.1	2780.8	2936.7	2717.7	2654.4	2232.6
60°	519.4	532.2	740.6	1063.9	1517.0	2495.0	3037.5	2955.6	2895.7	2393.3
62.5°	309.5	313.7	399.9	686.8	1026.1	1906.1	2994.7	3136.8	3087.6	2528.2
65°	222.2	223.0	266.4	419.4	622.9	1158.1	2694.3	3223.5	3208.4	2629.9
67.5°	187.1	186.5	204.6	278.6	424.4	580.1	2064.9	3100.9	3165.3	2694.3
70°	160.5	161.3	182.5	204.1	319.1	328.4	1026.6	2699.9	2837.2	2711.3
72.5°	119.5	122.1	141.8	186.0	240.8	225.9	354.4	2001.9	2250.1	2554.6
75°	84.4	85.7	99.8	156.5	179.6	164.5	180.9	1034.9	1353.1	1958.5
77.5°	64.9	67.3	75.6	109.4	177.0	115.5	110.7	358.2	550.3	1183.1
80°	35.1	39.4	54.6	79.0	124.3	81.7	54.8	142.6	186.5	553.2
82.5°	18.1	20.2	38.1	56.9	70.8	71.3	27.1	59.3	76.9	170.8
85°	7.2	8.8	25.5	31.4	36.5	35.1	12.2	23.9	27.7	47.4
87.5°	1.6	2.7	9.3	7.2	6.9	7.5	2.9	5.6	5.3	5.6
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°
477.4	0°	477.4	477.4	477.4	477.4	477.4	477.4	477.4	477.4	477.4	477.4
480.6	2.5°	480.3	479.2	476.3	473.1	469.4	467.3	465.9	465.7	463.8	462.5
491.2	5°	488.3	487.2	481.6	475.0	467.8	462.2	456.9	452.1	445.2	443.9
506.7	7.5°	504.3	501.3	492.3	483.2	469.7	453.4	433.7	411.1	390.9	384.8
527.1	10°	524.0	520.0	508.5	492.6	462.5	418.3	370.7	326.5	291.4	281.5
551.4	12.5°	546.3	542.8	527.7	498.1	432.4	352.3	279.4	224.6	190.5	182.0
577.2	15°	572.9	567.9	546.8	489.6	378.7	267.7	191.9	159.4	147.2	145.6
606.7	17.5°	601.1	592.9	563.9	459.0	306.3	190.3	148.2	138.9	133.6	132.0
636.5	20°	626.9	616.3	574.0	412.7	228.8	148.2	132.8	126.7	121.9	120.0
666.3	22.5°	652.7	637.6	574.0	349.7	171.6	131.5	121.9	116.3	110.7	108.3
698.2	25°	679.6	659.4	563.9	279.4	138.1	120.5	111.5	105.4	100.6	97.7
728.6	27.5°	705.7	677.8	540.7	212.9	122.9	111.0	101.9	96.1	91.5	89.4
761.6	30°	730.4	695.9	508.3	161.5	113.1	101.7	93.1	88.1	83.6	81.4
804.4	32.5°	764.0	718.7	473.7	132.5	104.6	92.9	85.2	80.4	76.4	74.8
860.0	35°	810.5	752.5	443.9	130.1	97.4	85.7	78.0	73.4	69.5	68.1
931.9	37.5°	876.5	807.1	428.2	146.1	91.5	79.3	72.1	67.3	63.6	62.5
1023.2	40°	958.0	881.1	436.7	162.1	87.5	73.7	66.8	62.0	58.8	57.5
1128.0	42.5°	1054.6	972.3	483.8	174.3	84.9	68.9	61.7	56.4	54.3	53.8
1246.9	45°	1165.5	1072.7	555.9	187.3	80.6	64.4	56.7	52.7	51.1	50.8
1376.3	47.5°	1291.7	1182.8	639.4	203.6	76.4	60.1	52.7	50.0	48.7	48.2
1511.2	50°	1416.7	1293.8	725.4	212.6	72.9	56.1	49.5	47.4	46.3	46.0
1653.8	52.5°	1547.6	1407.9	794.8	204.1	70.0	53.0	46.8	45.2	44.2	43.9
1785.3	55°	1672.4	1500.3	806.8	173.2	64.1	49.8	43.9	43.1	41.8	41.8
1918.6	57.5°	1779.9	1546.6	722.2	127.2	58.3	45.0	41.0	40.2	39.1	38.9
2038.9	60°	1878.7	1533.3	557.5	85.7	51.9	40.2	37.3	36.7	35.7	34.3
2143.4	62.5°	1934.3	1474.7	381.3	55.9	45.5	35.1	33.0	32.7	30.3	27.7
2220.9	65°	1955.3	1354.5	237.9	40.7	38.1	30.1	28.5	27.9	24.5	21.6
2264.8	67.5°	1936.9	1156.5	120.0	32.2	30.1	25.0	23.4	23.4	21.0	18.4
2262.1	70°	1863.5	867.0	50.6	25.8	23.2	19.2	19.2	20.2	17.8	14.9
2144.8	72.5°	1704.1	583.3	26.9	19.7	17.3	13.6	15.7	16.5	14.1	11.2
1755.5	75°	1354.7	355.8	18.6	14.6	10.9	9.6	12.0	12.5	9.6	7.5
1203.6	77.5°	926.6	204.4	12.5	9.3	6.9	5.6	8.2	7.7	5.1	3.5
464.1	80°	406.9	85.2	7.2	4.3	2.7	2.1	2.9	2.1	1.6	1.1
63.6	82.5°	47.6	20.0	2.7	1.6	1.1	0.5	0.3	0.0	0.0	0.0
19.4	85°	9.8	2.4	1.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0
3.5	87.5°	1.9	0.5	0.3	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>
477.4
463.8
443.3
381.9
277.8
179.6
144.0
131.2
118.9
107.0
96.6
89.4
81.7
74.8
68.1
62.3
57.2
53.8
50.6
48.2
46.0
43.9
41.5
38.6
34.1
27.1
21.3
18.1
14.6
11.2
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