

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: P945456

Luminaire Tested: **GALN-SB1B-927-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945456  
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-927-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

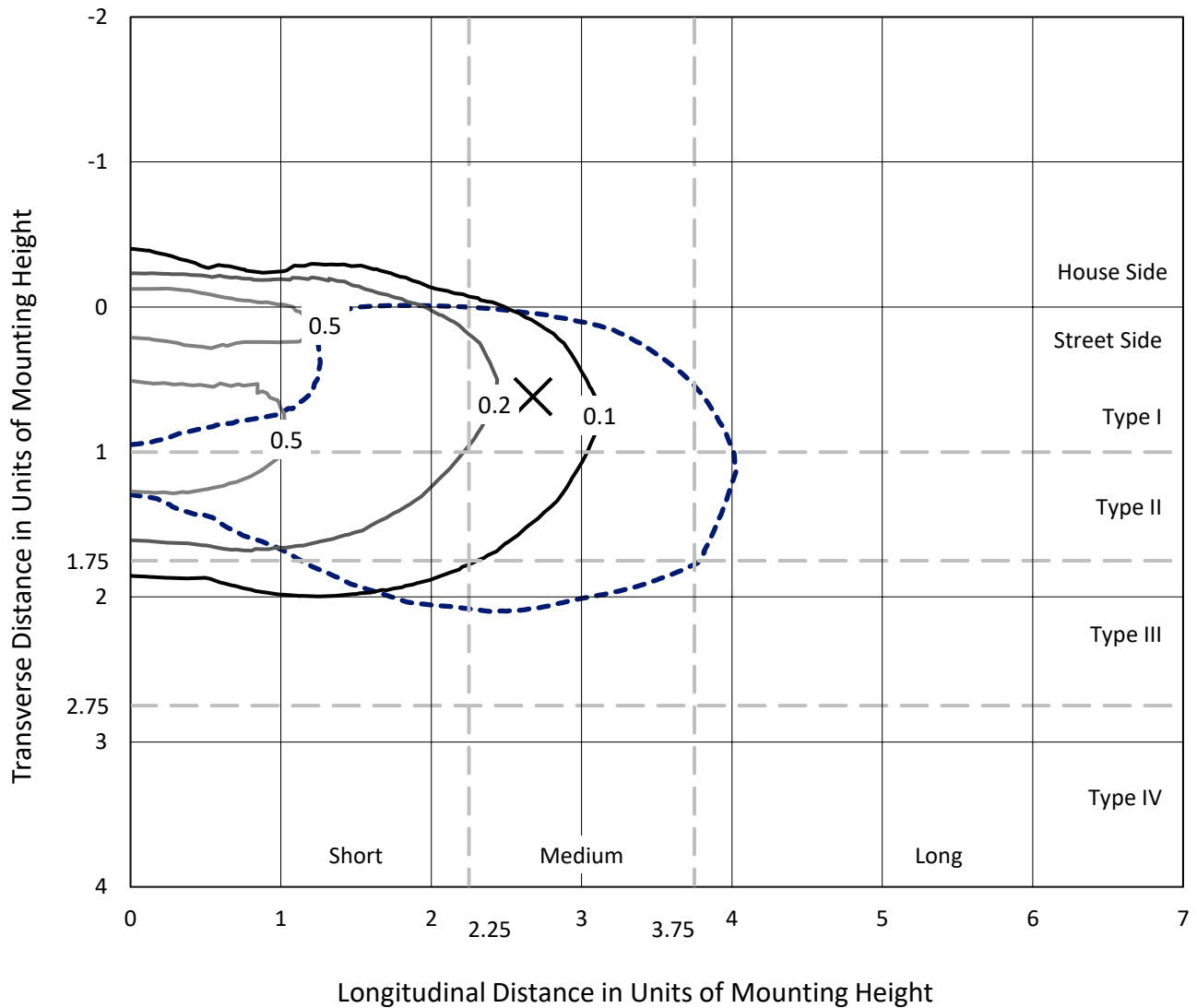
Lumens per Lamp: N/A  
Luminaire Lumens: 2855 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

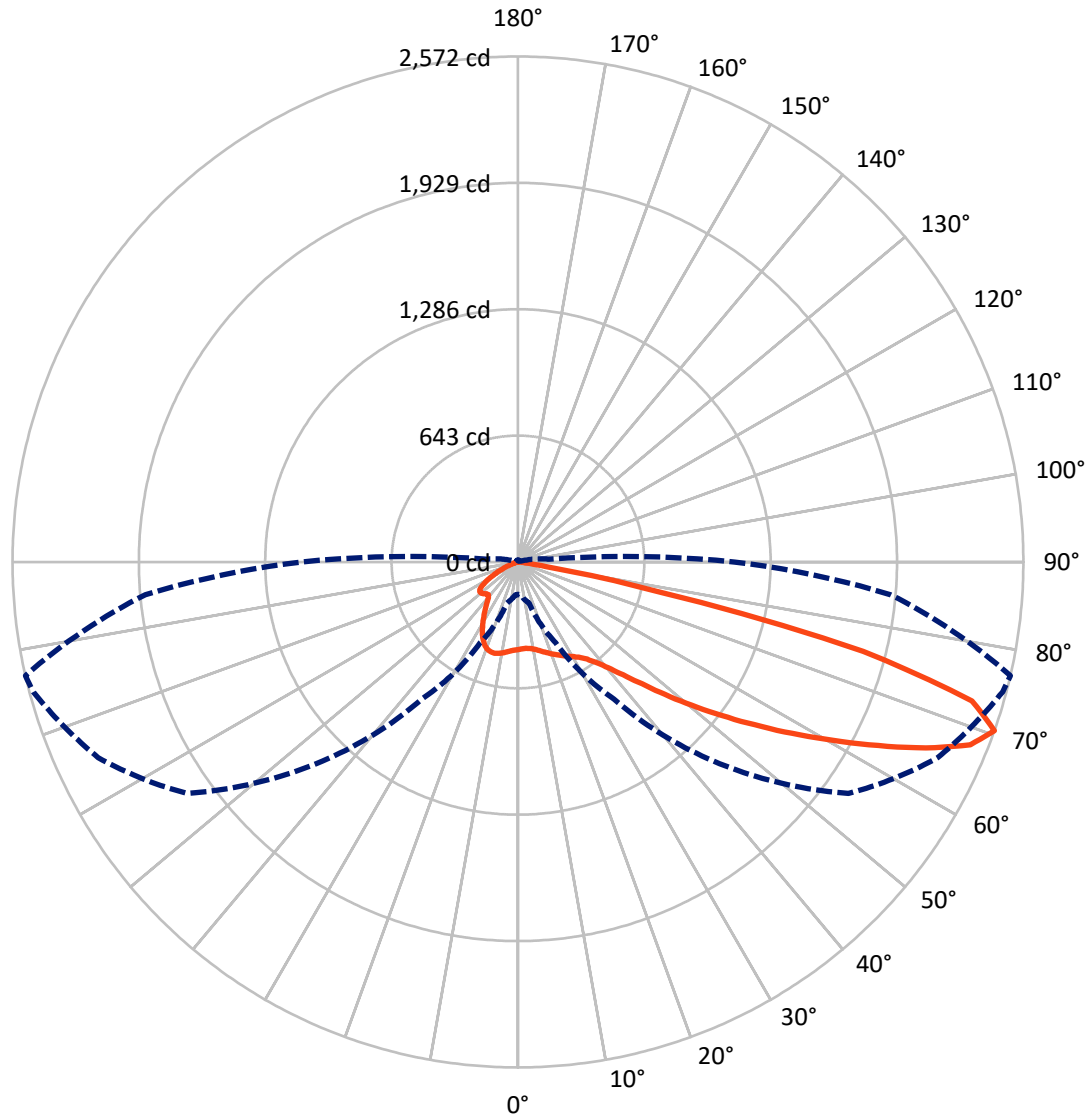
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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	301.0	0.0	301.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	2554.0	0.0	2554.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	2855.0	0.0	2855.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.4	1.3
10°-20°	91.1	3.2
20°-30°	140.9	4.9
30°-40°	255.7	9.0
40°-50°	482.7	16.9
50°-60°	697.4	24.4
60°-70°	742.4	26.0
70°-80°	393.4	13.8
80°-90°	12.9	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°	2855.0	100.0
0°-180°	2855.0	100.0

**Coefficient of Utilization**



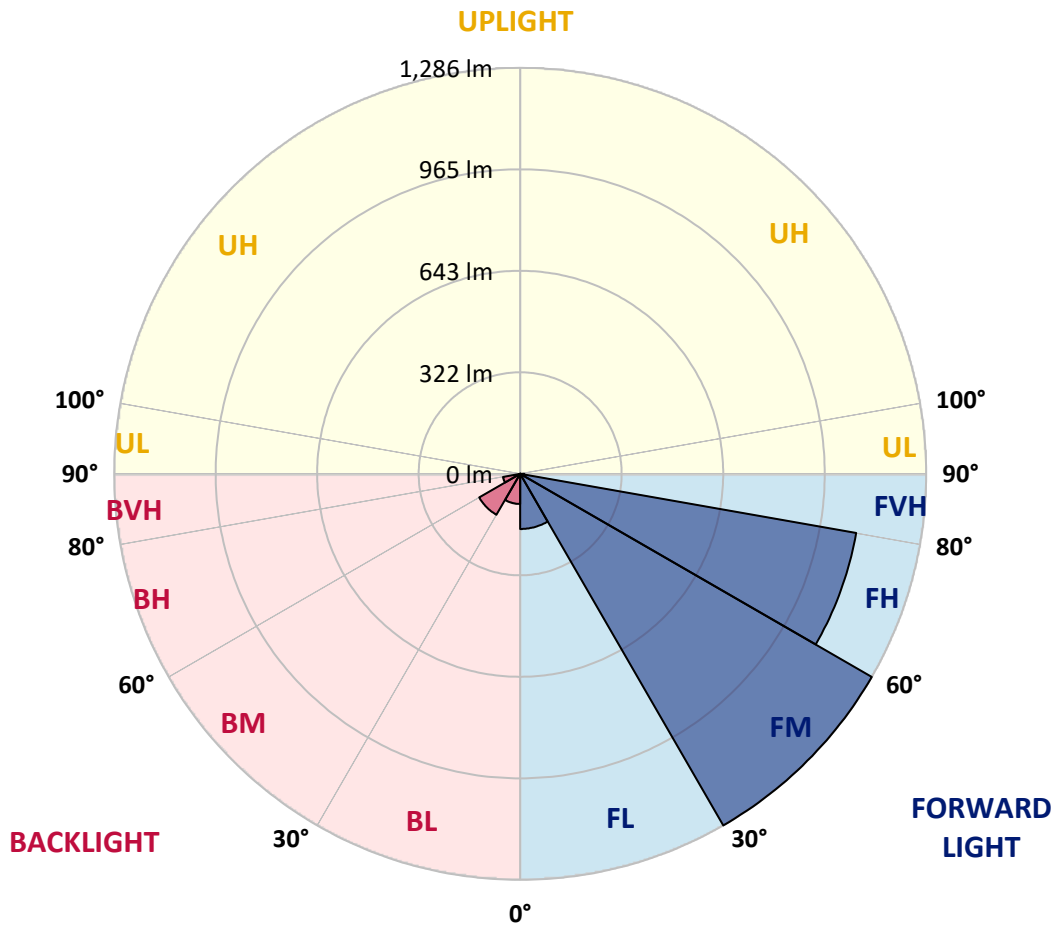
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	174.8	6.1			
FM (30°-60°)	1286.0	45.0			
FH (60°-80°)	1080.7	37.9			G1/1800
FVH (80°-90°)	12.6	0.4			G1/100
BL (0°-30°)	95.6	3.3	B0/110		
BM (30°-60°)	149.8	5.2	B0/220		
BH (60°-80°)	55.2	1.9	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	445.3	445.3	445.3	445.3	445.3	445.3	445.3	445.3	445.3	445.3
2.5°	418.1	421.9	421.3	423.9	424.8	428.4	432.0	436.9	442.3	442.1
5°	394.5	398.3	399.2	402.6	406.9	412.5	419.9	429.6	439.7	441.4
7.5°	366.5	370.5	372.8	379.7	387.6	399.2	411.3	425.5	442.3	444.6
10°	338.6	342.2	345.3	355.0	367.6	384.7	404.4	425.0	447.5	450.9
12.5°	321.3	324.7	328.1	336.6	352.3	373.2	399.9	427.5	456.1	461.0
15°	315.2	318.2	320.9	328.5	343.1	366.9	399.0	432.7	467.1	473.6
17.5°	316.1	317.7	319.5	325.3	339.5	364.0	400.6	441.7	480.1	485.9
20°	321.3	322.2	322.4	326.3	339.0	363.7	403.9	450.4	492.4	500.1
22.5°	328.0	328.3	328.0	330.7	342.4	366.4	408.2	460.8	506.1	513.3
25°	359.1	352.3	343.6	338.4	348.1	371.6	414.7	474.9	521.1	528.1
27.5°	456.0	436.3	405.3	370.5	360.0	379.2	423.7	489.1	536.2	542.5
30°	613.2	587.4	534.8	456.3	398.3	395.0	435.4	503.4	552.2	559.1
32.5°	770.8	764.5	703.7	595.2	484.3	430.4	454.9	522.7	573.5	578.9
35°	930.1	917.3	867.6	760.3	616.8	502.3	487.3	547.9	601.5	607.6
37.5°	1052.2	1044.4	1013.6	925.3	774.0	613.4	542.9	587.0	642.0	648.9
40°	1160.0	1156.4	1146.0	1087.7	949.8	758.7	629.2	647.6	698.3	706.4
42.5°	1244.8	1253.2	1259.2	1243.0	1131.0	924.6	745.3	732.7	776.7	785.0
45°	1331.5	1334.4	1358.3	1381.8	1310.9	1098.0	876.2	832.4	874.3	884.5
47.5°	1387.2	1398.7	1440.9	1482.2	1462.2	1270.0	1016.9	950.2	987.3	1006.6
50°	1391.3	1413.2	1471.2	1543.1	1572.4	1433.7	1169.8	1084.3	1123.8	1145.1
52.5°	1322.3	1356.2	1446.1	1551.4	1631.8	1572.4	1327.9	1218.4	1269.1	1296.9
55°	1013.8	1058.2	1351.9	1506.4	1634.2	1677.5	1481.8	1358.2	1431.0	1462.4
57.5°	883.3	905.6	1062.8	1428.1	1590.7	1719.8	1621.0	1491.2	1607.1	1646.1
60°	734.9	764.3	891.4	1300.1	1531.8	1724.0	1744.0	1662.9	1798.1	1841.9
62.5°	499.4	531.3	657.7	1080.1	1451.2	1722.0	1844.8	1839.5	2010.3	2057.3
65°	309.4	329.4	412.7	882.0	1338.5	1724.2	1950.3	2054.1	2234.2	2282.0
67.5°	244.5	253.7	297.1	677.2	1144.3	1675.5	2055.5	2255.8	2445.0	2482.8
70°	164.2	169.8	216.2	454.0	851.4	1450.8	2053.6	2357.2	2553.5	2572.4
72.5°	86.5	90.9	126.4	210.2	514.2	1031.3	1731.0	2236.0	2445.5	2417.0
75°	43.3	50.5	85.1	106.7	219.6	575.1	1074.9	1762.9	1924.8	1814.5
77.5°	32.8	39.7	70.3	70.3	76.4	193.6	455.2	961.5	886.9	738.5
80°	20.9	27.0	61.5	53.2	31.9	49.2	118.6	269.4	188.4	143.3
82.5°	12.3	17.7	51.2	35.2	17.8	18.2	33.5	57.3	48.9	38.0
85°	4.9	11.5	35.2	13.9	7.0	4.5	10.1	12.3	10.1	7.6
87.5°	0.0	2.7	6.1	0.0	0.5	0.4	0.7	0.9	0.9	0.7
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°
445.3	0°	445.3	445.3	445.3	445.3	445.3	445.3	445.3	445.3	445.3	445.3
445.7	2.5°	447.3	447.7	448.8	448.9	446.4	443.2	441.9	441.4	439.2	439.0
448.6	5°	452.7	454.3	452.7	448.0	436.9	421.2	409.3	399.5	390.7	388.0
458.5	7.5°	463.5	465.2	460.3	441.9	413.8	382.6	354.5	334.6	316.8	310.1
470.6	10°	479.0	481.2	465.9	428.7	379.0	328.9	281.3	247.7	221.6	210.9
487.0	12.5°	498.5	499.4	468.9	408.7	333.7	262.1	194.7	158.8	135.6	126.9
506.8	15°	520.0	518.7	469.3	381.5	272.1	185.3	127.1	104.4	95.0	92.1
526.6	17.5°	542.5	537.3	462.1	342.2	204.5	126.7	94.3	88.9	87.3	86.5
546.3	20°	564.7	553.0	448.9	290.8	146.8	94.7	85.6	84.0	83.1	82.8
566.1	22.5°	584.9	564.9	426.4	231.1	106.6	83.7	81.0	79.5	77.9	77.2
585.4	25°	604.5	571.7	394.7	175.4	85.3	78.2	76.1	73.4	71.2	70.3
606.2	27.5°	623.6	576.0	355.0	129.8	76.1	73.2	69.2	65.4	63.8	63.5
628.3	30°	644.0	577.5	309.9	96.8	70.5	66.9	61.1	56.8	55.9	56.1
658.3	32.5°	668.9	579.6	264.5	79.3	65.8	59.3	52.5	48.0	47.2	48.0
701.9	35°	698.6	584.0	220.7	73.0	61.7	51.6	44.2	40.4	39.7	40.2
757.8	37.5°	739.0	591.0	179.8	71.8	58.2	45.1	37.1	34.1	34.1	34.3
826.3	40°	792.8	609.8	143.2	70.9	56.4	40.2	31.4	30.1	30.7	31.0
913.6	42.5°	858.2	649.6	118.5	69.8	54.4	38.0	28.5	27.9	28.8	29.2
1018.1	45°	931.6	700.1	109.8	68.0	52.6	39.5	27.2	26.5	27.6	27.8
1135.3	47.5°	1007.5	749.5	108.7	66.0	50.8	41.6	26.9	25.2	26.5	26.7
1260.4	50°	1084.3	781.8	109.8	62.9	48.0	41.6	27.0	24.0	25.1	25.6
1390.3	52.5°	1161.6	796.5	109.1	56.3	42.9	39.1	27.0	22.9	24.0	24.3
1530.5	55°	1236.6	793.7	98.1	46.3	36.4	34.6	26.3	22.0	22.7	22.9
1663.0	57.5°	1296.0	753.5	77.7	36.1	29.6	28.8	24.0	20.9	21.5	21.3
1784.6	60°	1327.0	665.1	55.5	27.8	23.3	22.7	21.1	19.5	19.8	18.9
1887.5	62.5°	1327.3	548.3	37.1	22.0	18.6	18.0	18.0	17.5	17.1	15.3
1967.2	65°	1299.0	418.6	24.7	17.5	15.0	14.1	15.1	15.0	13.7	11.2
1991.5	67.5°	1234.8	274.4	18.8	13.7	11.5	11.0	12.1	12.6	11.7	9.4
1902.8	70°	1102.9	159.7	15.5	10.6	8.7	8.1	9.7	10.8	9.7	7.6
1626.4	72.5°	916.1	86.2	12.6	7.9	5.9	5.4	7.8	8.8	7.8	5.6
1043.5	75°	594.4	46.2	9.7	5.2	3.1	3.4	5.8	6.5	5.4	3.6
306.3	77.5°	199.6	20.4	6.1	2.5	1.4	1.4	3.4	4.0	2.5	1.3
55.7	80°	44.5	8.5	2.5	1.1	0.5	0.5	0.7	0.7	0.4	0.0
17.1	82.5°	14.6	3.4	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
4.3	85°	5.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.4	87.5°	2.2	0.2	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>
445.3
439.4
386.4
307.4
206.4
124.2
92.1
86.4
82.4
77.0
70.0
63.1
56.1
47.8
40.0
34.1
31.0
29.2
27.9
26.9
25.8
24.3
22.9
21.3
18.8
14.8
10.8
9.2
7.2
5.4
3.2
1.1
0.0
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