

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: P938751

Luminaire Tested: **GALN-SB1A-740-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938751  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

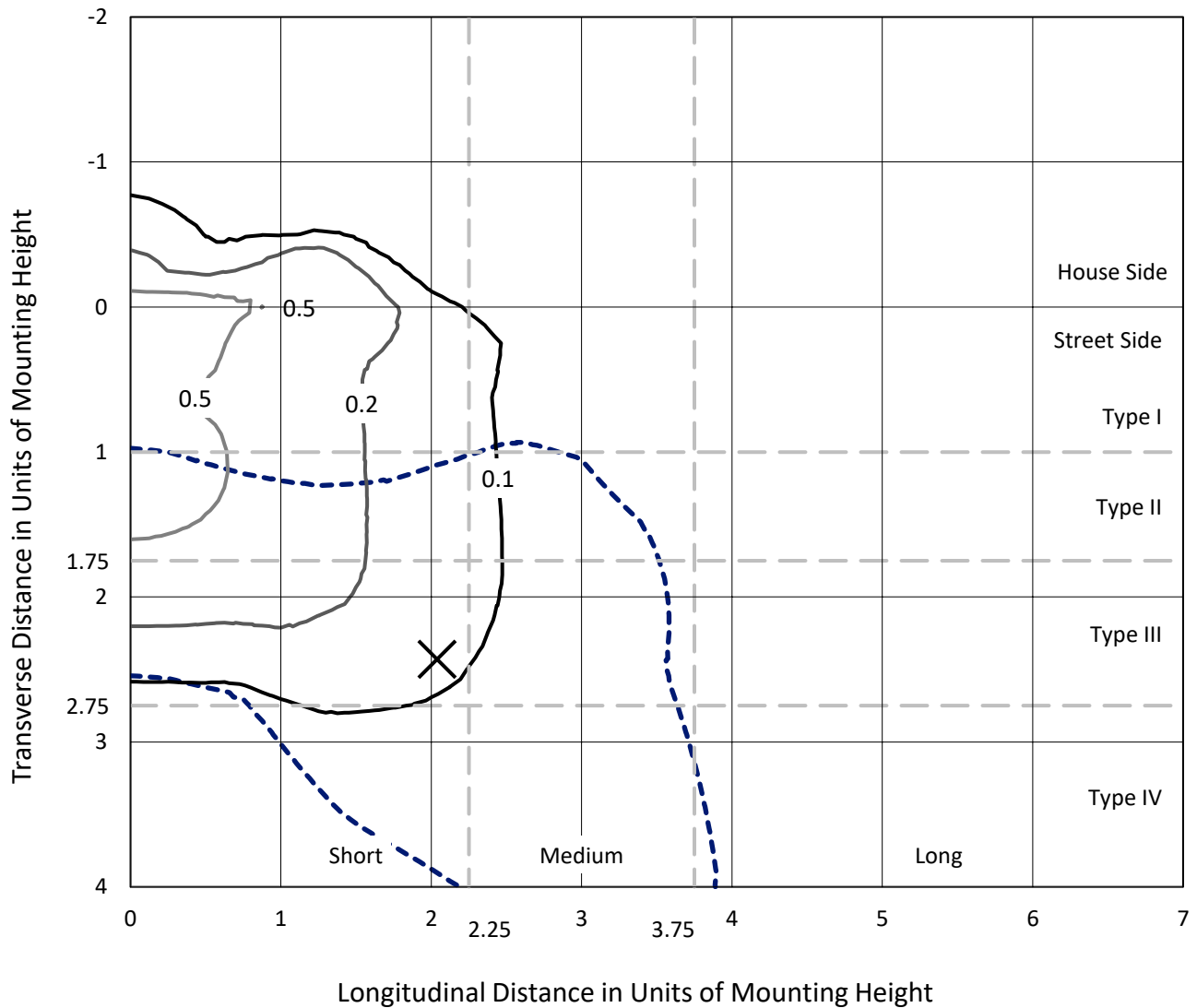
Lumens per Lamp: N/A  
Luminaire Lumens: 3314 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

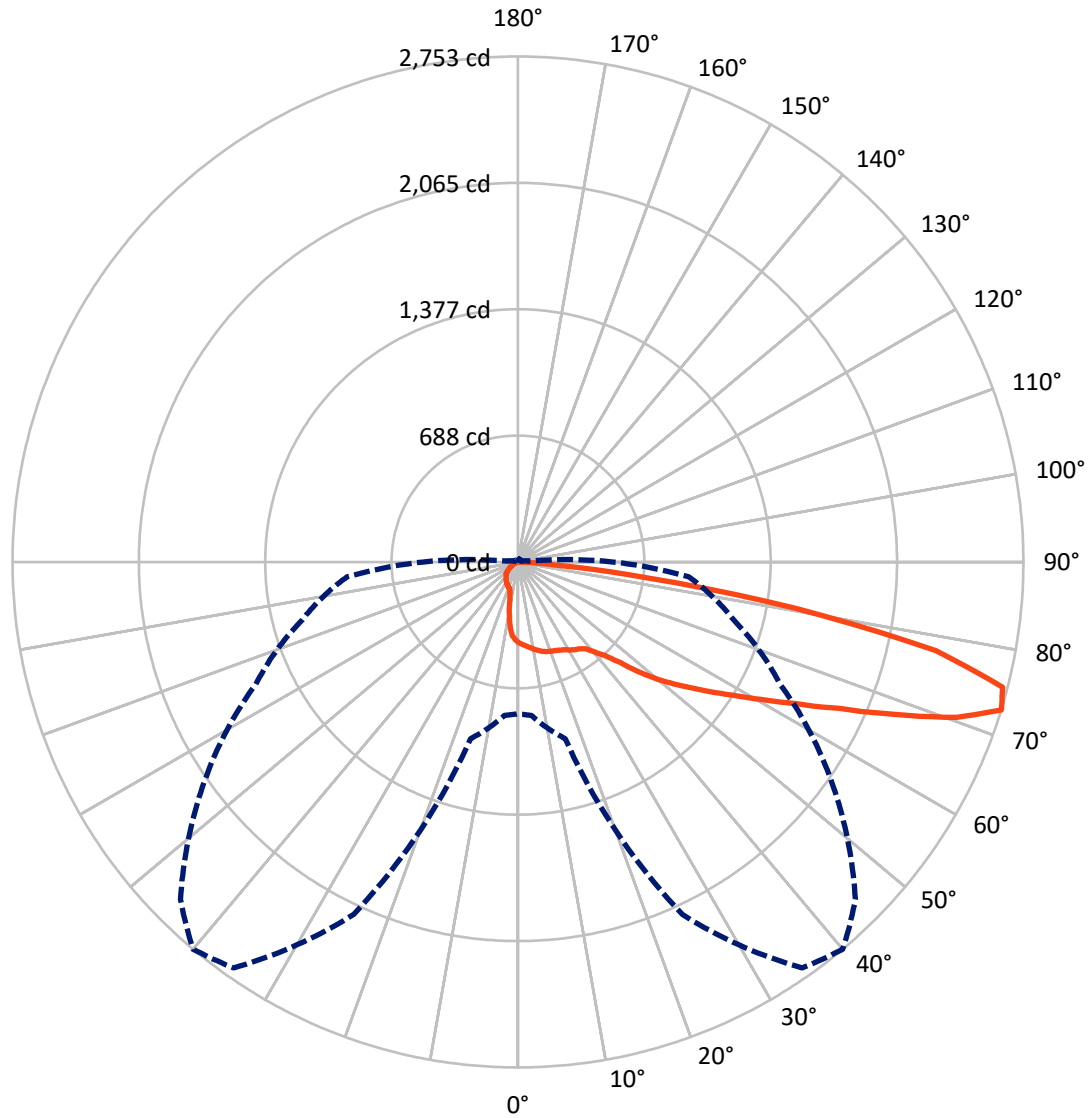
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	428.0	0.0	428.0
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	2886.0	0.0	2886.0
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	3314.0	0.0	3314.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.1	1.2
10°-20°	108.8	3.3
20°-30°	176.1	5.3
30°-40°	260.0	7.8
40°-50°	437.5	13.2
50°-60°	679.4	20.5
60°-70°	850.1	25.7
70°-80°	696.0	21.0
80°-90°	66.0	2.0
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°	3314.0	100.0
0°-180°	3314.0	100.0

**Coefficient of Utilization**



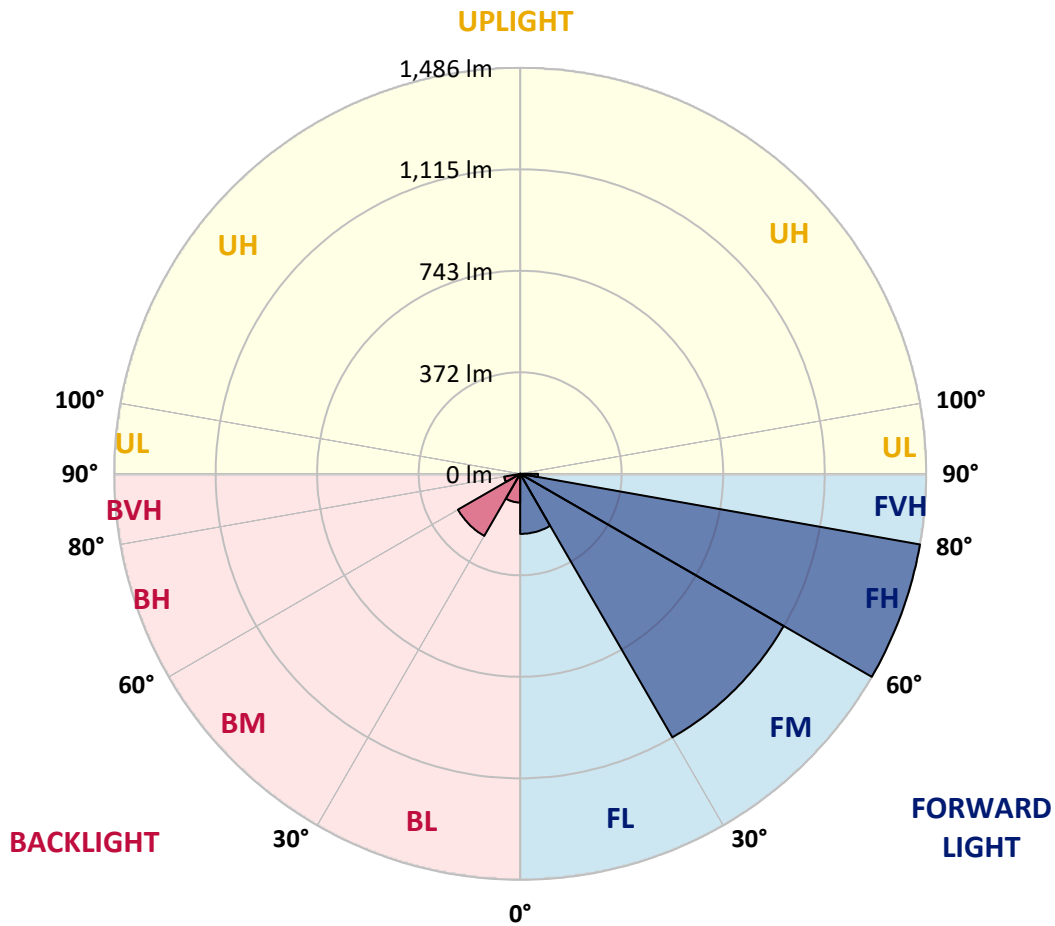
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	220.0	6.6			
FM (30°-60°)	1114.1	33.6			
FH (60°-80°)	1486.5	44.9			G1/1800
FVH (80°-90°)	65.5	2.0			G1/100
BL (0°-30°)	105.0	3.2	B0/110		
BM (30°-60°)	262.8	7.9	B1/1000		
BH (60°-80°)	59.6	1.8	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8
2.5°	452.0	453.8	452.8	450.8	450.3	449.3	448.0	447.5	445.8	444.3
5°	464.8	466.5	465.3	462.5	461.3	460.0	458.3	456.8	453.3	450.0
7.5°	478.7	480.2	478.7	474.7	472.7	471.2	468.8	466.5	462.5	457.8
10°	494.2	495.5	493.2	488.0	484.7	482.5	480.2	477.7	474.0	468.8
12.5°	508.7	510.2	506.7	500.5	496.7	494.5	492.0	490.0	486.2	481.2
15°	521.9	524.2	518.2	511.4	507.2	505.4	502.9	501.7	499.2	495.7
17.5°	531.9	533.4	527.2	519.2	514.4	513.2	511.4	512.2	511.7	509.9
20°	540.4	541.4	533.2	523.4	518.2	518.4	517.9	520.4	521.4	521.4
22.5°	550.9	551.1	540.6	528.4	522.2	523.9	524.7	527.4	529.4	531.4
25°	564.6	564.1	551.6	534.9	529.4	531.9	533.6	534.6	536.9	540.1
27.5°	585.1	583.6	567.6	545.4	538.9	541.1	544.4	543.9	542.9	545.4
30°	611.0	609.0	587.8	560.1	554.1	556.1	557.1	552.6	545.4	547.6
32.5°	652.2	648.7	619.3	576.6	567.3	569.6	568.3	559.1	548.4	550.6
35°	723.8	715.4	673.7	611.0	582.3	579.8	576.8	567.8	554.6	552.4
37.5°	876.1	861.1	790.0	678.2	616.3	600.0	590.8	581.8	561.4	552.4
40°	1047.8	1032.6	950.5	790.5	672.7	645.2	623.3	598.3	568.3	555.6
42.5°	1227.0	1210.3	1126.0	929.8	753.3	696.9	656.0	611.5	579.8	565.6
45°	1427.2	1406.3	1295.9	1075.0	870.4	782.8	708.6	638.7	599.8	583.3
47.5°	1638.4	1611.2	1465.4	1216.1	996.4	901.6	805.0	687.4	629.2	609.8
50°	1825.6	1798.6	1640.4	1363.6	1114.2	1014.6	914.8	754.8	673.4	647.2
52.5°	1960.1	1939.7	1799.6	1515.8	1236.8	1120.7	1014.4	833.2	729.3	695.1
55°	2050.2	2031.5	1912.5	1660.1	1379.3	1237.5	1112.5	918.3	796.7	752.6
57.5°	2104.9	2094.2	1994.1	1788.9	1520.6	1365.3	1224.8	1011.9	876.1	820.2
60°	2124.4	2115.6	2044.7	1911.7	1691.3	1518.8	1356.8	1117.5	972.4	897.1
62.5°	2072.4	2074.2	2081.2	2057.2	1871.3	1698.5	1515.1	1244.3	1079.3	984.2
65°	1828.1	1842.6	1975.4	2218.5	2109.6	1923.7	1716.5	1399.0	1201.6	1083.3
67.5°	1513.6	1534.6	1699.8	2312.8	2363.7	2216.0	1997.1	1596.2	1347.4	1184.1
70°	1158.7	1181.1	1381.3	2293.1	2601.6	2535.5	2344.0	1847.1	1498.4	1254.0
72.5°	826.9	838.4	996.2	2117.6	2699.2	2753.1	2599.6	2084.7	1575.5	1215.3
75°	581.1	579.1	683.7	1705.3	2547.2	2726.7	2510.0	1956.1	1425.7	965.5
77.5°	253.1	253.6	341.5	1035.6	2033.0	2328.8	2086.4	1225.3	993.9	511.7
80°	65.6	67.6	125.3	412.3	1224.0	1537.0	1272.5	538.6	459.3	124.8
82.5°	23.2	24.7	57.7	129.5	451.5	704.9	566.6	172.2	119.8	35.7
85°	6.7	8.0	31.0	39.7	93.4	199.2	137.5	33.4	29.5	18.5
87.5°	0.0	1.0	6.2	5.5	5.5	3.7	7.0	3.7	4.7	2.2
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°
438.8	0°	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8
442.5	2.5°	441.0	439.3	435.6	431.6	427.8	424.3	423.3	419.6	417.8	418.1
446.0	5°	443.3	440.0	432.8	424.1	415.1	404.9	396.4	384.4	374.2	372.9
452.8	7.5°	449.3	444.0	432.3	415.3	392.9	364.7	338.5	312.5	297.8	289.8
462.8	10°	458.5	451.5	433.6	401.1	353.4	303.0	263.3	230.6	213.9	206.2
475.0	12.5°	469.5	461.8	435.6	376.9	302.5	236.4	193.4	173.5	170.0	169.5
490.0	15°	485.0	476.5	437.8	344.2	247.4	180.0	160.2	160.5	163.2	164.7
506.2	17.5°	502.2	493.7	434.6	304.3	192.9	153.8	153.3	155.5	159.5	161.0
521.2	20°	519.7	511.7	423.1	257.3	156.0	146.5	148.5	151.0	155.0	157.0
535.9	22.5°	537.6	530.7	404.9	207.4	140.8	141.3	143.8	146.3	150.8	153.0
550.4	25°	556.9	550.9	380.6	166.2	134.3	135.8	139.0	142.0	146.8	149.5
562.6	27.5°	576.3	571.8	353.2	138.8	128.3	130.0	133.8	137.8	142.5	145.8
573.3	30°	597.5	595.1	331.2	128.5	122.6	124.1	128.3	132.8	138.0	142.0
584.1	32.5°	619.3	618.8	320.5	136.0	117.3	118.3	122.1	126.5	133.0	138.0
593.1	35°	640.7	641.7	314.2	157.2	115.6	112.8	115.3	119.3	127.0	133.3
603.3	37.5°	668.2	670.7	314.0	180.2	119.8	107.3	109.1	111.8	118.6	125.8
619.3	40°	709.1	722.3	330.0	199.9	127.3	102.3	102.8	103.3	106.8	112.8
640.5	42.5°	763.5	802.2	387.6	213.4	130.3	97.8	96.1	93.4	92.9	96.1
669.4	45°	831.2	898.8	489.0	220.9	127.3	92.9	88.1	80.9	78.1	80.4
708.6	47.5°	910.8	1004.6	609.0	222.6	122.3	86.6	78.1	68.6	66.4	67.1
761.3	50°	988.4	1084.0	714.6	208.2	114.1	78.6	67.1	59.2	57.7	57.9
823.4	52.5°	1057.1	1111.2	744.6	174.0	103.1	68.9	57.7	52.2	51.2	51.2
892.1	55°	1102.5	1081.8	663.9	133.0	89.4	58.9	49.4	46.7	46.2	45.9
968.7	57.5°	1112.0	985.9	501.5	96.1	69.9	49.7	43.9	42.4	41.4	40.4
1047.3	60°	1078.0	826.2	319.2	67.1	52.4	42.4	38.9	37.9	35.9	33.9
1121.2	62.5°	1004.6	624.0	176.7	46.7	42.2	36.2	34.4	33.2	29.5	26.2
1179.9	65°	906.1	414.8	78.1	36.4	34.4	30.5	29.5	27.7	23.2	19.5
1202.1	67.5°	807.0	238.9	35.2	29.2	27.7	25.0	24.2	23.0	19.7	16.2
1145.4	70°	693.9	121.1	24.2	23.2	21.5	19.0	19.7	19.5	16.2	13.2
934.3	72.5°	516.7	60.2	18.2	17.5	15.5	13.5	16.2	16.0	12.7	10.0
576.1	75°	292.5	29.7	13.2	12.2	9.2	10.0	13.0	12.2	8.7	6.5
243.1	77.5°	116.1	15.2	8.7	7.5	5.5	6.7	9.5	8.2	4.5	2.7
46.4	80°	26.7	7.5	4.5	3.2	2.5	4.0	5.0	3.0	1.2	0.2
12.5	82.5°	7.5	3.2	1.5	1.2	1.2	1.5	1.2	0.5	0.0	0.0
3.2	85°	2.5	1.5	0.5	0.2	0.2	0.2	0.2	0.0	0.0	0.0
1.0	87.5°	1.0	0.5	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>
438.8
417.8
372.2
289.3
204.7
169.2
164.5
160.7
157.0
153.0
149.5
146.0
142.5
138.5
134.3
127.0
114.8
97.8
80.4
66.9
57.9
50.9
45.4
39.9
33.2
25.2
18.7
15.7
12.7
9.5
6.0
2.5
0.0
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