

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: P938784

Luminaire Tested: **GALN-SB1A-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2849 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

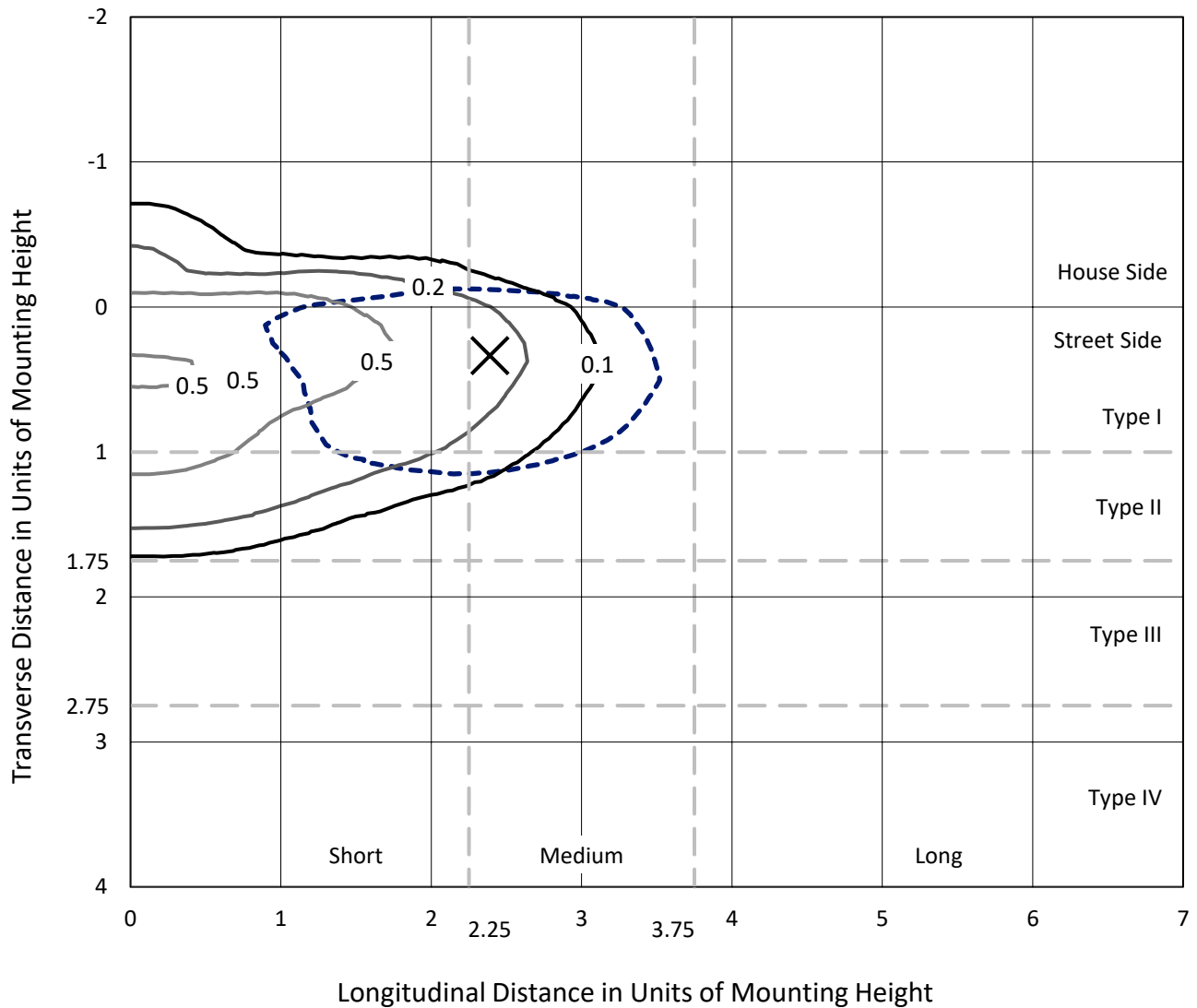
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

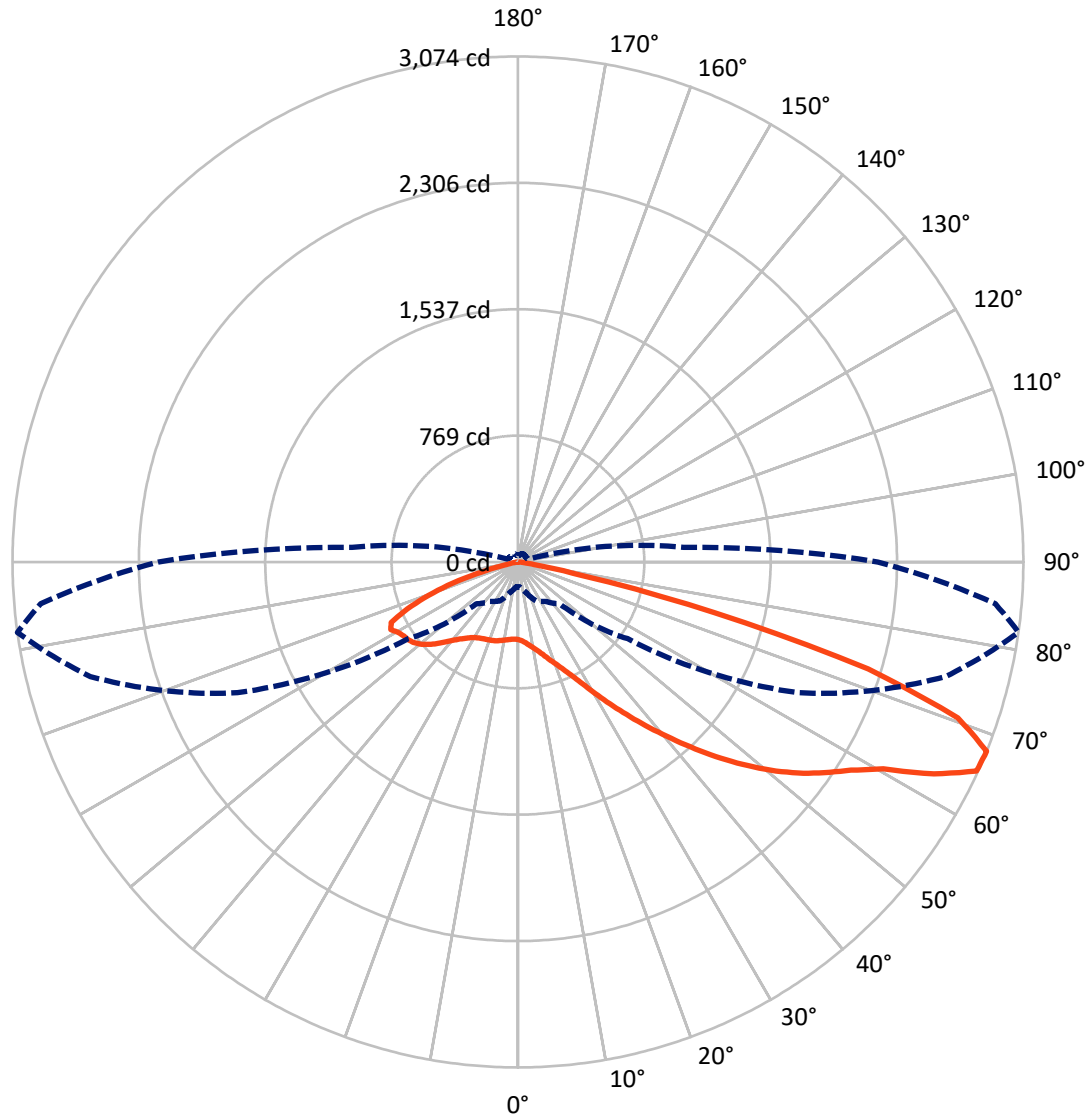
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	516.1	0.0	516.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2332.9	0.0	2332.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	2849.0	0.0	2849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	1.5
10°-20°	109.3	3.8
20°-30°	175.0	6.1
30°-40°	309.5	10.9
40°-50°	542.2	19.0
50°-60°	723.2	25.4
60°-70°	673.3	23.6
70°-80°	258.4	9.1
80°-90°	16.1	0.6
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°	2849.0	100.0
0°-180°	2849.0	100.0

Coefficient of Utilization



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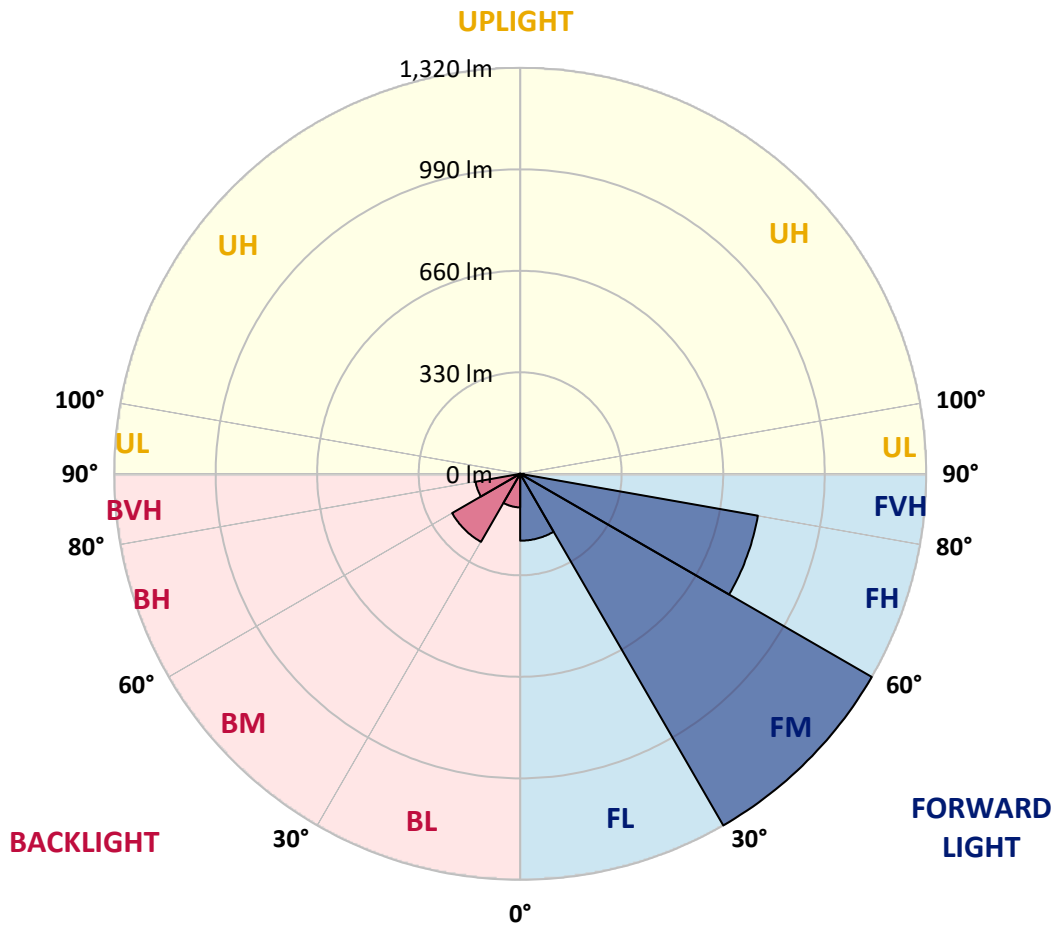
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.3	7.6			
FM (30°-60°)	1319.5	46.3			
FH (60°-80°)	784.4	27.5			G1/1800
FVH (80°-90°)	11.7	0.4			G1/100
BL (0°-30°)	109.0	3.8	B0/110		
BM (30°-60°)	255.4	9.0	B1/1000		
BH (60°-80°)	147.3	5.2	B1/500		G1/500
BVH (80°-90°)	4.4	0.2			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0
2.5°	498.9	501.7	500.1	499.3	497.8	495.8	494.1	489.0	483.7	480.2
5°	508.9	511.8	511.6	512.4	513.4	514.0	513.6	507.9	500.3	494.3
7.5°	500.3	503.6	506.2	510.3	517.5	525.1	528.8	527.6	519.8	511.6
10°	475.9	479.4	485.7	495.4	510.5	527.0	540.7	547.1	542.1	533.1
12.5°	431.2	434.7	447.2	468.1	493.5	522.0	548.3	565.3	566.5	557.5
15°	380.9	384.4	397.7	424.0	462.8	508.5	552.4	584.6	595.5	587.7
17.5°	349.7	352.8	362.9	384.0	424.4	481.4	551.0	605.1	629.9	623.8
20°	340.3	343.0	347.7	362.4	396.1	453.3	541.5	624.4	667.1	663.6
22.5°	350.3	352.8	354.2	360.8	381.9	434.9	529.6	644.1	710.1	710.5
25°	373.5	376.0	374.3	378.4	387.7	429.1	525.1	667.3	764.3	768.8
27.5°	411.7	411.9	408.0	407.8	409.2	437.7	529.8	692.1	832.6	841.0
30°	488.2	485.1	470.1	453.9	446.5	463.6	543.0	721.4	913.2	928.2
32.5°	606.1	601.6	574.1	535.4	496.4	505.2	566.5	754.8	1001.0	1028.1
35°	734.1	732.9	704.2	646.5	578.4	564.5	604.9	798.7	1096.8	1139.9
37.5°	853.1	852.5	836.1	768.2	685.3	647.2	666.4	856.2	1199.3	1261.7
40°	961.8	963.7	947.2	886.5	803.0	753.2	750.1	927.1	1313.4	1394.4
42.5°	1055.8	1057.8	1041.2	996.3	919.4	870.5	852.9	1014.1	1424.8	1537.0
45°	1119.5	1132.3	1129.8	1093.9	1038.7	988.1	976.4	1123.2	1551.7	1688.1
47.5°	1137.6	1149.3	1167.8	1172.7	1139.0	1089.2	1103.1	1254.7	1680.1	1839.5
50°	1093.1	1104.0	1142.3	1193.4	1216.8	1201.4	1226.4	1395.6	1811.6	1990.5
52.5°	1005.3	1016.4	1064.8	1145.6	1241.0	1289.4	1350.1	1534.5	1939.0	2133.5
55°	878.3	890.0	952.2	1043.7	1194.8	1325.7	1453.3	1673.2	2055.7	2262.1
57.5°	705.6	714.2	778.8	906.8	1078.7	1289.6	1529.4	1824.5	2165.7	2388.4
60°	459.9	467.5	542.5	685.3	886.3	1169.0	1544.6	1993.4	2311.7	2552.7
62.5°	305.8	311.0	355.5	460.3	624.2	937.4	1455.7	2128.1	2525.9	2838.7
65°	209.8	215.0	259.5	332.5	403.3	620.1	1200.4	2110.3	2719.9	3065.7
67.5°	149.7	154.0	191.8	260.7	291.9	360.2	813.7	1882.2	2692.0	3074.4
70°	107.3	109.7	140.9	203.1	232.0	216.4	452.5	1439.5	2357.0	2838.9
72.5°	75.1	75.9	97.8	154.7	186.9	157.9	215.4	959.8	1782.7	2228.2
75°	50.9	51.9	65.8	113.4	149.9	120.6	114.0	514.6	1046.5	1233.4
77.5°	31.2	31.6	42.5	77.5	112.2	91.9	73.4	218.0	404.9	397.5
80°	17.6	17.6	27.1	48.2	76.5	59.3	51.5	92.7	128.2	112.6
82.5°	9.8	10.1	19.7	29.9	50.7	35.1	28.3	42.9	55.4	49.0
85°	4.1	4.5	12.1	14.2	24.2	17.4	11.5	18.1	20.5	18.3
87.5°	0.4	0.6	3.7	2.7	2.9	3.5	1.6	3.5	2.9	2.9
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°
472.0	0°	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0
479.0	2.5°	475.1	472.0	464.2	455.2	443.3	437.5	429.7	424.4	419.9	420.3
490.9	5°	484.3	476.5	459.1	437.3	410.2	391.0	370.4	356.3	344.8	342.3
507.3	7.5°	497.0	484.7	454.1	415.0	369.2	334.6	303.6	283.7	269.5	265.0
527.2	10°	513.4	495.6	447.8	386.9	321.0	276.9	243.7	228.1	218.5	215.2
550.5	12.5°	532.5	508.1	439.4	352.6	271.4	228.9	207.8	200.0	196.9	195.9
579.3	15°	556.5	523.7	426.7	312.0	229.3	199.6	190.6	189.5	189.9	189.5
613.7	17.5°	585.0	540.7	405.9	270.1	201.0	184.6	181.3	182.1	183.2	183.0
652.3	20°	616.2	557.5	379.5	233.0	181.7	173.9	172.1	172.9	173.7	173.3
696.8	22.5°	651.7	575.6	350.1	204.1	168.8	164.1	162.0	162.3	162.3	161.4
753.2	25°	694.1	595.5	319.4	183.6	159.0	155.3	152.8	152.0	150.8	148.3
821.7	27.5°	744.8	616.6	289.8	169.2	151.2	147.7	144.8	142.8	139.7	135.6
904.0	30°	801.8	642.2	264.8	160.2	145.0	141.5	138.3	135.2	130.7	125.5
998.5	32.5°	868.9	669.7	246.6	154.3	139.5	135.8	131.9	128.2	123.3	118.1
1104.8	35°	948.9	702.9	235.9	150.1	135.2	130.3	125.9	121.8	118.1	113.6
1220.3	37.5°	1035.7	738.2	232.6	148.1	132.3	124.7	119.8	116.9	116.5	113.8
1345.2	40°	1130.6	780.1	235.1	146.9	129.2	119.4	114.0	113.4	114.5	109.7
1478.7	42.5°	1231.1	829.7	239.2	145.4	124.9	114.0	108.9	108.9	108.1	101.5
1619.8	45°	1339.8	886.9	243.3	141.9	119.8	108.7	104.8	103.4	99.9	93.5
1761.8	47.5°	1449.4	945.2	246.4	135.6	113.6	104.2	100.7	97.4	92.3	86.6
1901.1	50°	1553.4	997.5	243.1	126.1	106.7	99.9	96.2	91.7	86.2	82.3
2033.0	52.5°	1646.3	1042.8	229.1	115.1	99.3	95.4	92.1	87.4	82.9	78.8
2151.9	55°	1727.1	1079.6	204.5	104.6	92.7	91.5	88.2	82.3	76.1	72.6
2269.9	57.5°	1804.7	1107.4	173.7	96.0	86.8	87.2	82.3	76.9	71.2	67.5
2428.8	60°	1907.8	1144.8	142.6	88.0	80.4	81.6	76.3	72.4	65.2	60.5
2701.4	62.5°	2072.7	1202.8	113.2	78.2	73.0	73.4	71.2	66.5	57.8	52.3
2903.5	65°	2203.6	1181.5	89.2	67.5	64.6	65.2	65.2	60.1	50.9	44.5
2914.4	67.5°	2188.8	1011.7	71.2	57.0	56.6	57.0	58.5	54.2	45.1	40.0
2692.4	70°	2016.3	804.7	57.0	47.4	49.2	48.2	52.3	49.4	40.6	35.5
2087.3	72.5°	1645.3	579.7	43.5	39.2	37.7	39.4	47.2	44.5	33.8	28.1
1105.6	75°	961.4	309.3	32.4	31.0	27.3	32.8	41.8	37.9	25.8	20.7
338.9	77.5°	313.0	107.9	23.8	22.8	20.3	26.5	35.7	32.0	21.1	16.4
99.3	80°	83.9	32.6	16.2	15.0	13.1	19.7	28.3	25.4	15.2	10.7
42.7	82.5°	33.6	13.7	9.4	8.4	7.2	13.5	22.4	20.5	11.3	6.8
13.3	85°	10.9	4.5	3.5	2.7	3.3	8.4	13.3	13.9	8.0	3.5
2.1	87.5°	1.4	0.6	0.6	0.8	0.6	1.4	4.1	3.9	2.3	0.4
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>
472.0
416.2
336.8
260.5
212.7
195.3
189.3
182.6
173.1
161.0
147.9
135.2
125.1
118.4
113.2
113.6
109.9
101.5
93.3
86.4
81.6
78.4
72.2
67.1
59.9
51.9
43.9
39.2
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27.5
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