

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: P938816

Luminaire Tested: **GALN-SB1A-840-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3366 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

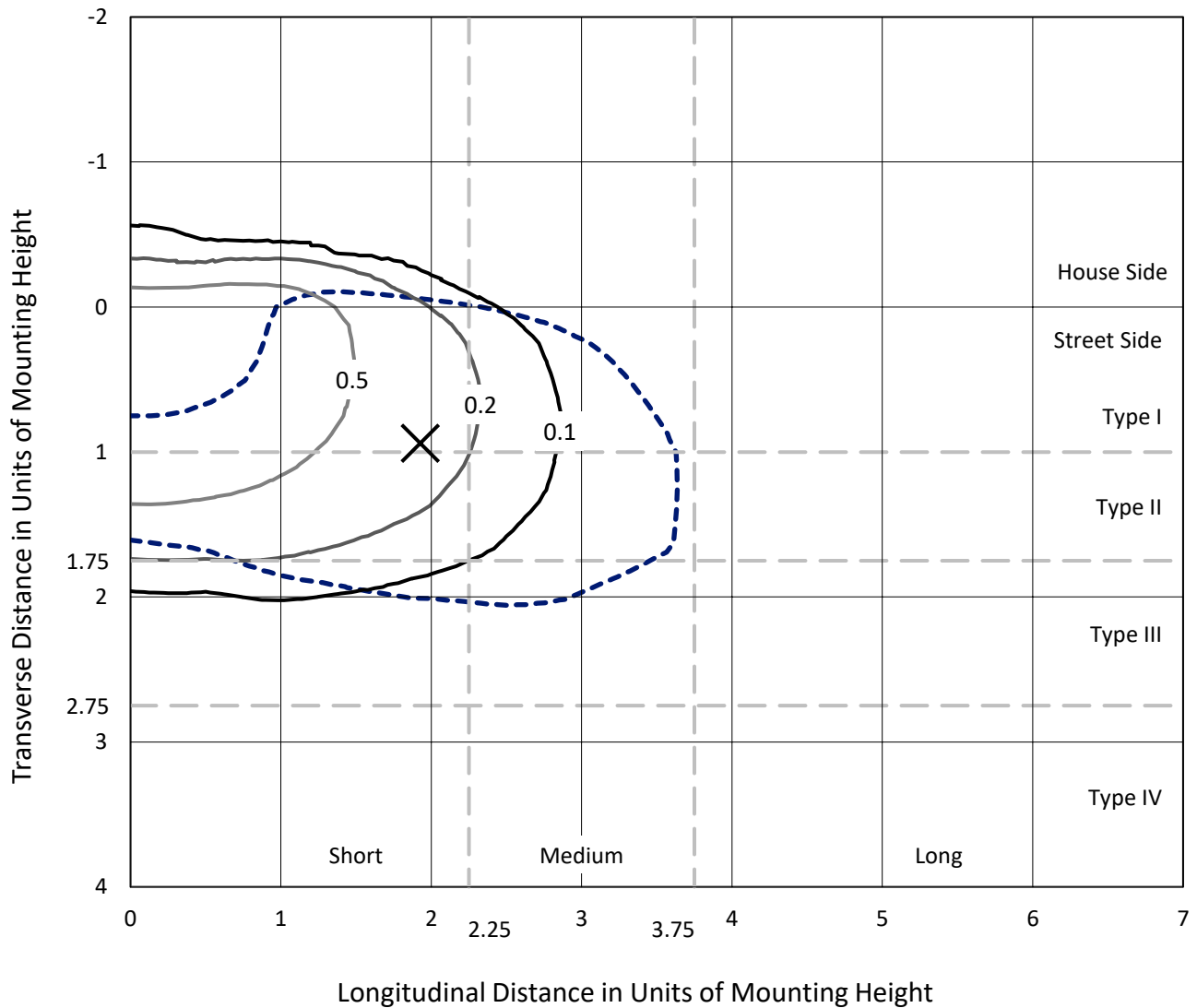
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

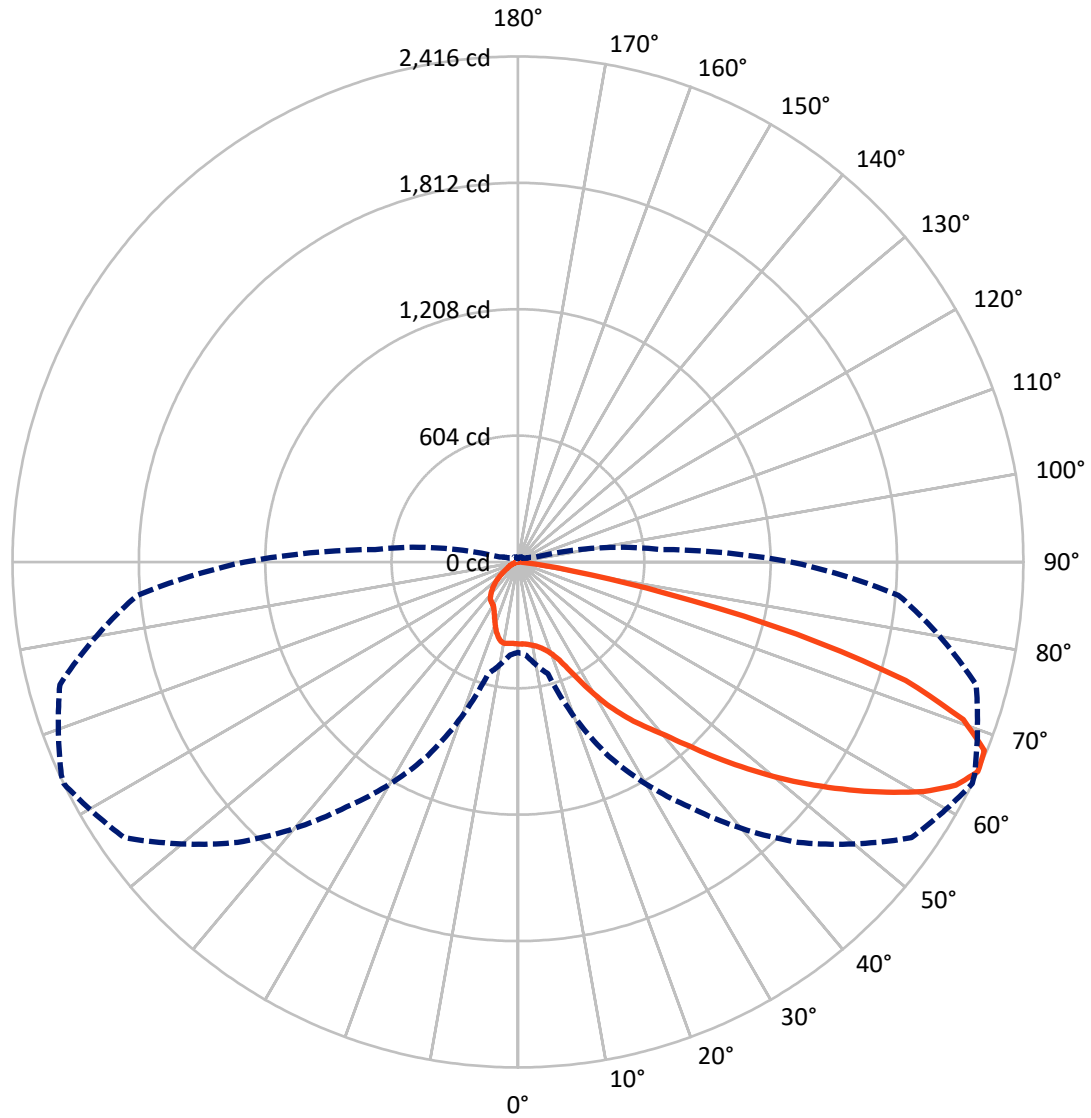
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	450.1	0.0	450.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	2915.9	0.0	2915.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	3366.0	0.0	3366.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	1.1
10°-20°	98.0	2.9
20°-30°	185.6	5.5
30°-40°	375.6	11.2
40°-50°	639.9	19.0
50°-60°	870.2	25.9
60°-70°	817.2	24.3
70°-80°	327.4	9.7
80°-90°	15.9	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°	3366.0	100.0
0°-180°	3366.0	100.0

Coefficient of Utilization



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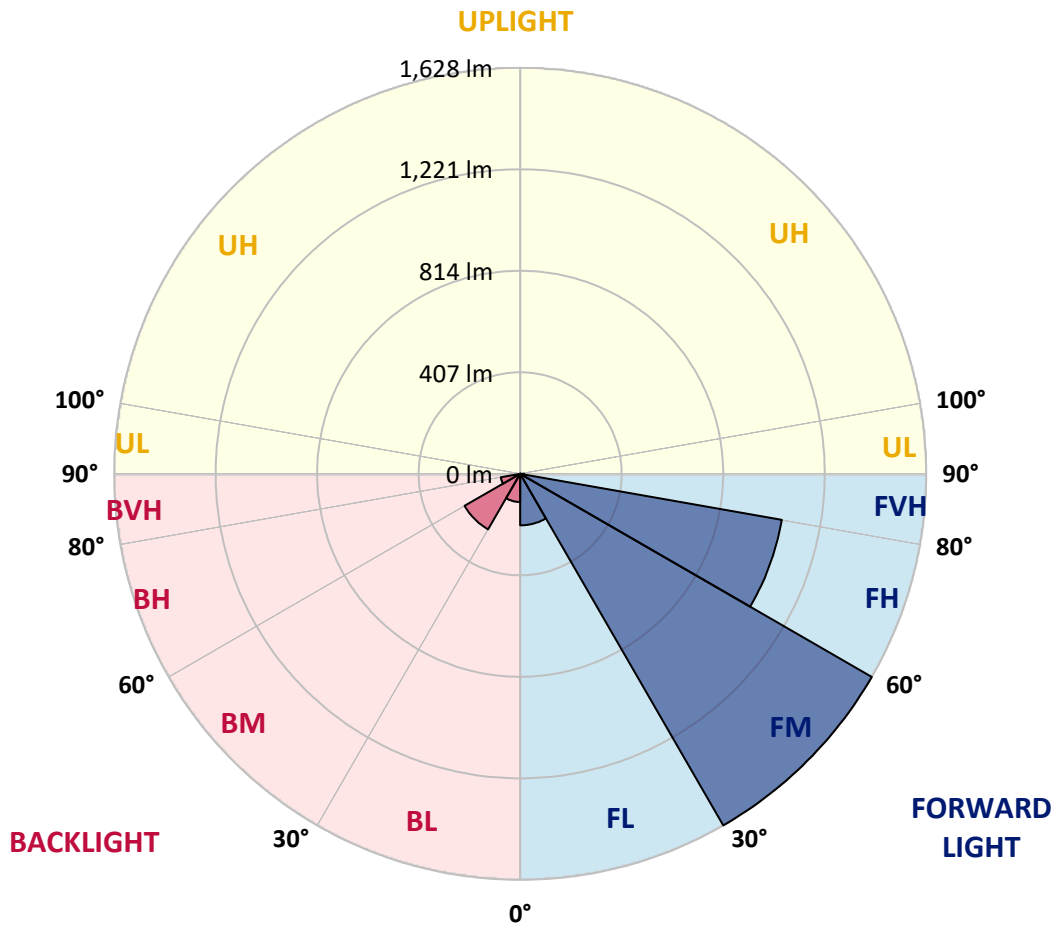
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	206.7	6.1			
FM (30°-60°)	1628.5	48.4			
FH (60°-80°)	1065.6	31.7			G1/1800
FVH (80°-90°)	15.1	0.4			G1/100
BL (0°-30°)	113.0	3.4	B1/500		
BM (30°-60°)	257.3	7.6	B1/1000		
BH (60°-80°)	79.0	2.3	B0/110		G0/110
BVH (80°-90°)	0.8	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5
2.5°	390.1	392.9	392.2	391.5	391.3	391.7	392.0	391.7	391.7	391.7
5°	382.7	385.0	385.0	386.5	388.8	391.5	393.5	394.0	394.4	395.1
7.5°	368.5	370.3	371.6	376.8	382.5	389.7	395.8	398.9	399.4	401.9
10°	358.8	361.0	363.3	368.7	376.8	387.7	398.0	405.7	406.8	412.7
12.5°	358.3	360.6	363.5	369.4	378.9	390.4	403.0	414.1	416.1	424.7
15°	363.1	365.8	368.5	375.7	385.9	399.8	413.4	427.2	429.2	441.4
17.5°	372.8	376.4	378.4	385.6	396.5	412.0	429.9	445.7	447.5	461.7
20°	392.0	396.2	396.9	402.8	413.4	430.1	451.3	470.9	473.2	489.4
22.5°	431.7	437.8	432.3	435.3	444.8	461.5	484.5	509.3	512.4	531.0
25°	501.6	510.2	496.2	491.2	495.3	512.7	541.6	572.9	576.5	591.4
27.5°	639.0	628.0	606.8	586.0	573.8	583.8	616.2	655.1	659.6	674.0
30°	790.0	780.3	751.6	705.6	676.7	675.1	705.2	748.5	753.7	767.4
32.5°	941.2	931.9	900.8	844.2	794.1	769.2	790.0	838.1	840.8	849.6
35°	1089.9	1080.4	1049.3	991.3	929.7	873.3	869.2	923.4	924.3	933.5
37.5°	1239.5	1231.6	1198.4	1141.6	1080.9	1003.0	965.3	1004.1	1005.3	1014.3
40°	1346.2	1349.6	1326.8	1282.8	1230.7	1145.6	1073.2	1090.1	1083.3	1098.5
42.5°	1437.8	1444.6	1424.7	1402.6	1372.4	1297.5	1206.8	1203.8	1193.0	1201.1
45°	1517.0	1522.7	1504.9	1499.7	1499.0	1446.4	1352.8	1335.2	1320.0	1318.5
47.5°	1546.1	1557.0	1564.6	1582.0	1615.9	1593.8	1503.7	1476.4	1459.5	1447.1
50°	1557.2	1568.7	1594.9	1645.4	1725.5	1735.0	1654.0	1623.3	1602.6	1580.0
52.5°	1542.3	1562.8	1598.0	1683.1	1799.3	1848.3	1798.2	1771.3	1747.7	1710.9
55°	1454.5	1475.1	1547.0	1682.7	1836.1	1927.7	1934.5	1922.5	1895.9	1837.9
57.5°	1269.5	1300.0	1413.9	1625.3	1835.4	1996.1	2068.1	2076.6	2046.9	1963.8
60°	1013.2	1054.5	1193.5	1498.3	1778.8	2033.1	2185.2	2228.1	2196.5	2087.9
62.5°	707.0	754.8	886.3	1299.3	1649.3	2006.5	2270.7	2349.9	2326.0	2198.9
65°	431.2	446.6	552.6	1022.4	1429.0	1895.0	2297.1	2415.8	2407.9	2266.9
67.5°	287.3	300.1	330.6	701.1	1109.3	1672.3	2233.9	2404.3	2406.5	2255.8
70°	173.1	184.1	204.0	407.7	718.9	1323.7	2038.3	2257.6	2270.7	2108.0
72.5°	71.3	78.8	96.8	184.8	372.3	840.1	1623.1	1938.3	1968.8	1772.5
75°	40.4	44.2	56.9	92.7	161.6	391.5	983.2	1376.0	1420.9	1221.7
77.5°	26.9	28.7	36.8	60.0	90.9	133.6	420.2	716.9	802.6	667.2
80°	18.1	19.6	25.3	40.2	59.1	57.3	133.8	265.6	326.7	229.3
82.5°	12.2	12.4	18.1	26.4	37.5	27.8	39.5	82.6	103.8	66.3
85°	7.0	6.8	13.3	15.3	16.7	11.5	12.0	24.8	32.5	28.0
87.5°	0.9	1.4	5.2	4.1	2.3	2.5	2.5	4.3	6.3	6.8
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°
391.5	0°	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5
392.0	2.5°	392.0	391.7	391.0	390.4	388.8	387.9	388.3	387.9	387.7	387.9
394.9	5°	394.9	394.2	392.4	390.1	387.0	383.2	380.7	377.1	373.7	371.6
402.8	7.5°	402.8	402.1	399.6	393.3	383.2	367.1	352.5	339.6	329.9	324.3
415.4	10°	415.4	414.3	410.5	396.5	369.8	334.9	305.8	281.6	265.8	258.4
430.3	12.5°	430.3	429.0	422.2	393.5	344.6	290.0	249.8	222.9	208.3	201.7
447.5	15°	447.9	446.1	432.8	379.5	307.8	240.3	203.5	183.5	174.0	168.1
469.3	17.5°	469.8	466.6	440.7	358.6	267.8	202.4	175.1	160.0	151.6	146.0
498.0	20°	498.2	493.0	447.0	333.5	231.1	178.5	155.9	143.3	137.0	132.0
538.6	22.5°	537.9	530.5	454.7	306.4	205.1	162.0	141.7	132.5	127.3	121.6
595.3	25°	587.1	578.3	464.2	281.4	187.3	147.8	131.3	123.7	117.6	111.0
669.5	27.5°	656.0	640.2	475.4	260.9	171.9	135.6	121.9	113.3	106.3	100.9
753.7	30°	732.7	706.7	485.4	248.4	158.0	124.3	109.4	100.9	94.3	90.5
829.3	32.5°	805.3	770.1	491.9	243.0	145.3	111.5	95.9	86.6	81.7	80.6
903.3	35°	873.9	827.5	491.2	237.8	134.0	98.6	82.6	73.1	69.3	70.0
982.9	37.5°	952.9	888.6	486.5	229.7	124.8	86.9	71.1	62.7	59.3	59.6
1079.7	40°	1044.8	959.2	483.6	214.4	114.6	76.0	61.6	54.8	52.4	51.4
1181.7	42.5°	1142.7	1027.6	484.0	197.0	102.0	66.3	55.1	49.4	47.2	46.5
1295.2	45°	1241.1	1092.8	484.7	178.9	88.7	58.9	50.3	45.6	44.2	43.3
1410.3	47.5°	1333.6	1148.3	472.1	159.5	75.6	53.3	46.5	43.3	42.2	41.1
1525.8	50°	1419.8	1185.3	441.6	137.0	65.2	48.7	43.6	41.3	40.2	39.0
1630.5	52.5°	1486.8	1191.2	391.3	113.7	58.0	45.4	41.7	39.7	38.4	37.2
1715.2	55°	1516.6	1154.4	319.7	92.1	52.4	42.4	39.9	37.9	36.3	35.2
1781.7	57.5°	1508.9	1077.0	249.3	74.0	46.9	39.5	37.7	36.3	34.5	32.7
1835.7	60°	1471.2	973.4	188.0	61.6	42.0	36.3	35.2	34.1	31.6	28.9
1856.4	62.5°	1406.0	843.2	134.0	51.0	36.6	32.7	32.3	31.4	27.8	22.8
1825.7	65°	1306.3	685.1	90.3	42.4	31.4	28.7	28.9	27.3	22.6	16.9
1713.4	67.5°	1160.5	500.9	57.8	34.7	26.2	23.9	24.1	23.2	19.2	14.4
1500.3	70°	974.8	331.7	37.7	26.4	21.0	18.5	19.9	20.1	16.2	11.7
1151.5	72.5°	714.6	195.9	26.4	19.6	15.3	12.9	16.2	16.7	13.1	8.8
692.7	75°	407.3	93.0	19.9	14.2	9.5	9.0	12.6	12.6	9.0	5.9
299.9	77.5°	171.0	38.8	14.0	9.3	5.4	5.2	8.6	7.9	4.5	2.7
73.1	80°	49.4	17.4	7.4	4.5	2.3	2.0	3.4	2.5	1.1	0.5
27.8	82.5°	19.4	7.7	2.9	1.8	0.9	0.9	0.5	0.0	0.0	0.0
15.8	85°	11.5	3.2	1.4	0.7	0.2	0.0	0.0	0.0	0.0	0.0
3.4	87.5°	2.9	0.7	0.5	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>
391.5
388.8
372.1
324.5
257.7
201.1
168.3
145.5
131.1
120.7
110.3
99.7
89.8
81.2
70.0
60.5
51.2
46.3
43.3
41.1
39.0
37.0
35.0
32.5
28.4
22.3
16.5
13.8
11.3
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