

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: P944908

Luminaire Tested: **GALN-SB1A-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944908
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-SB1A-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA 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: 3429 lumens
Efficiency: N/A
Efficacy: 111.0 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

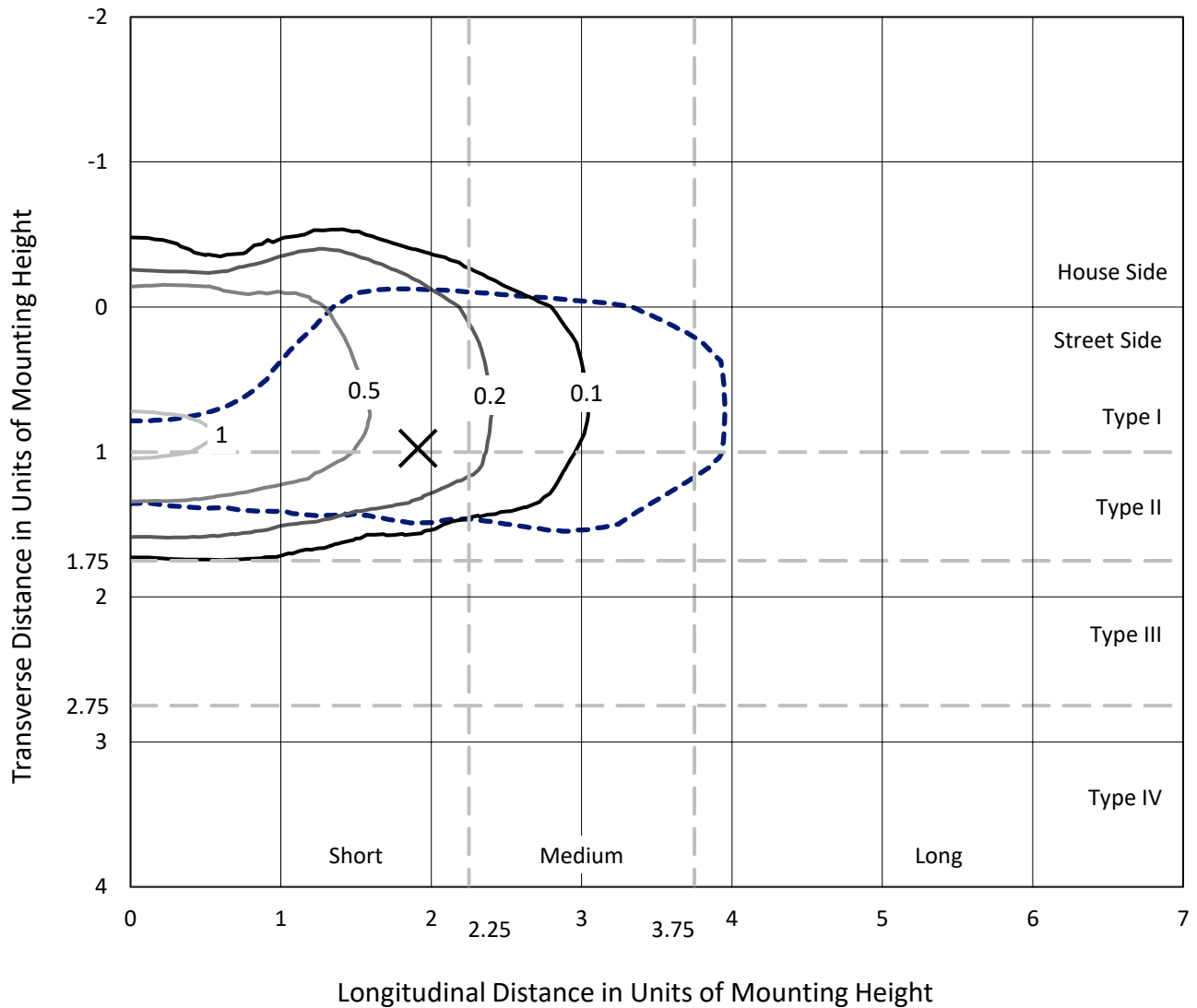
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SB1A-735-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

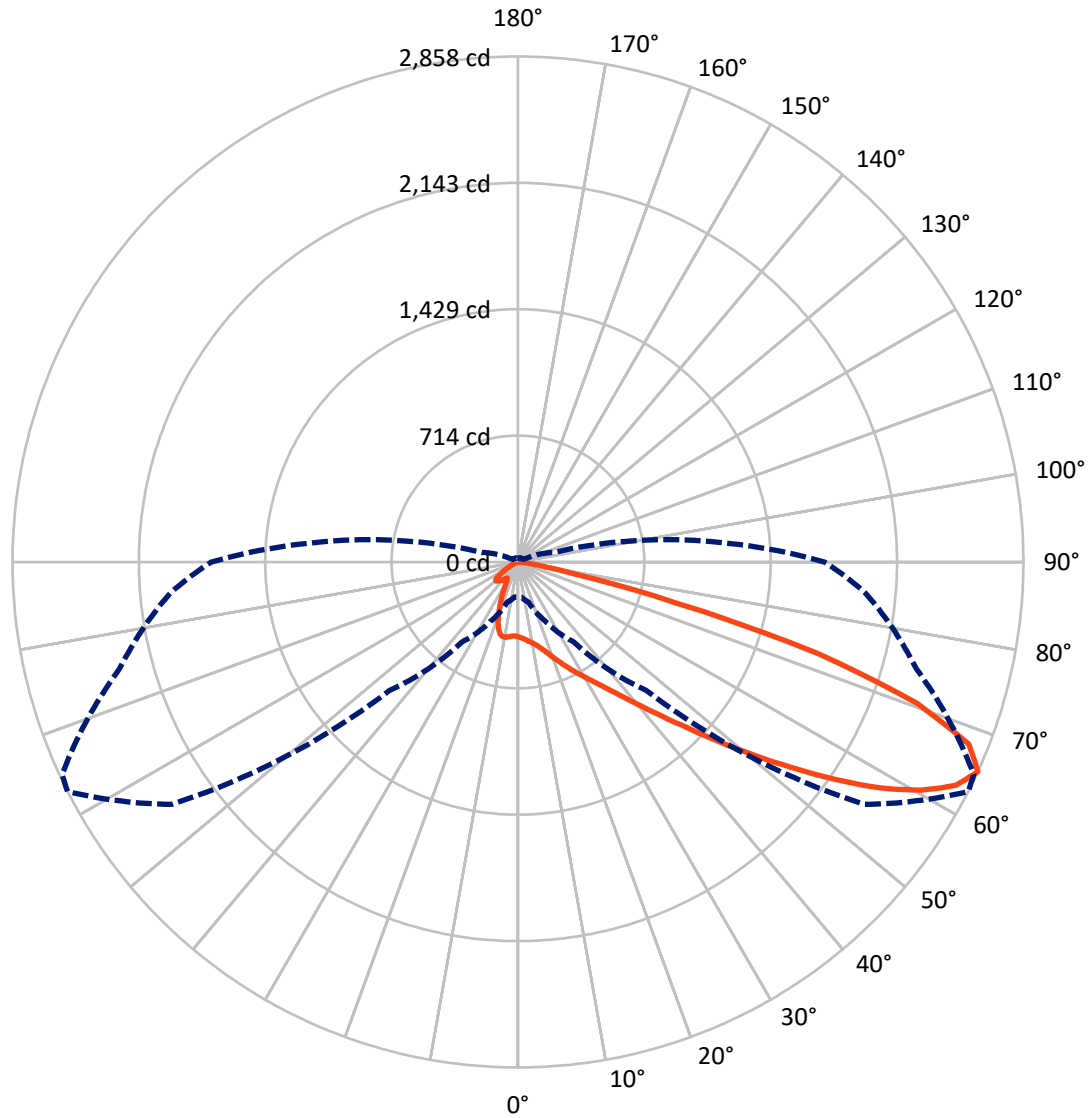
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

REPORT NUMBER: P944908
CATALOG NUMBER: GALN-SB1A-735-U-T2U-HSS

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
House Side	Lumens	504.0	0.0	504.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	2925.0	0.0	2925.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	3429.0	0.0	3429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	1.2
10°-20°	110.6	3.2
20°-30°	192.6	5.6
30°-40°	347.2	10.1
40°-50°	688.7	20.1
50°-60°	938.1	27.4
60°-70°	748.7	21.8
70°-80°	338.8	9.9
80°-90°	24.4	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°	3429.0	100.0
0°-180°	3429.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944908

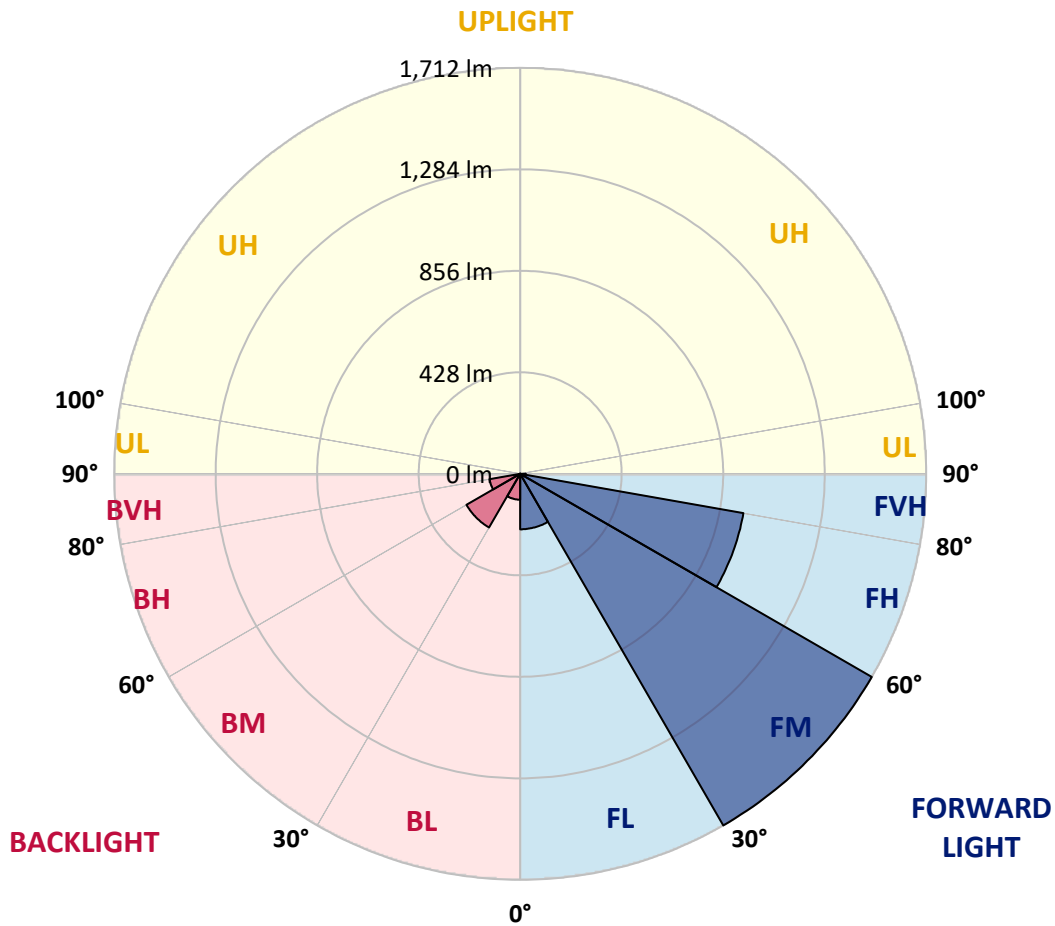
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	234.1	6.8			
FM (30°-60°)	1712.4	49.9			
FH (60°-80°)	956.0	27.9			G1/1800
FVH (80°-90°)	22.5	0.7			G1/100
BL (0°-30°)	109.1	3.2	B0/110		
BM (30°-60°)	261.6	7.6	B1/1000		
BH (60°-80°)	131.6	3.8	B1/500		G1/500
BVH (80°-90°)	1.8	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



REPORT NUMBER: P944908
 CATALOG NUMBER: GALN-SB1A-735-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2
2.5°	433.1	431.9	433.6	432.9	432.4	431.5	431.0	430.5	429.6	428.9
5°	434.3	433.6	435.2	436.6	438.1	439.5	440.2	441.1	440.2	438.3
7.5°	424.4	423.9	427.4	431.7	438.1	443.5	449.4	452.7	452.9	452.2
10°	423.7	422.5	426.0	431.2	439.5	449.2	459.5	466.6	467.6	470.6
12.5°	434.8	433.6	438.5	444.2	452.7	462.8	475.6	485.5	486.9	491.1
15°	453.4	451.7	457.4	464.7	475.6	487.1	500.6	509.5	510.7	515.9
17.5°	475.1	473.4	480.1	487.8	499.6	515.4	531.0	540.9	542.3	545.6
20°	502.9	500.8	506.0	513.1	525.6	544.5	563.1	577.2	577.0	577.0
22.5°	535.3	532.0	536.4	542.1	553.9	576.8	601.5	618.3	618.3	611.7
25°	569.9	566.6	571.6	576.8	587.2	613.1	642.1	662.9	663.8	652.5
27.5°	613.3	609.1	612.9	619.0	625.1	651.6	686.0	710.1	710.5	693.1
30°	696.8	684.8	673.0	666.4	669.2	695.4	732.2	758.9	761.2	737.2
32.5°	849.7	847.4	805.8	751.6	723.3	742.6	783.9	816.0	817.4	786.5
35°	1087.3	1084.4	1017.7	914.3	822.1	805.8	846.6	884.6	883.7	848.8
37.5°	1370.8	1368.2	1280.2	1142.0	992.7	901.4	927.6	967.4	973.3	927.6
40°	1613.1	1603.4	1547.7	1414.5	1219.1	1059.9	1042.7	1069.1	1075.2	1021.0
42.5°	1796.6	1788.4	1760.0	1676.8	1493.2	1294.4	1178.3	1188.5	1195.3	1130.2
45°	1891.7	1889.8	1901.1	1893.3	1772.5	1582.2	1372.2	1330.0	1332.6	1251.2
47.5°	1905.1	1904.2	1955.8	2029.0	2012.7	1906.8	1621.1	1506.5	1497.3	1387.8
50°	1825.9	1824.0	1923.1	2060.1	2173.1	2179.5	1903.7	1705.3	1685.0	1529.1
52.5°	1572.7	1572.3	1735.0	1963.2	2229.5	2418.2	2183.0	1923.8	1889.8	1678.7
55°	1210.2	1218.9	1405.5	1675.1	2126.6	2533.1	2433.8	2166.3	2114.1	1829.2
57.5°	857.3	870.0	1054.5	1294.6	1807.7	2465.1	2603.4	2409.2	2353.1	1979.2
60°	460.5	471.8	656.5	943.1	1344.9	2211.8	2692.8	2620.1	2567.1	2121.7
62.5°	274.4	278.1	354.6	608.9	909.6	1689.7	2654.8	2780.8	2737.1	2241.3
65°	197.0	197.7	236.1	371.8	552.2	1026.6	2388.5	2857.7	2844.2	2331.4
67.5°	165.8	165.4	181.4	247.0	376.3	514.3	1830.6	2748.9	2806.0	2388.5
70°	142.2	143.0	161.8	180.9	282.8	291.1	910.1	2393.4	2515.2	2403.6
72.5°	105.9	108.3	125.7	164.9	213.5	200.3	314.2	1774.7	1994.8	2264.6
75°	74.8	76.0	88.5	138.7	159.2	145.8	160.4	917.4	1199.5	1736.2
77.5°	57.6	59.7	67.0	97.0	156.9	102.4	98.1	317.5	487.8	1048.8
80°	31.1	34.9	48.4	70.1	110.2	72.4	48.6	126.4	165.4	490.4
82.5°	16.0	17.9	33.7	50.5	62.7	63.2	24.1	52.6	68.2	151.4
85°	6.4	7.8	22.6	27.8	32.3	31.1	10.9	21.2	24.5	42.0
87.5°	1.4	2.4	8.3	6.4	6.1	6.6	2.6	5.0	4.7	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944908
 CATALOG NUMBER: GALN-SB1A-735-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
423.2	0°	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2
426.0	2.5°	425.8	424.9	422.3	419.4	416.1	414.2	413.1	412.8	411.2	410.0
435.5	5°	432.9	431.9	427.0	421.1	414.7	409.8	405.0	400.8	394.7	393.5
449.2	7.5°	447.0	444.4	436.4	428.4	416.4	402.0	384.5	364.5	346.5	341.1
467.3	10°	464.5	460.9	450.8	436.6	410.0	370.8	328.6	289.4	258.3	249.6
488.8	12.5°	484.3	481.2	467.8	441.6	383.3	312.3	247.7	199.1	168.9	161.4
511.7	15°	507.9	503.4	484.8	434.1	335.7	237.3	170.1	141.3	130.5	129.0
537.9	17.5°	532.9	525.6	499.9	406.9	271.5	168.7	131.4	123.1	118.4	117.0
564.3	20°	555.8	546.3	508.8	365.9	202.9	131.4	117.7	112.3	108.0	106.4
590.7	22.5°	578.7	565.2	508.8	310.0	152.2	116.5	108.0	103.1	98.1	96.0
619.0	25°	602.5	584.6	499.9	247.7	122.4	106.9	98.8	93.4	89.2	86.6
645.9	27.5°	625.6	600.8	479.3	188.7	109.0	98.4	90.3	85.2	81.1	79.3
675.1	30°	647.5	616.9	450.6	143.2	100.3	90.1	82.6	78.1	74.1	72.2
713.1	32.5°	677.3	637.2	419.9	117.5	92.7	82.3	75.5	71.2	67.7	66.3
762.4	35°	718.5	667.1	393.5	115.4	86.3	76.0	69.1	65.1	61.6	60.4
826.1	37.5°	777.1	715.5	379.6	129.5	81.1	70.3	63.9	59.7	56.4	55.4
907.0	40°	849.2	781.1	387.1	143.7	77.6	65.3	59.2	55.0	52.1	51.0
1000.0	42.5°	934.9	862.0	428.9	154.5	75.3	61.1	54.7	50.0	48.1	47.7
1105.4	45°	1033.2	950.9	492.8	166.1	71.5	57.1	50.2	46.7	45.3	45.1
1220.1	47.5°	1145.1	1048.6	566.9	180.5	67.7	53.3	46.7	44.3	43.2	42.7
1339.7	50°	1255.9	1146.9	643.1	188.5	64.6	49.8	43.9	42.0	41.0	40.8
1466.1	52.5°	1372.0	1248.1	704.6	180.9	62.0	46.9	41.5	40.1	39.2	38.9
1582.6	55°	1482.6	1330.0	715.2	153.6	56.9	44.1	38.9	38.2	37.0	37.0
1700.8	57.5°	1577.9	1371.0	640.2	112.8	51.7	39.9	36.3	35.6	34.7	34.4
1807.5	60°	1665.4	1359.3	494.2	76.0	46.0	35.6	33.0	32.6	31.6	30.4
1900.2	62.5°	1714.8	1307.4	338.0	49.5	40.3	31.1	29.3	29.0	26.9	24.5
1968.8	65°	1733.4	1200.7	210.9	36.1	33.7	26.7	25.2	24.8	21.7	19.1
2007.7	67.5°	1717.1	1025.2	106.4	28.5	26.7	22.2	20.8	20.8	18.6	16.3
2005.4	70°	1652.0	768.6	44.8	22.9	20.5	17.0	17.0	17.9	15.8	13.2
1901.3	72.5°	1510.7	517.1	23.8	17.5	15.3	12.0	13.9	14.6	12.5	9.9
1556.2	75°	1201.0	315.4	16.5	13.0	9.7	8.5	10.6	11.1	8.5	6.6
1067.0	77.5°	821.4	181.2	11.1	8.3	6.1	5.0	7.3	6.8	4.5	3.1
411.4	80°	360.7	75.5	6.4	3.8	2.4	1.9	2.6	1.9	1.4	0.9
56.4	82.5°	42.2	17.7	2.4	1.4	0.9	0.5	0.2	0.0	0.0	0.0
17.2	85°	8.7	2.1	1.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0
3.1	87.5°	1.7	0.5	0.2	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>
423.2
411.2
393.0
338.5
246.3
159.2
127.6
116.3
105.4
94.8
85.6
79.3
72.4
66.3
60.4
55.2
50.7
47.7
44.8
42.7
40.8
38.9
36.8
34.2
30.2
24.1
18.9
16.0
13.0
9.9
6.4
3.3
0.9
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