

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: P944992

Luminaire Tested: **GALN-SB1A-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944992
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-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 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: 2982 lumens
Efficiency: N/A
Efficacy: 96.5 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

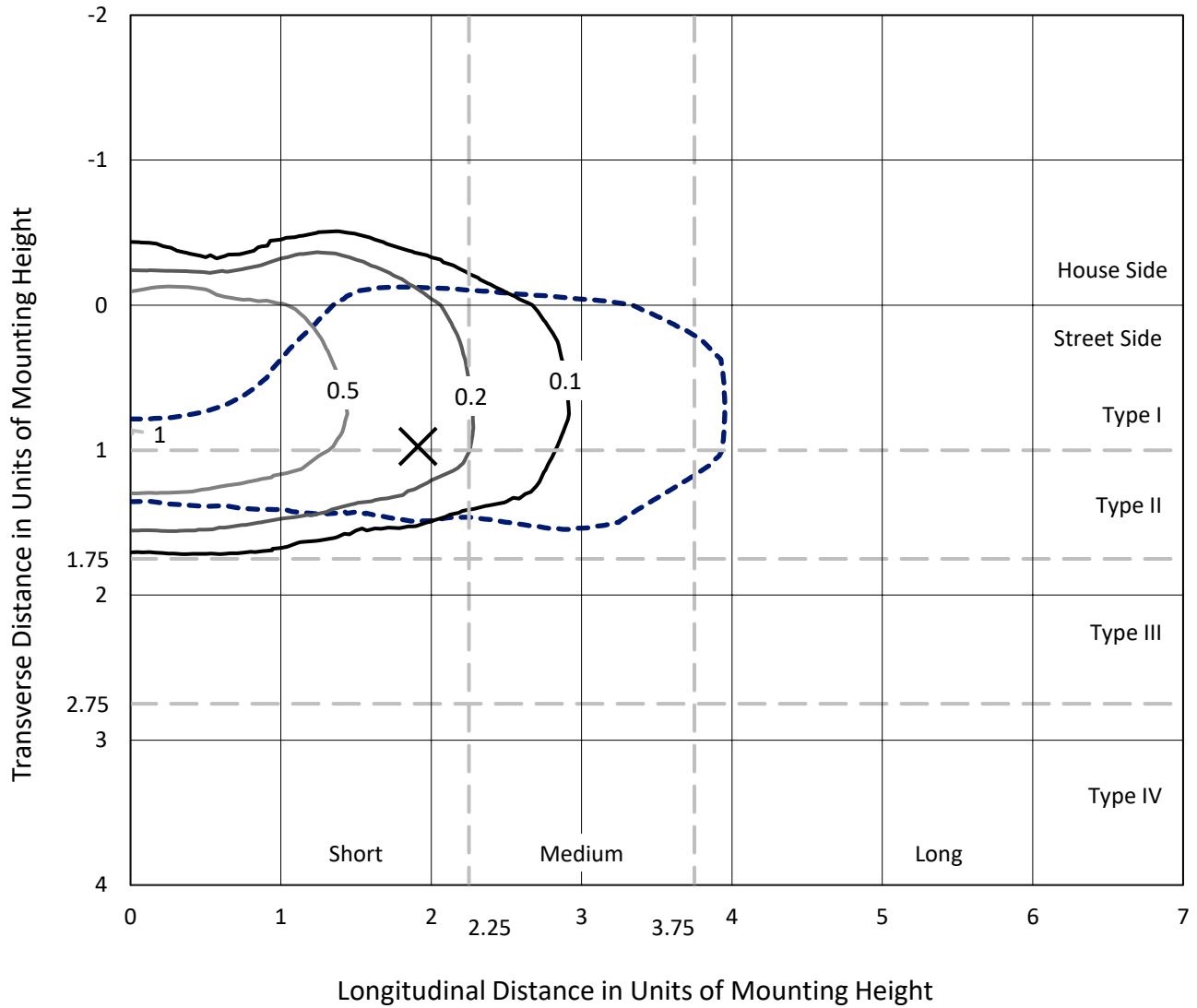
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944992
 CATALOG NUMBER: GALN-SB1A-827-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

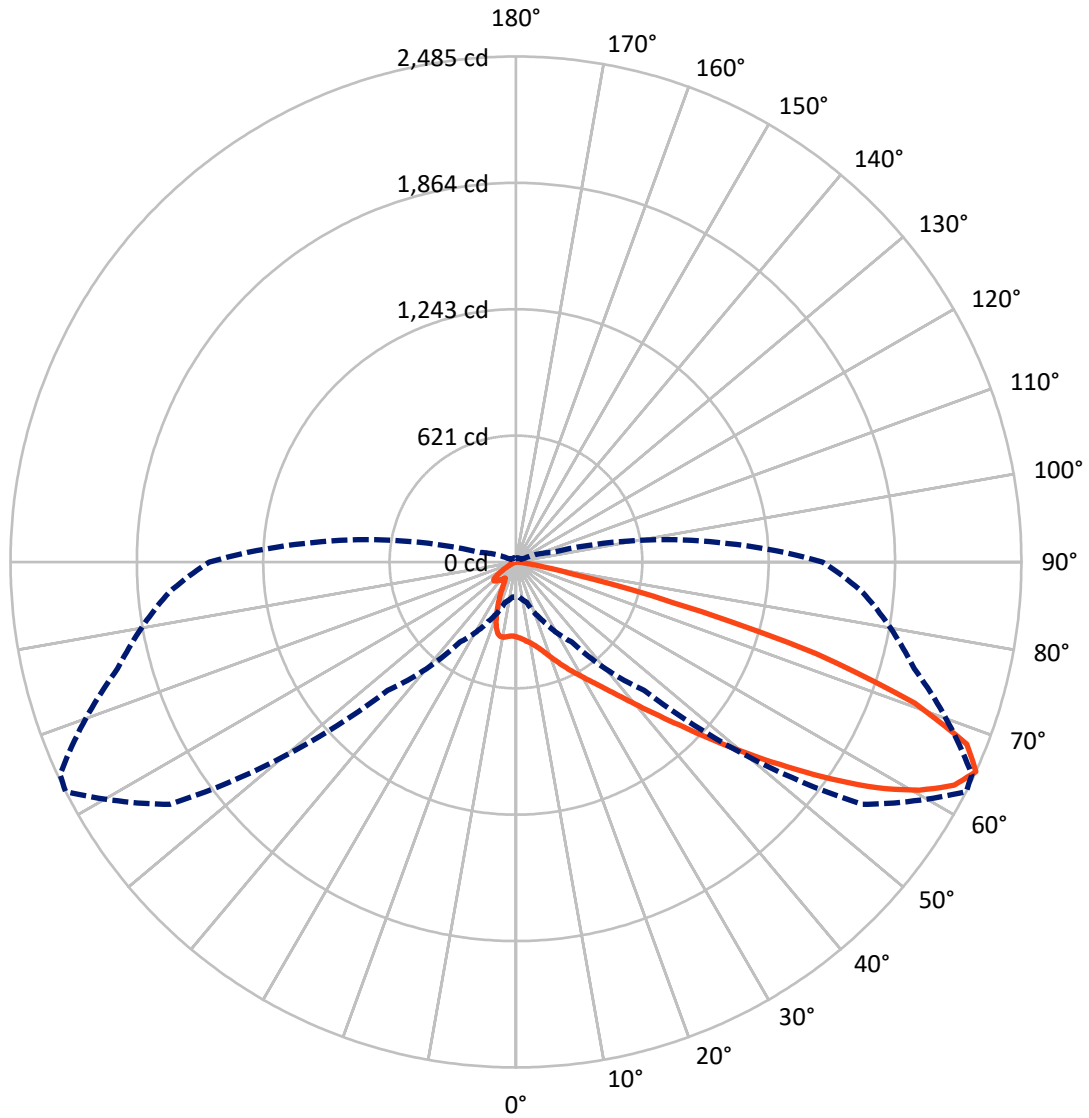
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P944992
CATALOG NUMBER: GALN-SB1A-827-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P944992
 CATALOG NUMBER: GALN-SB1A-827-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	438.3	0.0	438.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	2543.7	0.0	2543.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	2982.0	0.0	2982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	1.2
10°-20°	96.2	3.2
20°-30°	167.5	5.6
30°-40°	302.0	10.1
40°-50°	598.9	20.1
50°-60°	815.8	27.4
60°-70°	651.1	21.8
70°-80°	294.7	9.9
80°-90°	21.2	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°	2982.0	100.0
0°-180°	2982.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944992

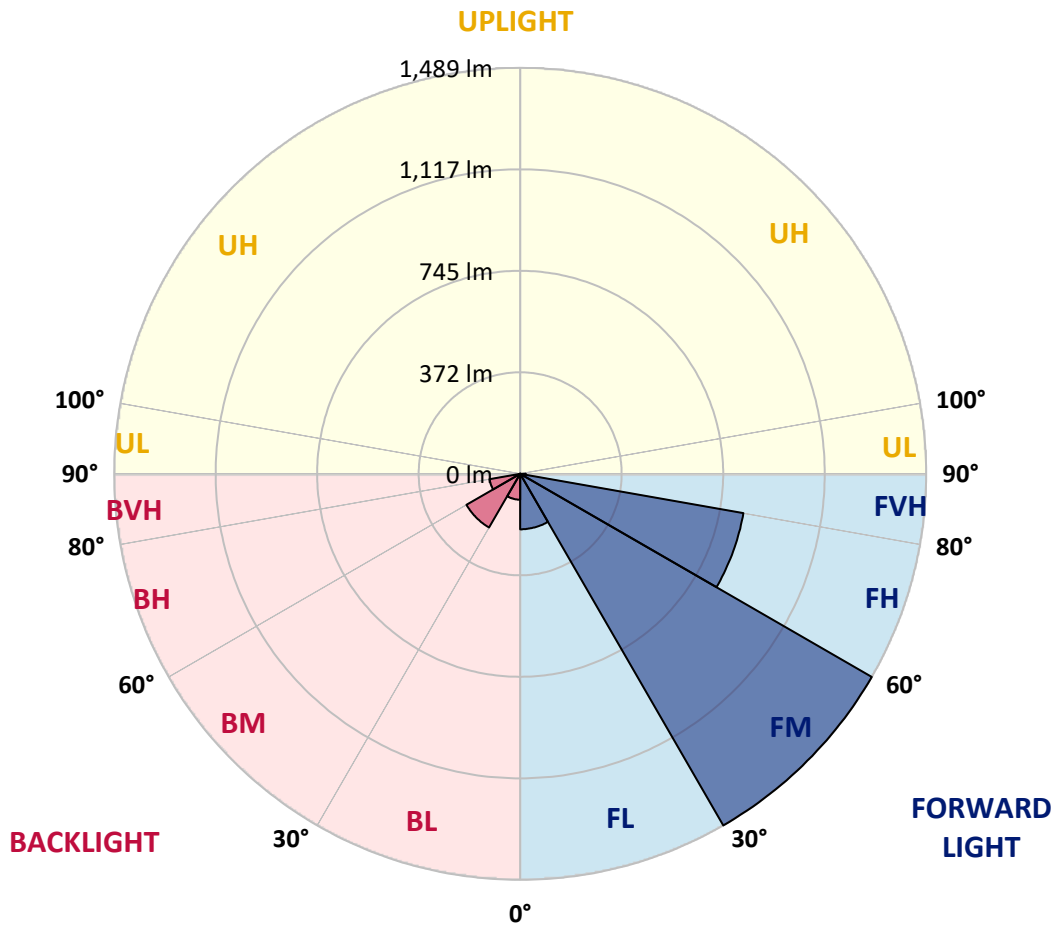
CATALOG NUMBER: GALN-SB1A-827-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	203.6	6.8			
FM (30°-60°)	1489.1	49.9			
FH (60°-80°)	831.4	27.9			G1/1800
FVH (80°-90°)	19.6	0.7			G1/100
BL (0°-30°)	94.9	3.2	B0/110		
BM (30°-60°)	227.5	7.6	B1/1000		
BH (60°-80°)	114.4	3.8	B1/500		G1/500
BVH (80°-90°)	1.6	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: P944992

CATALOG NUMBER: GALN-SB1A-827-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	368.0	368.0	368.0	368.0	368.0	368.0	368.0	368.0	368.0	368.0
2.5°	376.7	375.6	377.1	376.4	376.0	375.2	374.8	374.4	373.6	373.0
5°	377.7	377.1	378.5	379.7	381.0	382.2	382.8	383.6	382.8	381.2
7.5°	369.1	368.7	371.7	375.4	381.0	385.7	390.8	393.7	393.9	393.3
10°	368.4	367.4	370.5	375.0	382.2	390.6	399.6	405.8	406.6	409.3
12.5°	378.1	377.1	381.4	386.3	393.7	402.5	413.6	422.2	423.4	427.1
15°	394.3	392.9	397.8	404.1	413.6	423.6	435.3	443.1	444.1	448.7
17.5°	413.2	411.7	417.5	424.2	434.5	448.2	461.8	470.4	471.6	474.5
20°	437.4	435.5	440.0	446.2	457.1	473.5	489.7	502.0	501.8	501.8
22.5°	465.5	462.6	466.5	471.4	481.7	501.6	523.1	537.7	537.7	531.9
25°	495.6	492.8	497.1	501.6	510.6	533.2	558.4	576.5	577.3	567.4
27.5°	533.4	529.7	533.0	538.3	543.6	566.6	596.6	617.5	617.9	602.7
30°	606.0	595.5	585.3	579.5	582.0	604.8	636.8	660.0	662.0	641.1
32.5°	738.9	736.9	700.8	653.6	629.0	645.8	681.7	709.6	710.8	684.0
35°	945.5	943.1	885.0	795.2	714.9	700.8	736.3	769.3	768.5	738.1
37.5°	1192.1	1189.9	1113.3	993.1	863.3	783.9	806.6	841.3	846.4	806.6
40°	1402.8	1394.4	1346.0	1230.1	1060.2	921.7	906.8	929.7	935.1	887.9
42.5°	1562.4	1555.2	1530.6	1458.2	1298.6	1125.6	1024.7	1033.5	1039.5	982.9
45°	1645.1	1643.4	1653.3	1646.5	1541.5	1375.9	1193.3	1156.6	1158.9	1088.1
47.5°	1656.8	1656.0	1700.9	1764.5	1750.3	1658.2	1409.8	1310.1	1302.1	1206.9
50°	1587.8	1586.2	1672.4	1791.6	1889.8	1895.4	1655.5	1483.0	1465.4	1329.8
52.5°	1367.7	1367.3	1508.9	1707.2	1938.9	2103.0	1898.4	1673.0	1643.4	1459.8
55°	1052.4	1060.0	1222.3	1456.8	1849.4	2202.9	2116.5	1883.9	1838.5	1590.7
57.5°	745.5	756.6	917.0	1125.9	1572.0	2143.8	2264.0	2095.2	2046.3	1721.2
60°	400.4	410.3	570.9	820.2	1169.5	1923.5	2341.8	2278.6	2232.4	1845.1
62.5°	238.6	241.9	308.3	529.5	791.0	1469.5	2308.7	2418.3	2380.3	1949.1
65°	171.3	171.9	205.4	323.3	480.3	892.8	2077.1	2485.2	2473.5	2027.5
67.5°	144.2	143.8	157.8	214.8	327.2	447.2	1591.9	2390.6	2440.2	2077.1
70°	123.7	124.3	140.7	157.3	246.0	253.2	791.5	2081.4	2187.3	2090.3
72.5°	92.1	94.2	109.3	143.4	185.7	174.2	273.3	1543.3	1734.7	1969.4
75°	65.0	66.1	76.9	120.6	138.5	126.8	139.5	797.8	1043.2	1509.9
77.5°	50.1	51.9	58.3	84.3	136.4	89.0	85.3	276.1	424.2	912.1
80°	27.1	30.4	42.1	60.9	95.8	63.0	42.3	110.0	143.8	426.5
82.5°	14.0	15.6	29.3	43.9	54.6	55.0	20.9	45.7	59.3	131.7
85°	5.5	6.8	19.7	24.2	28.1	27.1	9.4	18.5	21.3	36.5
87.5°	1.2	2.1	7.2	5.5	5.3	5.7	2.3	4.3	4.1	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944992
 CATALOG NUMBER: GALN-SB1A-827-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
368.0	0°	368.0	368.0	368.0	368.0	368.0	368.0	368.0	368.0	368.0	368.0
370.5	2.5°	370.3	369.5	367.2	364.8	361.9	360.2	359.2	359.0	357.6	356.5
378.7	5°	376.4	375.6	371.3	366.2	360.6	356.3	352.2	348.5	343.2	342.2
390.6	7.5°	388.8	386.5	379.5	372.5	362.1	349.6	334.4	317.0	301.4	296.6
406.4	10°	403.9	400.9	392.0	379.7	356.5	322.5	285.8	251.7	224.6	217.0
425.1	12.5°	421.2	418.5	406.8	384.0	333.4	271.6	215.4	173.1	146.9	140.3
445.0	15°	441.7	437.8	421.6	377.5	291.9	206.4	147.9	122.9	113.4	112.2
467.7	17.5°	463.4	457.1	434.7	353.9	236.1	146.7	114.3	107.1	103.0	101.8
490.7	20°	483.3	475.1	442.5	318.2	176.4	114.3	102.4	97.7	94.0	92.5
513.7	22.5°	503.2	491.5	442.5	269.6	132.3	101.3	94.0	89.6	85.3	83.5
538.3	25°	523.9	508.4	434.7	215.4	106.5	92.9	86.0	81.2	77.5	75.3
561.7	27.5°	544.1	522.5	416.9	164.1	94.8	85.5	78.6	74.1	70.6	68.9
587.1	30°	563.1	536.5	391.8	124.5	87.2	78.4	71.8	67.9	64.4	62.8
620.2	32.5°	589.0	554.1	365.2	102.2	80.6	71.6	65.6	62.0	58.9	57.6
663.0	35°	624.9	580.2	342.2	100.3	75.1	66.1	60.1	56.6	53.5	52.5
718.4	37.5°	675.8	622.2	330.1	112.6	70.6	61.1	55.6	51.9	49.0	48.2
788.8	40°	738.5	679.2	336.6	124.9	67.5	56.8	51.5	47.8	45.3	44.3
869.6	42.5°	813.0	749.6	373.0	134.4	65.4	53.1	47.6	43.5	41.9	41.4
961.3	45°	898.5	827.0	428.6	144.4	62.2	49.6	43.7	40.6	39.4	39.2
1061.0	47.5°	995.8	911.9	493.0	156.9	58.9	46.4	40.6	38.6	37.5	37.1
1165.0	50°	1092.2	997.4	559.2	163.9	56.2	43.3	38.2	36.5	35.7	35.5
1275.0	52.5°	1193.1	1085.4	612.8	157.3	54.0	40.8	36.1	34.9	34.1	33.8
1376.3	55°	1289.4	1156.6	622.0	133.6	49.4	38.4	33.8	33.2	32.2	32.2
1479.1	57.5°	1372.2	1192.3	556.8	98.1	44.9	34.7	31.6	31.0	30.2	30.0
1571.8	60°	1448.3	1182.1	429.8	66.1	40.0	31.0	28.7	28.3	27.5	26.5
1652.5	62.5°	1491.2	1136.9	294.0	43.1	35.1	27.1	25.4	25.2	23.4	21.3
1712.2	65°	1507.4	1044.2	183.4	31.4	29.3	23.2	22.0	21.5	18.9	16.6
1746.0	67.5°	1493.3	891.6	92.5	24.8	23.2	19.3	18.1	18.1	16.2	14.2
1744.0	70°	1436.7	668.4	39.0	19.9	17.8	14.8	14.8	15.6	13.7	11.5
1653.5	72.5°	1313.8	449.7	20.7	15.2	13.3	10.5	12.1	12.7	10.9	8.6
1353.4	75°	1044.4	274.3	14.4	11.3	8.4	7.4	9.2	9.6	7.4	5.7
927.9	77.5°	714.3	157.6	9.6	7.2	5.3	4.3	6.4	5.9	3.9	2.7
357.8	80°	313.7	65.6	5.5	3.3	2.1	1.6	2.3	1.6	1.2	0.8
49.0	82.5°	36.7	15.4	2.1	1.2	0.8	0.4	0.2	0.0	0.0	0.0
15.0	85°	7.6	1.8	1.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0
2.7	87.5°	1.4	0.4	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>
368.0
357.6
341.8
294.4
214.2
138.5
111.0
101.1
91.7
82.5
74.5
68.9
63.0
57.6
52.5
48.0
44.1
41.4
39.0
37.1
35.5
33.8
32.0
29.7
26.3
20.9
16.4
14.0
11.3
8.6
5.5
2.9
0.8
0.0
0.0
0.0
0.0

F REPORT)