

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: P947873

Luminaire Tested: **GALN-SB3A-830-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-830-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

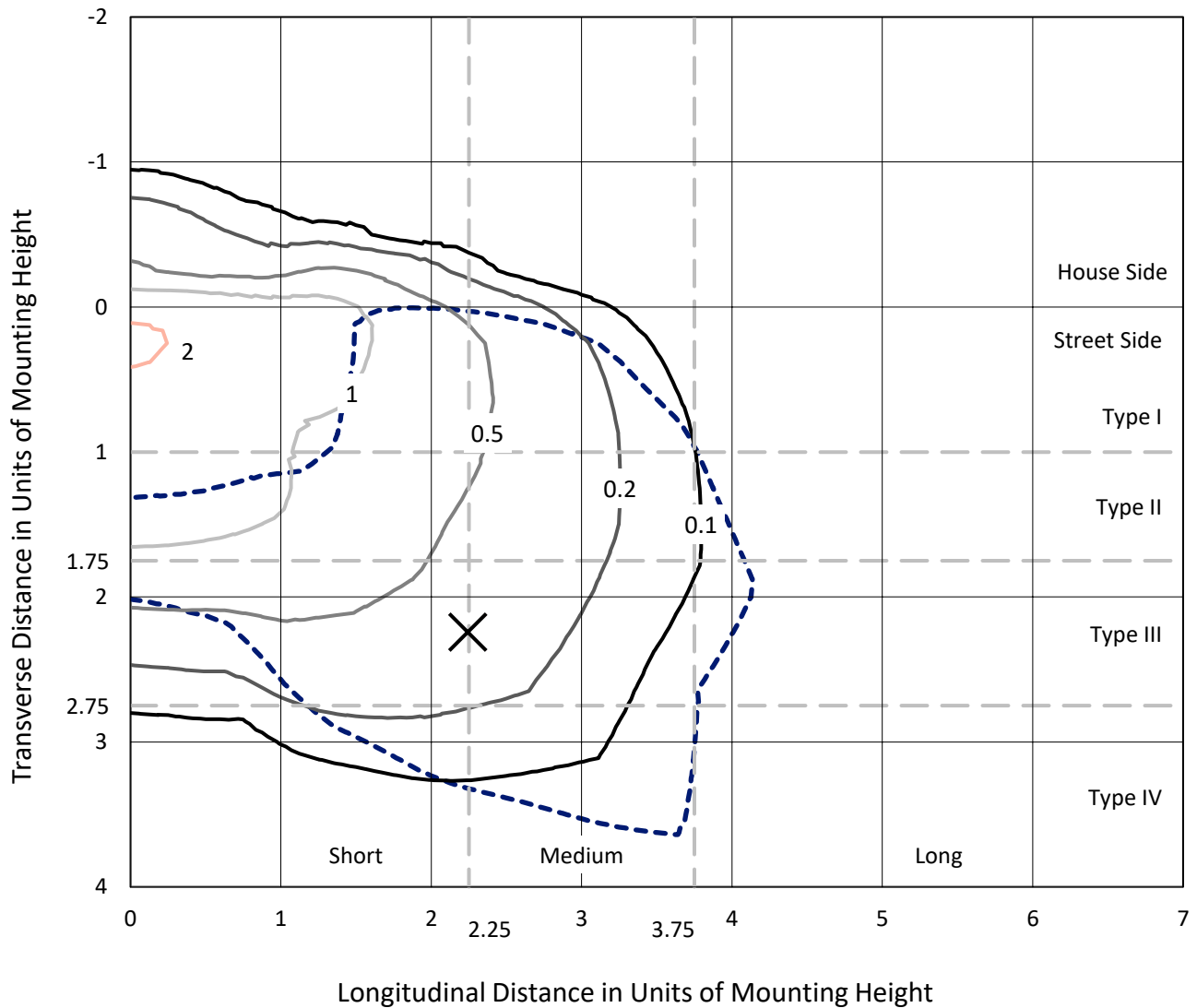
Lumens per Lamp: N/A  
Luminaire Lumens: 9316 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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: P947873  
 CATALOG NUMBER: GALN-SB3A-830-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

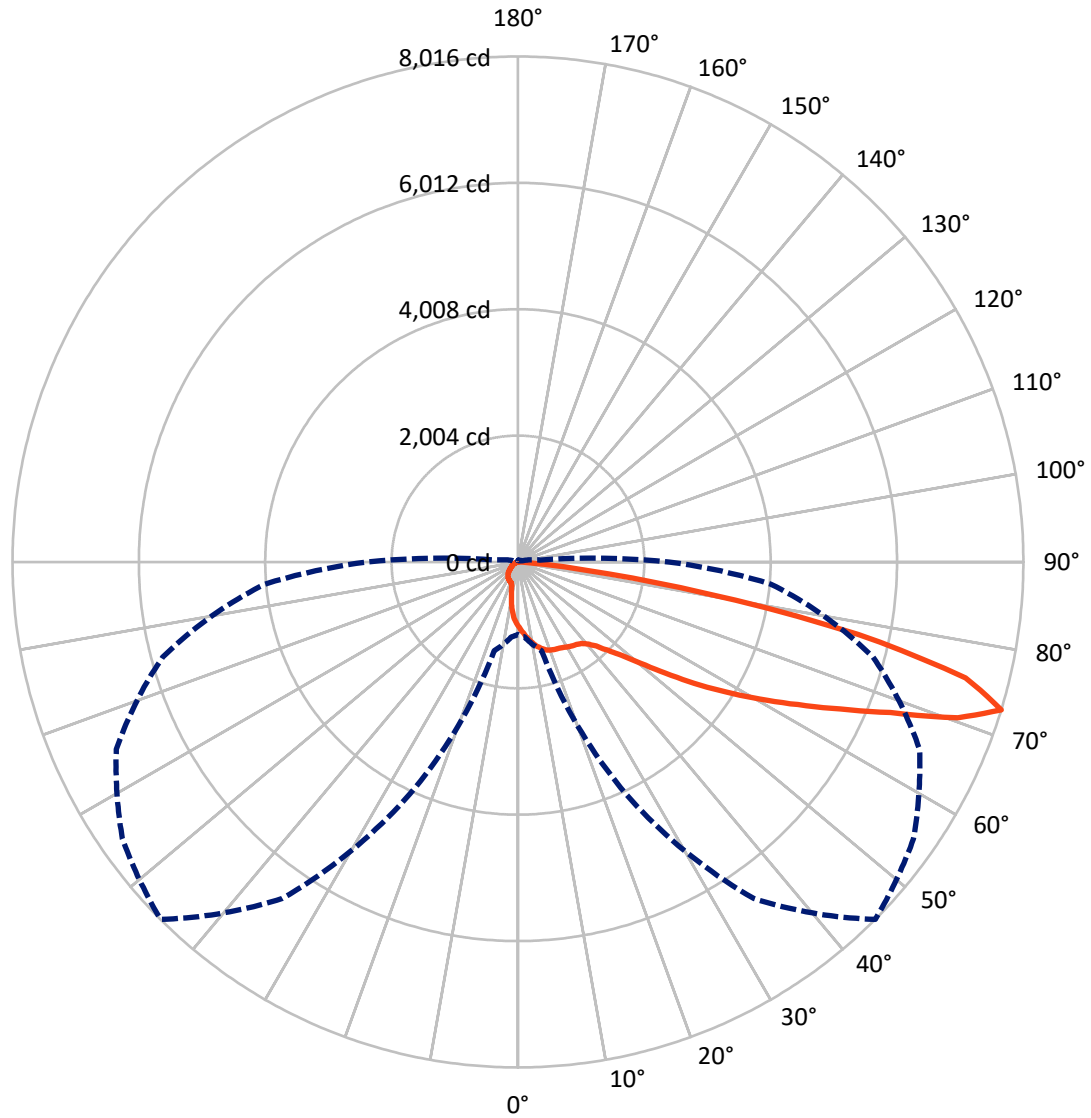
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P947873  
CATALOG NUMBER: GALN-SB3A-830-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P947873  
 CATALOG NUMBER: GALN-SB3A-830-U-T4W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	978.8	0.0	978.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	8337.1	0.0	8337.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	9316.0	0.0	9316.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.2	1.0
10°-20°	281.0	3.0
20°-30°	461.5	5.0
30°-40°	654.5	7.0
40°-50°	1081.9	11.6
50°-60°	1943.4	20.9
60°-70°	2698.5	29.0
70°-80°	1957.4	21.0
80°-90°	141.5	1.5
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°	9316.0	100.0
0°-180°	9316.0	100.0

**Coefficient of Utilization**



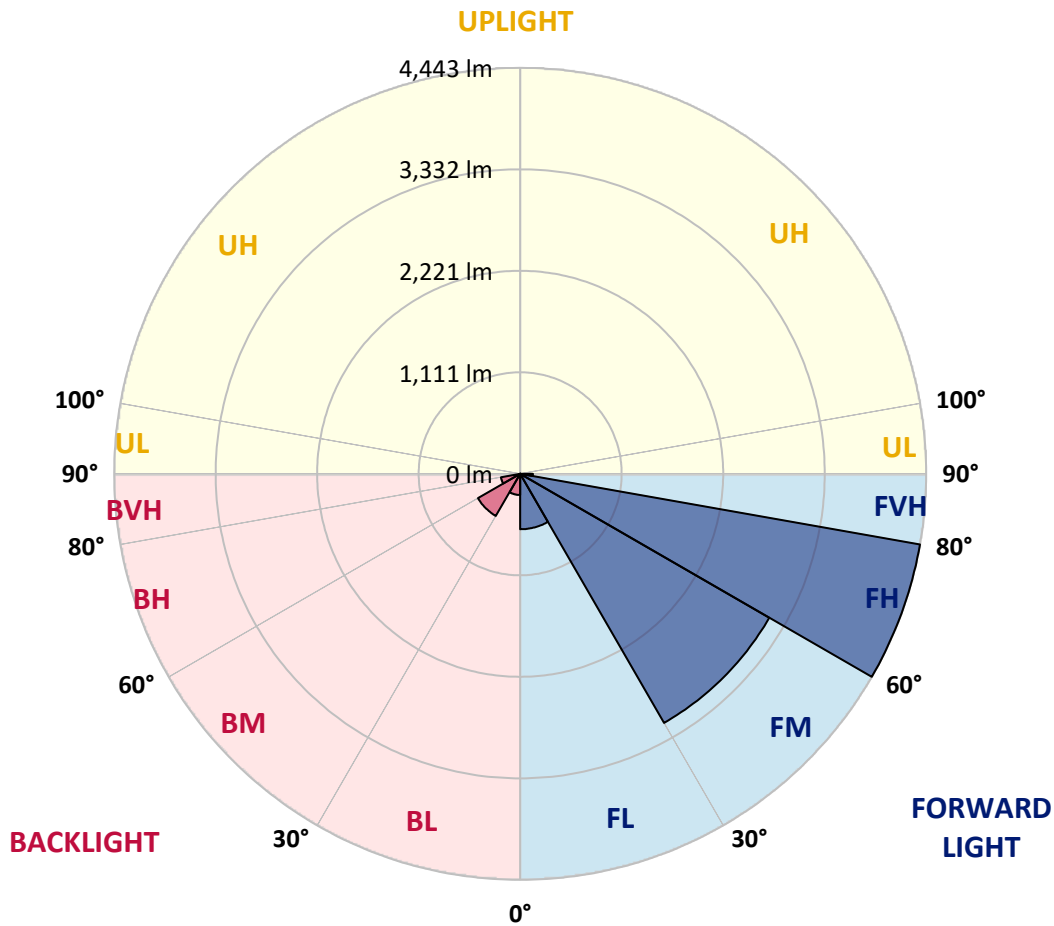
REPORT NUMBER: P947873  
 CATALOG NUMBER: GALN-SB3A-830-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.8	6.5			
FM (30°-60°)	3147.4	33.8			
FH (60°-80°)	4442.5	47.7			G2/5000
FVH (80°-90°)	140.3	1.5			G2/225
BL (0°-30°)	231.9	2.5	B1/500		
BM (30°-60°)	532.4	5.7	B1/1000		
BH (60°-80°)	213.5	2.3	B1/500		G1/500
BVH (80°-90°)	1.2	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-G2**

Type IV Short



REPORT NUMBER: P947873  
 CATALOG NUMBER: GALN-SB3A-830-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6
2.5°	1114.7	1116.6	1115.3	1107.7	1095.0	1088.0	1084.2	1071.5	1063.2	1048.6
5°	1217.1	1224.7	1220.3	1205.0	1180.8	1163.7	1158.6	1132.5	1109.0	1081.6
7.5°	1325.8	1329.6	1321.4	1301.6	1269.2	1240.0	1235.5	1199.3	1161.8	1119.8
10°	1419.9	1424.4	1411.7	1383.0	1346.2	1309.9	1303.6	1263.5	1219.0	1167.5
12.5°	1498.8	1503.2	1486.7	1452.4	1411.7	1374.1	1367.8	1325.8	1276.8	1219.6
15°	1558.5	1566.8	1544.6	1507.7	1463.8	1426.3	1423.1	1381.8	1334.1	1270.5
17.5°	1593.5	1601.8	1580.8	1536.3	1498.8	1467.0	1463.2	1428.8	1384.3	1323.3
20°	1599.2	1606.9	1584.6	1545.8	1514.7	1489.2	1487.3	1462.5	1430.1	1371.6
22.5°	1582.1	1591.6	1571.3	1540.1	1518.5	1505.1	1502.6	1488.6	1470.2	1420.6
25°	1564.3	1571.9	1556.6	1529.3	1517.8	1516.6	1518.5	1515.9	1512.1	1470.2
27.5°	1563.0	1571.3	1554.1	1528.0	1521.7	1535.0	1536.9	1549.0	1552.2	1515.3
30°	1573.8	1579.5	1563.0	1535.7	1532.5	1563.0	1563.6	1585.2	1590.3	1553.5
32.5°	1597.3	1603.7	1587.2	1547.1	1542.6	1585.2	1587.2	1615.8	1624.0	1594.2
35°	1652.7	1660.3	1641.2	1578.9	1563.0	1606.2	1612.0	1645.7	1662.2	1637.4
37.5°	1790.6	1768.4	1742.3	1643.1	1609.4	1639.3	1648.8	1688.3	1717.5	1688.9
40°	2133.4	2063.4	1982.0	1752.5	1690.8	1709.9	1717.5	1756.9	1797.0	1769.0
42.5°	2647.8	2565.1	2434.1	2004.3	1813.5	1823.1	1828.8	1863.1	1919.7	1897.5
45°	3106.3	3076.4	2942.9	2434.1	2043.1	1996.0	2003.0	2020.8	2104.1	2095.9
47.5°	3458.6	3441.4	3338.4	2927.6	2431.0	2207.8	2227.5	2235.8	2355.9	2385.2
50°	3729.4	3723.1	3630.9	3366.3	2937.8	2520.0	2527.0	2509.2	2689.1	2761.6
52.5°	3985.1	4006.7	3938.6	3773.9	3478.9	2928.9	2927.6	2843.7	3086.6	3195.9
55°	4215.9	4223.5	4230.5	4189.8	4023.2	3394.3	3382.2	3244.9	3547.6	3660.8
57.5°	4432.7	4435.9	4498.2	4581.5	4589.8	3894.1	3871.9	3707.2	4051.2	4131.9
60°	4578.3	4593.0	4724.6	4956.0	5057.2	4409.8	4397.7	4229.9	4563.7	4601.2
62.5°	4368.5	4457.5	4789.4	5248.6	5498.5	4981.5	4975.8	4818.1	5102.9	5072.4
65°	3536.1	3686.8	4270.6	5446.3	5931.5	5619.9	5628.2	5460.3	5656.8	5557.6
67.5°	2473.6	2632.5	3323.1	5462.2	6415.4	6369.6	6417.3	6154.0	6245.0	6022.4
70°	1710.5	1792.5	2242.1	5120.1	6792.5	7402.3	7401.0	7006.1	6830.0	6234.2
72.5°	1150.3	1192.9	1456.2	4062.0	6515.2	8015.9	7979.0	7657.3	7027.1	5830.4
75°	485.2	516.3	674.0	2282.8	5154.4	7333.6	7233.8	6767.0	6243.7	4591.1
77.5°	153.9	167.2	265.8	817.1	2839.2	5512.4	5406.9	4226.1	4184.7	2303.2
80°	73.1	85.2	149.4	328.1	1117.2	2998.2	2983.5	1917.2	1800.2	621.9
82.5°	31.8	37.5	82.7	175.5	499.8	1069.6	1091.2	652.4	539.9	235.9
85°	10.2	13.4	38.2	80.8	211.1	265.8	262.6	155.2	217.5	128.4
87.5°	0.0	0.0	12.7	18.4	21.6	15.3	17.2	13.4	60.4	35.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947873  
 CATALOG NUMBER: GALN-SB3A-830-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1020.6	0°	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6
1033.3	2.5°	1025.7	1015.5	997.7	981.2	966.5	951.9	943.0	930.3	929.0	929.0
1049.8	5°	1032.7	1016.1	984.3	950.6	911.9	875.0	838.1	802.5	791.0	782.8
1076.5	7.5°	1053.0	1026.9	976.7	912.5	838.7	758.0	701.4	640.3	616.8	604.1
1112.2	10°	1082.3	1046.7	970.4	857.8	738.3	628.2	547.5	481.4	455.9	445.1
1150.9	12.5°	1114.7	1070.8	958.9	789.8	628.2	496.6	417.8	387.3	383.4	383.4
1197.4	15°	1153.5	1100.1	939.2	709.6	513.2	393.0	365.0	366.3	370.1	372.6
1242.5	17.5°	1193.5	1131.2	908.0	620.0	411.4	353.5	354.2	356.1	359.3	361.8
1291.5	20°	1236.8	1162.4	866.7	524.6	352.9	342.1	344.0	345.9	348.5	349.7
1337.3	22.5°	1283.2	1191.6	817.7	431.1	333.2	332.6	333.2	335.1	338.3	338.3
1390.7	25°	1332.8	1224.1	761.8	363.1	323.0	323.0	324.3	325.6	328.1	328.1
1442.2	27.5°	1383.7	1254.0	702.6	327.5	314.1	313.5	313.5	315.4	316.7	317.3
1493.0	30°	1439.6	1288.9	643.5	319.8	307.1	304.0	302.0	303.3	304.6	305.2
1546.5	32.5°	1496.9	1322.6	590.7	323.0	300.1	294.4	288.1	286.8	286.8	289.3
1601.8	35°	1560.4	1359.5	550.0	333.8	296.3	280.4	270.2	264.5	265.2	269.0
1667.9	37.5°	1636.8	1404.0	520.1	343.4	293.8	264.5	248.0	241.0	236.5	241.0
1758.8	40°	1736.6	1469.5	498.5	351.0	290.6	246.1	223.8	212.4	204.1	206.7
1900.0	42.5°	1883.5	1572.5	490.3	351.6	283.6	224.5	199.0	183.8	171.7	172.3
2112.4	45°	2089.5	1735.3	532.9	343.4	268.3	200.9	173.0	152.6	145.0	143.1
2429.7	47.5°	2371.8	1972.5	631.4	326.2	246.1	178.0	147.5	130.4	124.6	121.5
2846.2	50°	2750.2	2277.1	740.8	307.1	223.8	156.4	126.5	115.7	111.9	108.7
3340.3	52.5°	3188.9	2586.1	830.5	288.1	201.6	137.4	113.2	106.8	103.6	101.1
3817.2	55°	3591.5	2799.1	825.4	267.7	180.0	122.1	103.6	99.8	96.0	93.5
4228.0	57.5°	3842.0	2829.0	680.4	245.4	155.2	110.0	94.7	92.2	87.8	84.6
4583.4	60°	3957.1	2658.6	476.9	216.2	130.4	98.6	85.2	83.9	78.2	73.8
4919.8	62.5°	3978.1	2341.9	317.9	180.0	108.7	87.8	75.7	73.8	66.1	58.5
5193.2	65°	3892.9	1889.2	220.0	140.5	92.8	76.3	64.9	61.0	52.8	45.1
5258.1	67.5°	3623.2	1326.4	153.2	101.1	78.8	60.4	51.5	50.2	43.9	37.5
4927.4	70°	3129.2	756.1	102.4	75.7	62.3	41.3	40.7	42.0	35.6	30.5
4025.8	72.5°	2399.2	345.9	63.6	55.3	42.6	28.0	32.4	33.1	27.3	22.9
2511.7	75°	1412.3	148.2	40.1	35.6	21.6	18.4	23.5	24.2	18.4	14.6
918.2	77.5°	480.7	56.0	25.4	21.0	10.8	10.2	15.3	15.3	10.2	5.7
184.4	80°	109.4	21.0	12.7	8.3	5.1	4.5	5.1	4.5	2.5	0.6
56.6	82.5°	31.2	8.3	5.1	3.2	1.9	1.9	0.6	0.0	0.0	0.0
19.7	85°	8.9	3.8	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
7.0	87.5°	3.8	0.6	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>
1020.6
932.2
786.6
606.0
445.1
383.4
372.6
361.8
350.4
339.6
328.8
317.9
306.5
291.2
270.9
239.7
205.4
169.8
140.5
119.5
108.1
100.5
92.2
83.9
72.5
54.7
42.6
35.6
28.0
20.3
12.7
4.5
0.0
0.0
0.0
0.0
0.0

F REPORT)