

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: P947155

Luminaire Tested: **GALN-SB2C-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947155  
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-SB2C-830-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

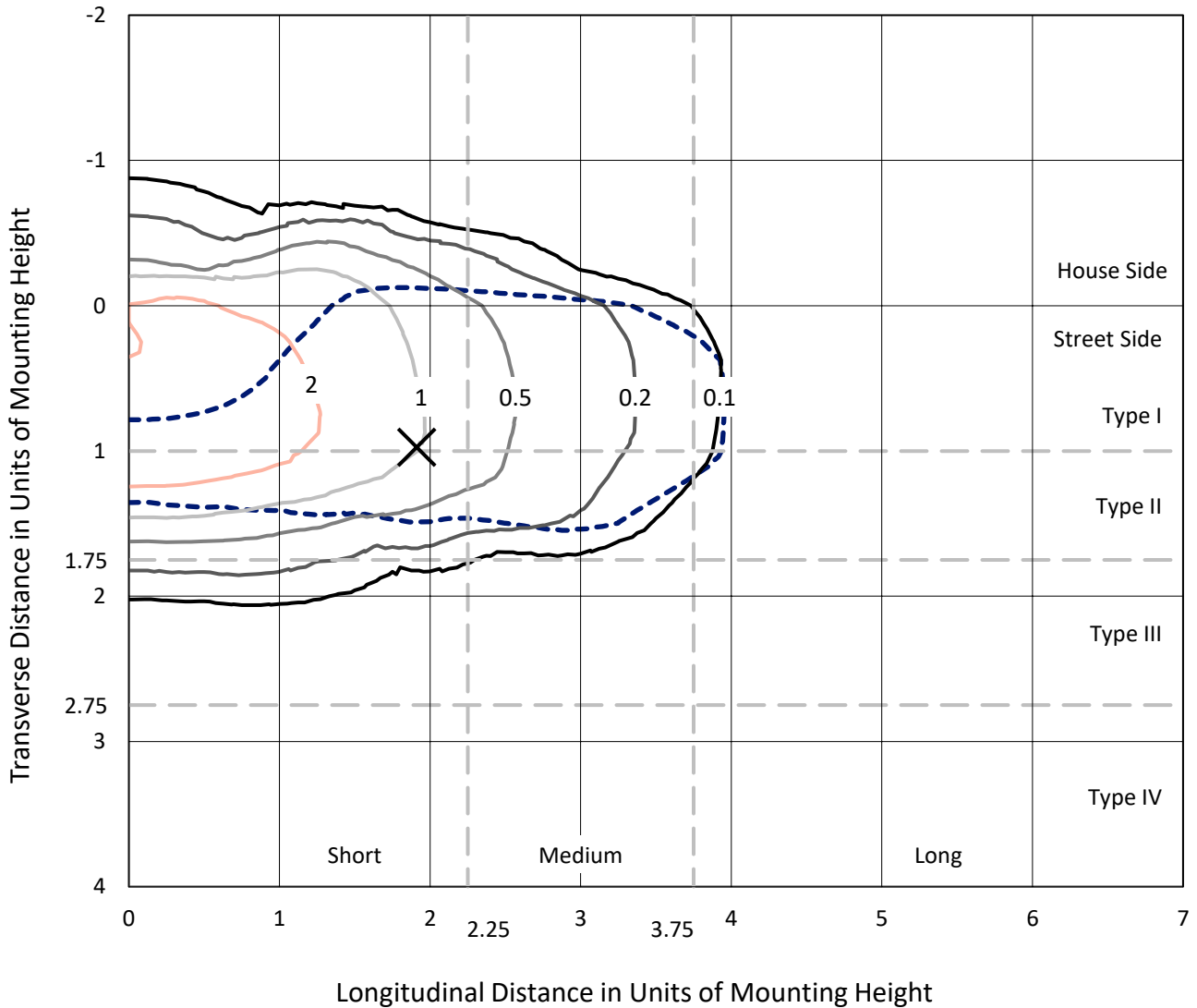
Lumens per Lamp: N/A  
Luminaire Lumens: 10285 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P947155  
 CATALOG NUMBER: GALN-SB2C-830-U-T2U-HSS

### Iso-Footcandle Lines of Horizontal Illumination

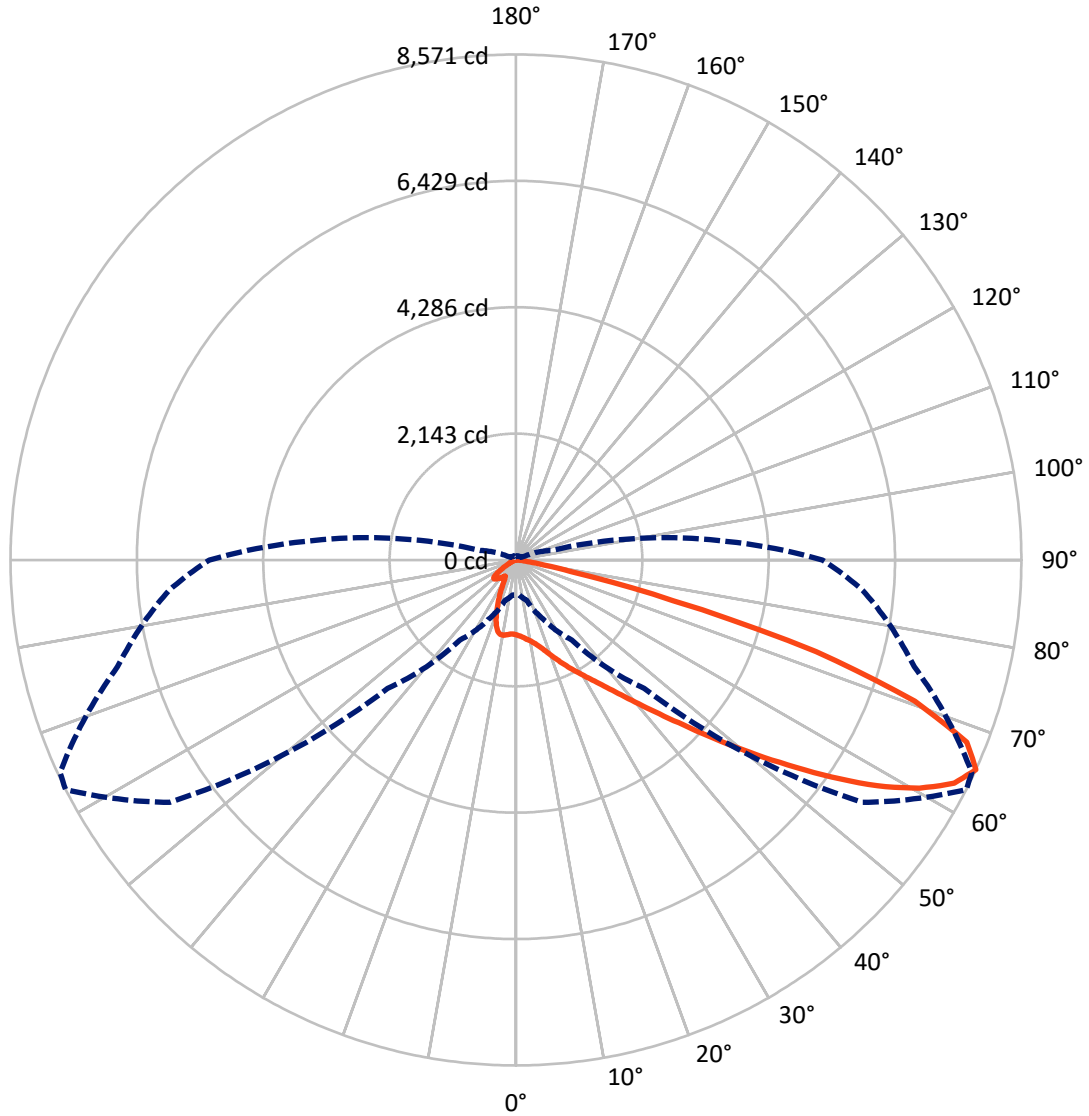
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P947155  
CATALOG NUMBER: GALN-SB2C-830-U-T2U-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P947155  
 CATALOG NUMBER: GALN-SB2C-830-U-T2U-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1511.8	0.0	1511.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	8773.2	0.0	8773.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	10285.0	0.0	10285.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.6	1.2
10°-20°	331.8	3.2
20°-30°	577.8	5.6
30°-40°	1041.5	10.1
40°-50°	2065.5	20.1
50°-60°	2813.6	27.4
60°-70°	2245.8	21.8
70°-80°	1016.3	9.9
80°-90°	73.0	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°	10285.0	100.0
0°-180°	10285.0	100.0



REPORT NUMBER: P947155

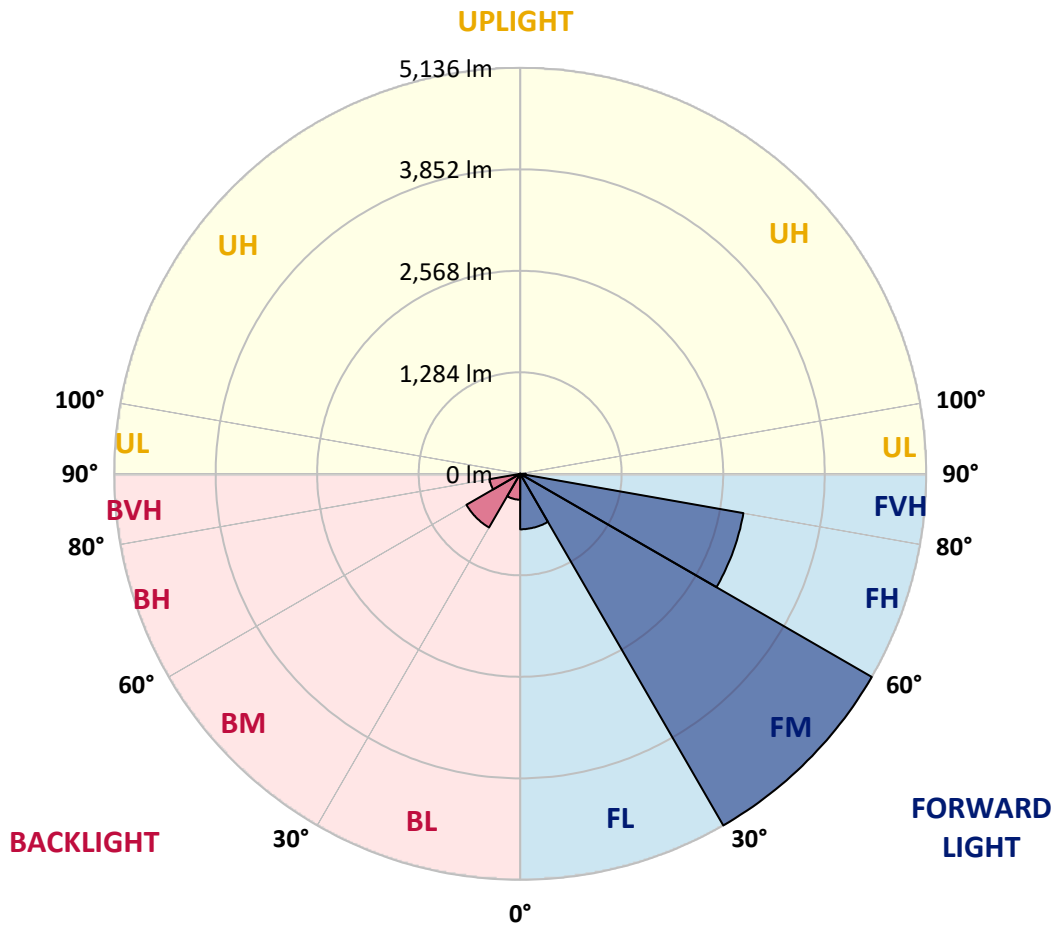
CATALOG NUMBER: GALN-SB2C-830-U-T2U-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	702.1	6.8			
FM (30°-60°)	5136.1	49.9			
FH (60°-80°)	2867.4	27.9			G2/5000
FVH (80°-90°)	67.6	0.7			G1/100
BL (0°-30°)	327.2	3.2	B1/500		
BM (30°-60°)	784.5	7.6	B1/1000		
BH (60°-80°)	394.7	3.8	B1/500		G1/500
BVH (80°-90°)	5.4	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-G2**

Type II Short



REPORT NUMBER: P947155

CATALOG NUMBER: GALN-SB2C-830-U-T2U-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1299.1	1295.5	1300.5	1298.4	1297.0	1294.1	1292.7	1291.3	1288.5	1286.3
5°	1302.6	1300.5	1305.4	1309.7	1313.9	1318.2	1320.3	1323.1	1320.3	1314.6
7.5°	1272.9	1271.5	1282.1	1294.8	1313.9	1330.2	1347.9	1357.8	1358.5	1356.4
10°	1270.8	1267.2	1277.9	1293.4	1318.2	1347.2	1378.3	1399.6	1402.4	1411.6
12.5°	1304.0	1300.5	1315.4	1332.3	1357.8	1388.2	1426.4	1456.2	1460.4	1473.1
15°	1359.9	1355.0	1372.0	1393.9	1426.4	1461.1	1501.4	1528.3	1531.9	1547.4
17.5°	1425.0	1420.1	1439.9	1463.2	1498.6	1546.0	1592.7	1622.4	1626.7	1636.6
20°	1508.5	1502.2	1517.7	1538.9	1576.4	1633.0	1688.9	1731.4	1730.7	1730.7
22.5°	1605.5	1595.5	1609.0	1626.0	1661.4	1730.0	1804.3	1854.5	1854.5	1834.7
25°	1709.5	1699.6	1714.4	1730.0	1761.1	1838.9	1926.0	1988.2	1991.1	1957.1
27.5°	1839.7	1826.9	1838.2	1856.6	1875.0	1954.3	2057.6	2129.8	2131.2	2078.8
30°	2090.1	2054.0	2018.7	1998.9	2007.3	2085.9	2196.3	2276.2	2283.3	2211.1
32.5°	2548.6	2541.6	2417.0	2254.3	2169.4	2227.4	2351.2	2447.5	2451.7	2359.0
35°	3261.1	3252.7	3052.4	2742.5	2465.8	2417.0	2539.4	2653.4	2650.5	2545.8
37.5°	4111.6	4103.9	3839.9	3425.3	2977.4	2703.6	2782.1	2901.7	2919.4	2782.1
40°	4838.3	4809.3	4642.3	4242.5	3656.7	3179.1	3127.4	3206.7	3225.1	3062.3
42.5°	5388.8	5364.0	5279.1	5029.3	4478.9	3882.4	3534.3	3564.7	3585.2	3389.9
45°	5673.9	5668.3	5702.2	5678.9	5316.6	4745.6	4115.9	3989.2	3997.0	3752.9
47.5°	5714.3	5711.4	5866.4	6085.7	6036.9	5719.2	4862.4	4518.5	4490.9	4162.6
50°	5476.5	5470.9	5768.0	6179.1	6518.0	6537.2	5710.0	5115.0	5054.1	4586.4
52.5°	4717.3	4715.9	5204.1	5888.3	6687.2	7253.2	6547.8	5770.2	5668.3	5035.0
55°	3629.8	3656.0	4215.6	5024.4	6378.7	7597.8	7299.9	6497.5	6341.2	5486.4
57.5°	2571.3	2609.5	3162.8	3883.1	5422.0	7394.0	7808.6	7226.3	7057.9	5936.4
60°	1381.2	1415.1	1969.1	2828.8	4033.8	6634.1	8076.8	7858.9	7699.7	6363.8
62.5°	822.9	834.2	1063.5	1826.2	2728.4	5068.3	7962.9	8340.7	8209.8	6722.5
65°	590.8	592.9	708.3	1115.1	1656.4	3079.3	7164.0	8571.4	8531.1	6992.8
67.5°	497.4	496.0	544.1	740.8	1128.6	1542.5	5490.7	8245.2	8416.4	7164.0
70°	426.7	428.8	485.4	542.7	848.4	873.1	2729.8	7178.9	7544.0	7209.3
72.5°	317.7	324.8	377.1	494.6	640.3	600.7	942.5	5323.0	5983.1	6792.6
75°	224.3	227.8	265.3	416.0	477.6	437.3	481.1	2751.7	3597.9	5207.6
77.5°	172.6	179.0	200.9	290.8	470.5	307.1	294.3	952.4	1463.2	3145.8
80°	93.4	104.7	145.0	210.1	330.4	217.2	145.8	379.3	496.0	1471.0
82.5°	48.1	53.8	101.2	151.4	188.2	189.6	72.2	157.8	204.5	454.3
85°	19.1	23.3	67.9	83.5	96.9	93.4	32.5	63.7	73.6	125.9
87.5°	4.2	7.1	24.8	19.1	18.4	19.8	7.8	14.9	14.2	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947155  
 CATALOG NUMBER: GALN-SB2C-830-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1269.4	0°	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4
1277.9	2.5°	1277.1	1274.3	1266.5	1258.0	1248.1	1242.5	1238.9	1238.2	1233.3	1229.7
1306.2	5°	1298.4	1295.5	1280.7	1263.0	1243.9	1229.0	1214.9	1202.1	1183.7	1180.2
1347.2	7.5°	1340.8	1333.0	1309.0	1284.9	1248.8	1205.7	1153.3	1093.2	1039.4	1023.1
1401.7	10°	1393.2	1382.6	1352.1	1309.7	1229.7	1112.3	985.6	868.2	774.8	748.6
1466.1	12.5°	1452.6	1443.4	1403.1	1324.6	1149.8	936.8	742.9	597.2	506.6	484.0
1534.7	15°	1523.4	1509.9	1454.0	1301.9	1006.9	711.8	510.2	423.8	391.3	387.0
1613.2	17.5°	1598.4	1576.4	1499.3	1220.5	814.4	505.9	394.1	369.3	355.2	350.9
1692.5	20°	1667.0	1638.7	1526.2	1097.4	608.5	394.1	353.1	336.8	324.1	319.1
1771.7	22.5°	1735.6	1695.3	1526.2	929.7	456.4	349.5	324.1	309.2	294.3	288.0
1856.6	25°	1807.1	1753.3	1499.3	742.9	367.2	320.5	296.5	280.2	267.5	259.7
1937.3	27.5°	1876.5	1802.2	1437.8	566.0	326.9	295.1	271.0	255.4	243.4	237.7
2025.0	30°	1942.3	1850.3	1351.4	429.5	300.7	270.3	247.6	234.2	222.2	216.5
2139.0	32.5°	2031.4	1911.1	1259.5	352.4	278.1	246.9	226.4	213.7	203.1	198.8
2286.8	35°	2155.2	2001.0	1180.2	346.0	259.0	227.8	207.3	195.3	184.7	181.1
2477.9	37.5°	2330.7	2146.0	1138.5	388.5	243.4	210.9	191.7	179.0	169.1	166.3
2720.6	40°	2547.2	2342.7	1161.1	430.9	232.8	196.0	177.6	164.9	156.4	152.8
2999.3	42.5°	2804.1	2585.4	1286.3	463.5	225.7	183.3	164.2	150.0	144.3	142.9
3315.6	45°	3099.1	2852.2	1478.1	498.1	214.4	171.2	150.7	140.1	135.9	135.1
3659.5	47.5°	3434.5	3145.1	1700.3	541.3	203.1	159.9	140.1	133.0	129.5	128.1
4018.2	50°	3767.1	3440.2	1928.8	565.3	193.9	149.3	131.6	125.9	123.1	122.4
4397.5	52.5°	4115.2	3743.7	2113.5	542.7	186.1	140.8	124.5	120.3	117.5	116.7
4747.0	55°	4447.0	3989.2	2145.3	460.6	170.5	132.3	116.7	114.6	111.1	111.1
5101.5	57.5°	4732.9	4112.3	1920.3	338.2	155.0	119.6	109.0	106.8	104.0	103.3
5421.3	60°	4995.4	4077.0	1482.3	227.8	138.0	106.8	99.1	97.6	94.8	91.3
5699.4	62.5°	5143.3	3921.3	1013.9	148.6	121.0	93.4	87.7	87.0	80.7	73.6
5905.3	65°	5199.2	3601.5	632.6	108.3	101.2	80.0	75.7	74.3	65.1	57.3
6022.0	67.5°	5150.3	3075.1	319.1	85.6	80.0	66.5	62.3	62.3	55.9	48.8
6015.0	70°	4955.0	2305.2	134.4	68.6	61.6	50.9	50.9	53.8	47.4	39.6
5702.9	72.5°	4531.2	1551.0	71.5	52.4	46.0	36.1	41.7	43.9	37.5	29.7
4667.8	75°	3602.2	946.0	49.5	38.9	29.0	25.5	31.8	33.3	25.5	19.8
3200.3	77.5°	2463.7	543.4	33.3	24.8	18.4	14.9	21.9	20.5	13.4	9.2
1234.0	80°	1081.9	226.4	19.1	11.3	7.1	5.7	7.8	5.7	4.2	2.8
169.1	82.5°	126.7	53.1	7.1	4.2	2.8	1.4	0.7	0.0	0.0	0.0
51.7	85°	26.2	6.4	3.5	1.4	0.7	0.0	0.0	0.0	0.0	0.0
9.2	87.5°	5.0	1.4	0.7	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>
1269.4
1233.3
1178.8
1015.3
738.7
477.6
382.8
348.8
316.3
284.4
256.8
237.7
217.2
198.8
181.1
165.6
152.1
142.9
134.4
128.1
122.4
116.7
110.4
102.6
90.6
72.2
56.6
48.1
38.9
29.7
19.1
9.9
2.8
0.0
0.0
0.0
0.0

F REPORT)