

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: P939336

Luminaire Tested: **GALN-SB1D-850-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939336  
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-SB1D-850-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

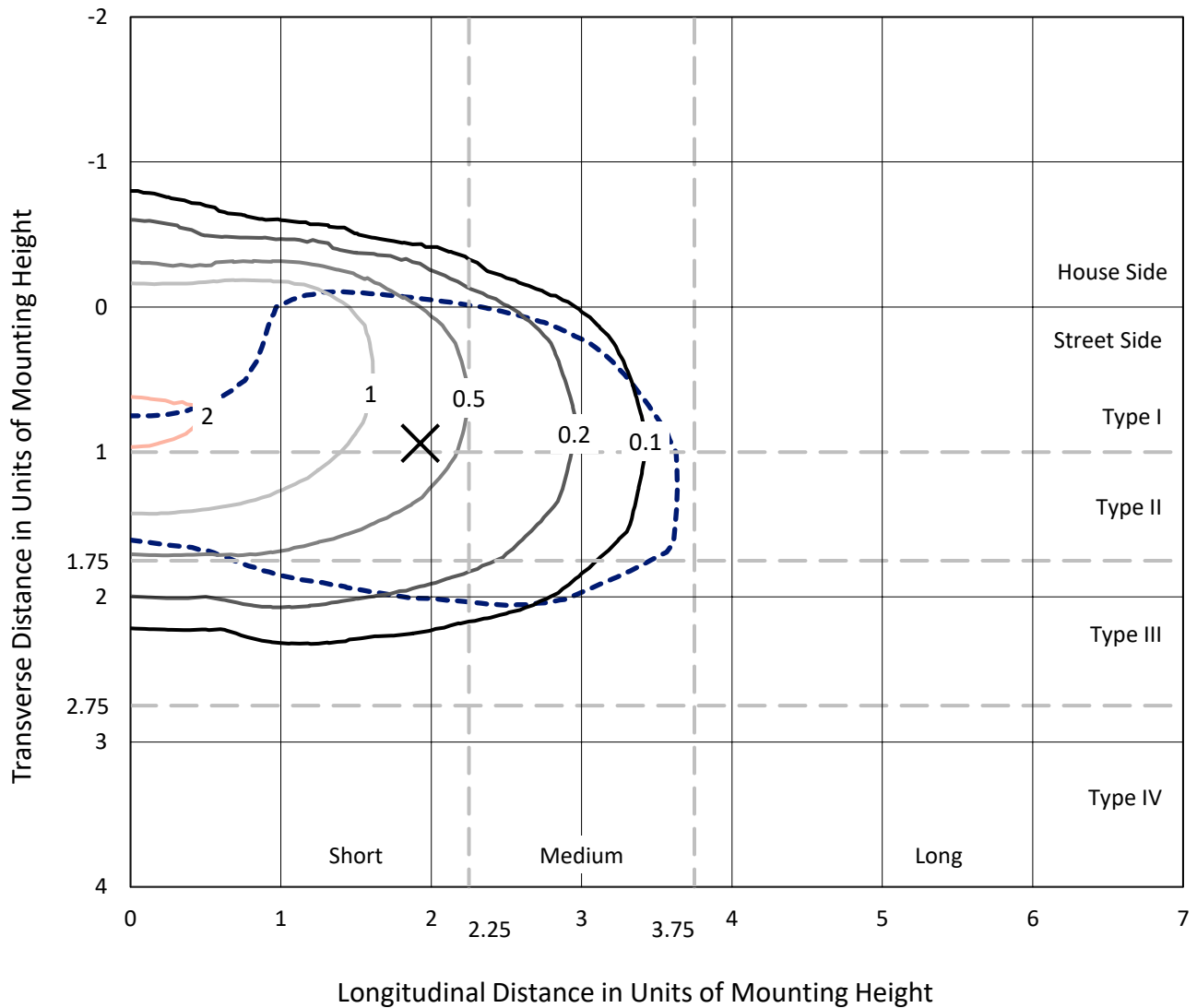
Lumens per Lamp: N/A  
Luminaire Lumens: 7636 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P939336  
 CATALOG NUMBER: GALN-SB1D-850-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

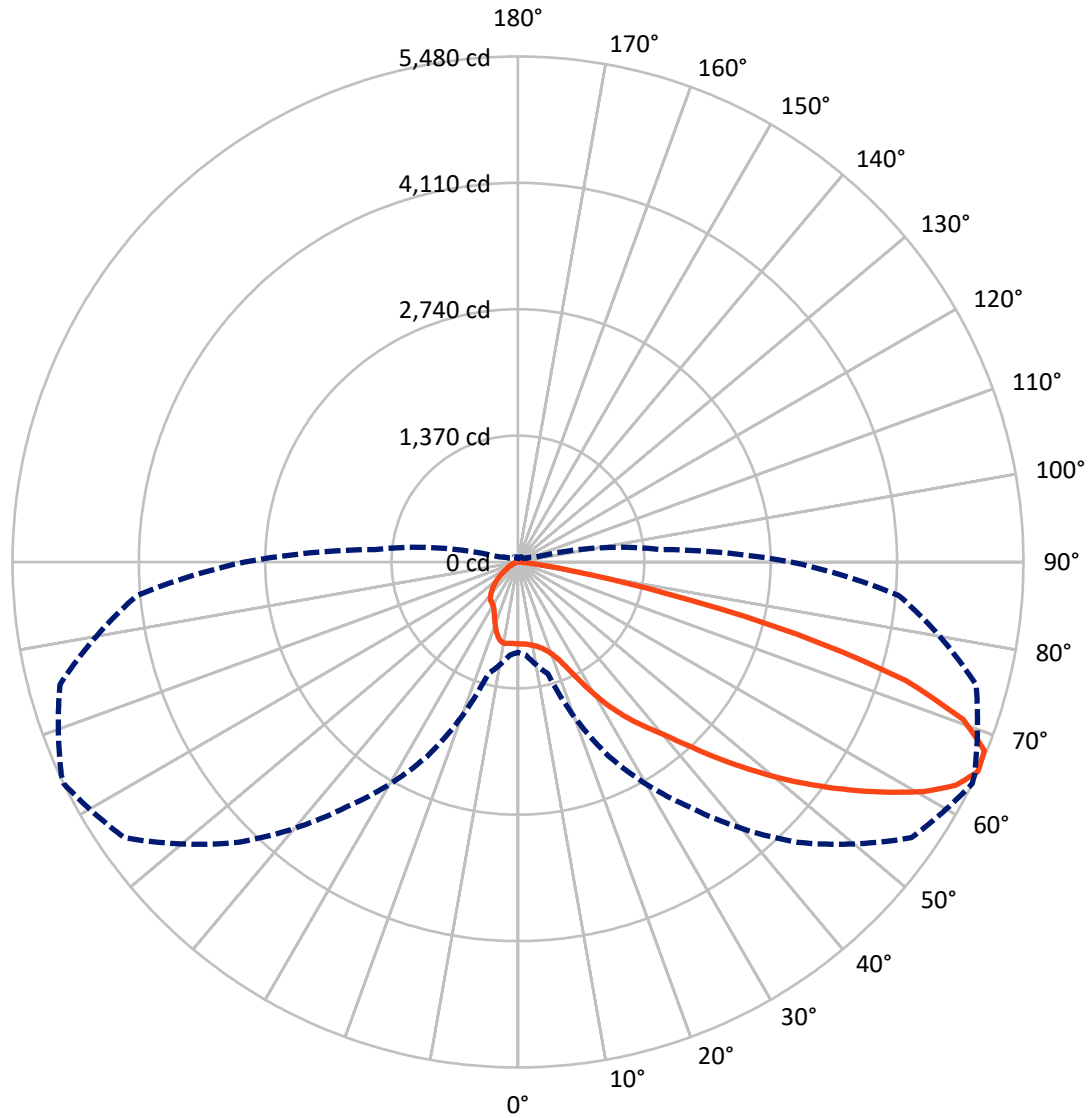
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P939336  
CATALOG NUMBER: GALN-SB1D-850-U-T3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P939336  
 CATALOG NUMBER: GALN-SB1D-850-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1021.2	0.0	1021.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	6614.8	0.0	6614.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	7636.0	0.0	7636.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.9	1.1
10°-20°	222.2	2.9
20°-30°	421.1	5.5
30°-40°	852.2	11.2
40°-50°	1451.7	19.0
50°-60°	1974.2	25.9
60°-70°	1853.9	24.3
70°-80°	742.7	9.7
80°-90°	36.0	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°	7636.0	100.0
0°-180°	7636.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939336

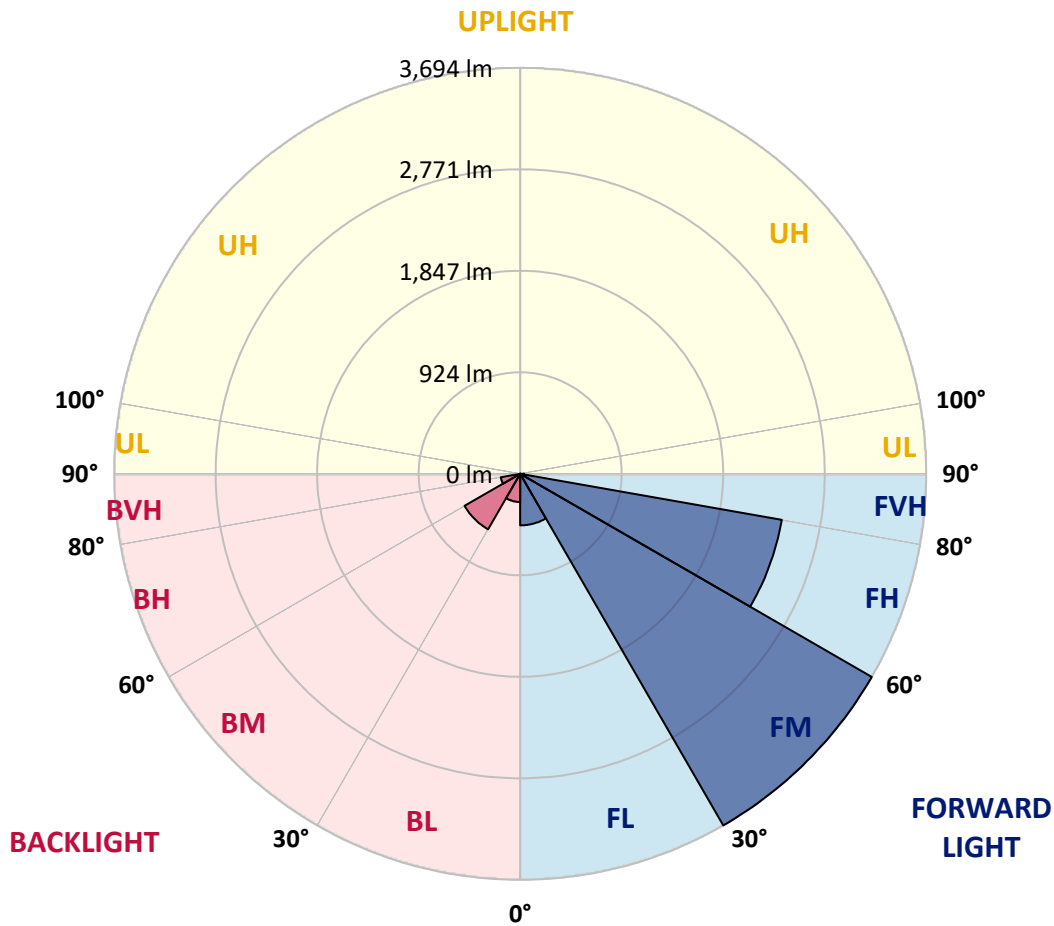
CATALOG NUMBER: GALN-SB1D-850-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	468.9	6.1			
FM (30°-60°)	3694.3	48.4			
FH (60°-80°)	2417.4	31.7			G2/5000
FVH (80°-90°)	34.2	0.4			G1/100
BL (0°-30°)	256.4	3.4	B1/500		
BM (30°-60°)	583.8	7.6	B1/1000		
BH (60°-80°)	179.2	2.3	B1/500		G1/500
BVH (80°-90°)	1.8	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-G2**

Type III Short



REPORT NUMBER: P939336

CATALOG NUMBER: GALN-SB1D-850-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1
2.5°	885.1	891.2	889.7	888.1	887.6	888.7	889.2	888.7	888.7	888.7
5°	868.2	873.3	873.3	876.9	882.0	888.1	892.8	893.8	894.8	896.3
7.5°	835.9	840.0	843.1	854.9	867.7	884.1	897.9	905.0	906.1	911.7
10°	813.9	819.0	824.2	836.4	854.9	879.4	903.0	920.4	923.0	936.3
12.5°	812.9	818.0	824.7	838.0	859.5	885.6	914.3	939.3	943.9	963.4
15°	823.6	829.8	835.9	852.3	875.3	907.1	937.8	969.0	973.6	1001.3
17.5°	845.7	853.8	858.5	874.8	899.4	934.7	975.2	1011.0	1015.1	1047.3
20°	889.2	898.9	900.4	913.7	937.8	975.7	1023.8	1068.3	1073.5	1110.3
22.5°	979.3	993.1	980.8	987.5	1009.0	1046.8	1099.0	1155.4	1162.5	1204.5
25°	1138.0	1157.4	1125.7	1114.4	1123.6	1163.0	1228.6	1299.7	1307.9	1341.7
27.5°	1449.7	1424.6	1376.5	1329.4	1301.8	1324.3	1398.0	1486.0	1496.3	1529.0
30°	1792.2	1770.1	1705.1	1600.7	1535.2	1531.6	1599.7	1698.0	1709.7	1741.0
32.5°	2135.1	2114.1	2043.5	1915.0	1801.4	1745.1	1792.2	1901.2	1907.3	1927.3
35°	2472.5	2451.0	2380.3	2248.8	2109.0	1981.1	1971.8	2094.7	2096.7	2117.7
37.5°	2811.9	2793.9	2718.7	2589.7	2452.0	2275.4	2189.9	2278.0	2280.5	2301.0
40°	3054.0	3061.7	3010.0	2910.2	2791.9	2598.9	2434.6	2473.0	2457.6	2491.9
42.5°	3261.8	3277.2	3232.1	3182.0	3113.4	2943.4	2737.6	2731.0	2706.4	2724.8
45°	3441.5	3454.3	3413.9	3402.1	3400.6	3281.3	3068.8	3028.9	2994.6	2991.0
47.5°	3507.5	3532.1	3549.5	3588.9	3665.7	3615.5	3411.3	3349.4	3311.0	3282.8
50°	3532.6	3558.7	3618.1	3732.8	3914.5	3936.0	3752.2	3682.6	3635.5	3584.3
52.5°	3498.8	3545.4	3625.3	3818.3	4081.9	4193.0	4079.3	4018.4	3964.7	3881.2
55°	3299.7	3346.3	3509.6	3817.2	4165.3	4373.2	4388.5	4361.4	4301.0	4169.4
57.5°	2879.9	2949.1	3207.6	3687.2	4163.8	4528.3	4691.6	4711.0	4643.4	4455.1
60°	2298.4	2392.1	2707.4	3399.0	4035.3	4612.2	4957.2	5054.5	4982.8	4736.6
62.5°	1603.8	1712.3	2010.7	2947.5	3741.5	4551.8	5151.2	5330.9	5276.7	4988.5
65°	978.2	1013.0	1253.6	2319.4	3241.9	4298.9	5211.1	5480.4	5462.5	5142.5
67.5°	651.6	680.8	749.9	1590.5	2516.5	3793.7	5067.8	5454.3	5459.4	5117.5
70°	392.6	417.7	462.8	925.0	1630.9	3002.8	4624.0	5121.6	5151.2	4782.2
72.5°	161.8	178.7	219.6	419.2	844.6	1905.8	3682.1	4397.2	4466.3	4021.0
75°	91.6	100.3	129.0	210.4	366.5	888.1	2230.3	3121.6	3223.4	2771.4
77.5°	60.9	65.0	83.4	136.2	206.3	303.0	953.2	1626.3	1820.8	1513.7
80°	41.0	44.5	57.3	91.1	134.1	130.0	303.6	602.5	741.2	520.1
82.5°	27.6	28.2	41.0	59.9	85.0	63.0	89.6	187.4	235.5	150.5
85°	15.9	15.4	30.2	34.8	37.9	26.1	27.1	56.3	73.7	63.5
87.5°	2.0	3.1	11.8	9.2	5.1	5.6	5.6	9.7	14.3	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939336  
 CATALOG NUMBER: GALN-SB1D-850-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
888.1	0°	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1
889.2	2.5°	889.2	888.7	887.1	885.6	882.0	880.0	881.0	880.0	879.4	880.0
895.8	5°	895.8	894.3	890.2	885.1	877.9	869.2	863.6	855.4	847.7	843.1
913.7	7.5°	913.7	912.2	906.6	892.2	869.2	832.9	799.6	770.4	748.4	735.6
942.4	10°	942.4	939.8	931.1	899.4	839.0	759.7	693.6	638.9	603.0	586.1
976.2	12.5°	976.2	973.1	957.8	892.8	781.7	657.8	566.7	505.8	472.5	457.6
1015.1	15°	1016.1	1012.0	981.8	861.0	698.2	545.2	461.7	416.2	394.7	381.4
1064.8	17.5°	1065.8	1058.6	999.7	813.4	607.6	459.2	397.2	362.9	344.0	331.2
1129.8	20°	1130.3	1118.5	1014.1	756.6	524.2	404.9	353.7	325.1	310.7	299.5
1221.9	22.5°	1220.4	1203.5	1031.5	695.2	465.3	367.5	321.5	300.5	288.7	275.9
1350.4	25°	1332.0	1312.0	1053.0	638.3	424.9	335.3	297.9	280.5	266.7	251.9
1518.8	27.5°	1488.1	1452.3	1078.6	591.8	390.1	307.7	276.4	257.0	241.1	228.8
1709.7	30°	1662.1	1603.3	1101.1	563.6	358.3	282.1	248.3	228.8	214.0	205.3
1881.2	32.5°	1827.0	1747.1	1115.9	551.3	329.7	252.9	217.6	196.6	185.3	182.7
2049.1	35°	1982.6	1877.1	1114.4	539.5	304.1	223.7	187.4	165.9	157.2	158.7
2229.8	37.5°	2161.8	2015.9	1103.7	521.1	283.1	197.1	161.2	142.3	134.6	135.1
2449.4	40°	2370.1	2176.1	1097.0	486.3	260.0	172.5	139.7	124.4	118.8	116.7
2680.8	42.5°	2592.3	2331.2	1098.0	446.9	231.4	150.5	124.9	112.1	107.0	105.5
2938.3	45°	2815.4	2479.1	1099.6	405.9	201.2	133.6	114.2	103.4	100.3	98.3
3199.4	47.5°	3025.3	2605.1	1070.9	361.9	171.5	120.8	105.5	98.3	95.7	93.2
3461.5	50°	3220.9	2689.0	1001.8	310.7	147.9	110.6	98.8	93.7	91.1	88.6
3699.0	52.5°	3372.9	2702.3	887.6	258.0	131.6	102.9	94.7	90.1	87.0	84.5
3891.0	55°	3440.5	2618.9	725.4	208.9	118.8	96.2	90.6	86.0	82.4	79.9
4042.0	57.5°	3423.1	2443.3	565.6	167.9	106.5	89.6	85.5	82.4	78.3	74.2
4164.3	60°	3337.6	2208.3	426.4	139.7	95.2	82.4	79.9	77.3	71.7	65.5
4211.4	62.5°	3189.6	1913.0	304.1	115.7	82.9	74.2	73.2	71.2	63.0	51.7
4141.8	65°	2963.4	1554.1	204.8	96.2	71.2	65.0	65.5	61.9	51.2	38.4
3886.9	67.5°	2632.7	1136.4	131.0	78.8	59.4	54.3	54.8	52.7	43.5	32.8
3403.6	70°	2211.4	752.5	85.5	59.9	47.6	42.0	45.0	45.6	36.9	26.6
2612.2	72.5°	1621.2	444.3	59.9	44.5	34.8	29.2	36.9	37.9	29.7	20.0
1571.5	75°	924.0	210.9	45.0	32.2	21.5	20.5	28.7	28.7	20.5	13.3
680.3	77.5°	388.0	88.0	31.7	21.0	12.3	11.8	19.5	17.9	10.2	6.1
165.9	80°	112.1	39.4	16.9	10.2	5.1	4.6	7.7	5.6	2.6	1.0
63.0	82.5°	44.0	17.4	6.7	4.1	2.0	2.0	1.0	0.0	0.0	0.0
35.8	85°	26.1	7.2	3.1	1.5	0.5	0.0	0.0	0.0	0.0	0.0
7.7	87.5°	6.7	1.5	1.0	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>
888.1
882.0
844.1
736.1
584.6
456.1
381.9
330.2
297.4
273.9
250.3
226.3
203.7
184.3
158.7
137.2
116.2
104.9
98.3
93.2
88.6
84.0
79.3
73.7
64.5
50.7
37.4
31.2
25.6
18.9
12.3
6.1
1.0
0.0
0.0
0.0
0.0

F REPORT)