

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: P938969

Luminaire Tested: **GALN-SB1B-830-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938969  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-830-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

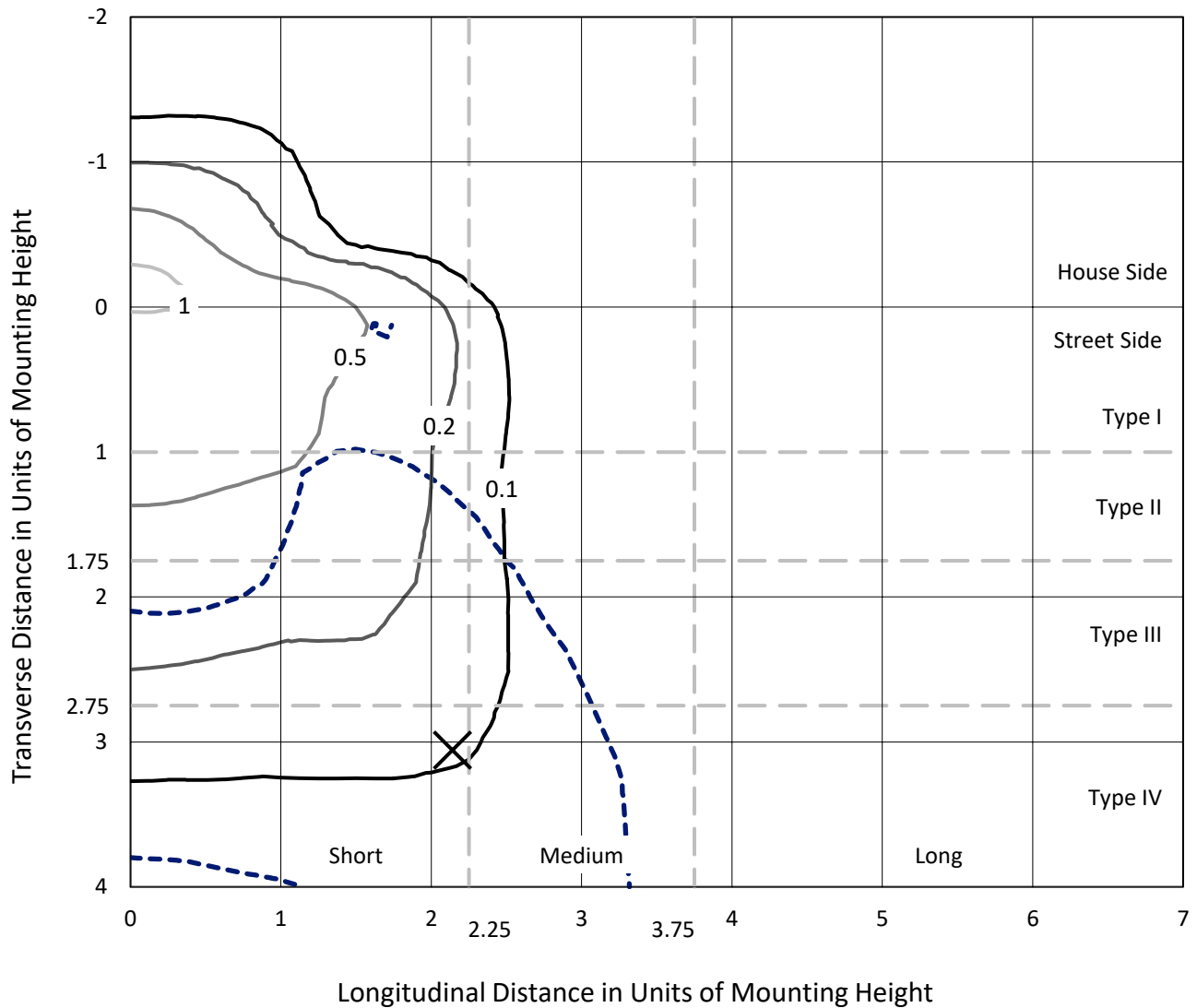
Lumens per Lamp: N/A  
Luminaire Lumens: 5003 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P938969  
 CATALOG NUMBER: GALN-SB1B-830-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

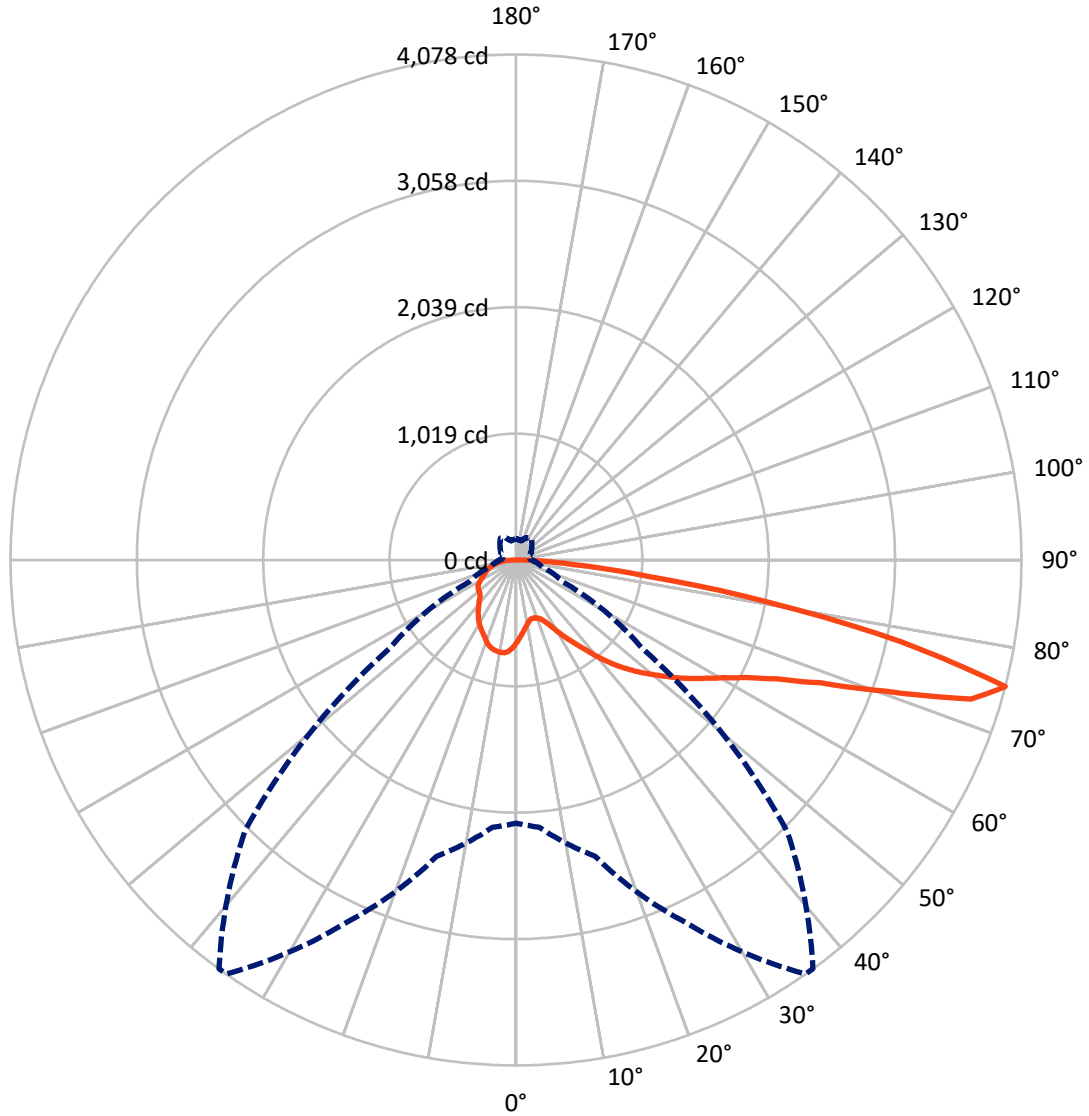
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P938969  
CATALOG NUMBER: GALN-SB1B-830-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P938969  
 CATALOG NUMBER: GALN-SB1B-830-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1190.6	0.0	1190.6
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	3812.4	0.0	3812.4
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	5003.0	0.0	5003.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.1	1.3
10°-20°	182.1	3.6
20°-30°	305.7	6.1
30°-40°	475.2	9.5
40°-50°	705.3	14.1
50°-60°	973.7	19.5
60°-70°	1181.3	23.6
70°-80°	976.3	19.5
80°-90°	140.4	2.8
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°	5003.0	100.0
0°-180°	5003.0	100.0

**Coefficient of Utilization**



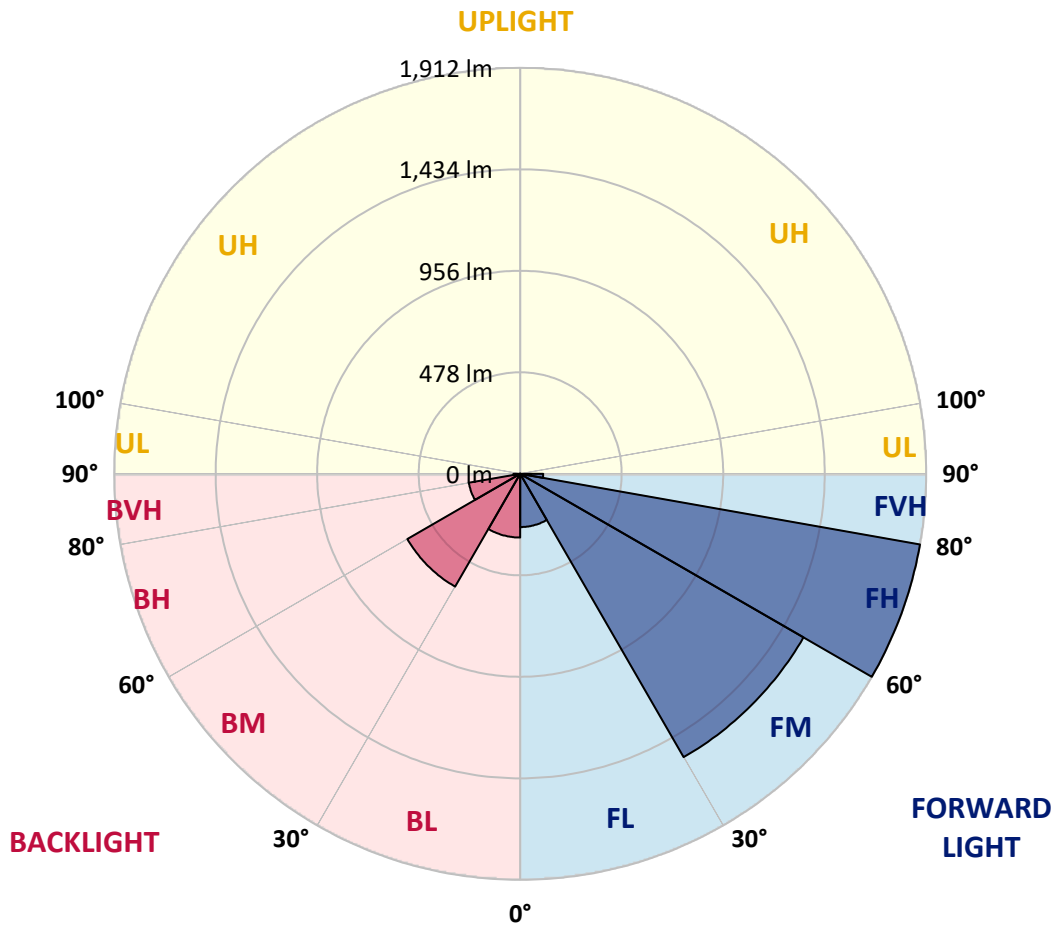
REPORT NUMBER: P938969  
 CATALOG NUMBER: GALN-SB1B-830-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	250.9	5.0			
FM (30°-60°)	1540.7	30.8			
FH (60°-80°)	1912.1	38.2			G2/5000
FVH (80°-90°)	108.8	2.2			G2/225
BL (0°-30°)	300.0	6.0	B1/500		
BM (30°-60°)	613.5	12.3	B1/1000		
BH (60°-80°)	245.5	4.9	B1/500		G1/500
BVH (80°-90°)	31.6	0.6			G1/100
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: P938969  
 CATALOG NUMBER: GALN-SB1B-830-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7
2.5°	614.8	618.5	620.2	619.4	623.4	622.9	628.5	635.6	645.3	654.8
5°	567.4	571.5	575.0	578.2	586.1	588.5	597.4	611.0	628.8	646.9
7.5°	523.3	526.9	532.3	538.2	551.5	553.9	568.8	589.9	614.8	641.3
10°	487.4	490.9	496.6	503.3	519.8	522.8	541.7	569.9	602.3	635.9
12.5°	472.0	473.0	476.3	483.0	497.4	499.3	520.1	552.3	590.1	631.8
15°	471.1	473.3	473.6	477.1	489.0	489.8	509.0	540.9	582.6	631.0
17.5°	479.3	480.9	478.4	480.6	490.6	492.0	507.1	535.5	580.1	634.5
20°	500.9	502.2	494.9	492.0	499.3	500.4	515.2	539.0	582.6	641.8
22.5°	546.9	547.7	529.8	517.7	518.2	518.7	531.7	553.4	592.0	655.1
25°	618.5	618.0	589.6	566.1	552.5	549.6	558.2	576.6	608.0	672.6
27.5°	702.4	698.3	669.9	634.8	605.3	601.0	599.1	606.9	630.7	695.9
30°	797.0	793.3	762.7	716.7	675.9	668.8	651.0	646.9	664.5	727.5
32.5°	900.9	898.5	862.0	806.2	751.6	743.5	713.5	702.7	716.4	775.4
35°	988.0	985.8	955.5	898.2	831.4	821.4	790.8	778.7	785.7	836.8
37.5°	1066.7	1065.6	1039.6	994.5	925.5	913.3	879.0	874.9	873.6	917.7
40°	1139.7	1137.0	1110.0	1086.2	1035.0	1024.0	993.7	990.2	979.9	1017.2
42.5°	1220.6	1213.6	1174.3	1163.2	1149.5	1140.3	1122.1	1122.7	1100.0	1129.4
45°	1286.6	1282.5	1242.2	1235.7	1250.6	1246.8	1262.5	1266.6	1222.5	1247.1
47.5°	1357.4	1353.7	1319.6	1315.0	1355.3	1356.4	1411.8	1413.2	1342.0	1369.3
50°	1444.8	1439.4	1405.6	1411.3	1456.4	1460.5	1561.9	1552.7	1452.1	1493.5
52.5°	1502.4	1505.7	1498.3	1507.5	1569.2	1573.0	1709.6	1686.0	1561.1	1616.0
55°	1544.9	1551.4	1574.1	1595.2	1688.2	1692.0	1848.9	1812.9	1651.4	1729.6
57.5°	1599.5	1590.3	1632.8	1673.9	1801.3	1811.3	1984.4	1935.1	1731.5	1827.5
60°	1677.9	1671.4	1704.4	1765.3	1927.8	1943.8	2127.7	2045.2	1790.2	1905.1
62.5°	1837.0	1820.7	1825.9	1879.7	2087.4	2108.5	2289.4	2141.2	1819.4	1935.4
65°	2074.7	2046.8	2020.9	2058.2	2312.2	2333.0	2472.0	2216.7	1808.6	1876.7
67.5°	2374.1	2346.5	2314.6	2349.8	2643.2	2659.7	2697.3	2259.2	1723.4	1650.6
70°	2621.0	2610.7	2648.9	2793.6	3172.0	3172.5	2986.1	2224.0	1490.0	1170.3
72.5°	2588.3	2582.1	2783.0	3230.4	3838.4	3824.0	3259.6	1957.9	1003.7	527.9
75°	2123.4	2163.7	2475.0	3222.5	4077.7	4075.8	3092.2	1244.7	415.2	218.8
77.5°	1138.6	1202.5	1606.8	2379.2	3183.3	3231.2	2174.0	435.4	178.2	140.1
80°	371.3	427.1	640.4	1211.4	2068.5	2059.6	931.7	170.9	122.0	99.3
82.5°	157.7	164.2	286.1	572.0	1061.6	1045.1	296.7	98.2	85.7	67.9
85°	61.7	69.0	126.3	264.5	459.8	449.8	107.1	48.7	54.9	44.4
87.5°	20.3	24.6	45.2	90.6	143.1	137.9	26.2	16.8	23.8	20.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938969  
 CATALOG NUMBER: GALN-SB1B-830-U-T4FT

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
666.7	0°	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7
668.6	2.5°	672.4	676.7	681.8	689.4	695.9	701.3	707.0	710.5	711.9	715.9
669.7	5°	677.2	686.7	699.4	711.9	724.0	731.3	737.8	741.1	744.0	746.2
672.6	7.5°	685.3	697.5	717.5	733.8	744.0	750.0	754.3	753.2	754.3	754.9
675.9	10°	692.4	709.4	733.2	748.6	756.5	756.7	755.7	751.9	750.0	750.3
680.7	12.5°	700.8	719.7	745.4	758.4	760.5	754.6	750.0	743.5	741.1	740.0
688.0	15°	712.1	733.8	758.6	763.5	758.1	750.5	742.7	732.1	726.7	722.4
700.5	17.5°	725.9	749.7	768.9	765.4	753.8	741.3	728.6	712.7	701.6	697.0
717.5	20°	745.1	766.5	776.8	761.3	743.8	724.8	703.2	683.7	673.4	668.8
739.2	22.5°	768.4	788.9	784.3	754.3	729.4	699.1	672.1	657.8	652.6	649.4
767.0	25°	796.2	813.8	789.7	744.0	705.9	665.1	644.2	639.6	637.2	634.8
801.1	27.5°	832.5	841.9	793.8	728.9	669.1	628.8	621.2	622.1	621.2	617.2
848.4	30°	880.3	878.5	797.6	704.3	626.9	596.1	596.6	600.2	600.7	598.0
914.4	32.5°	943.4	924.2	799.5	672.4	586.6	567.4	568.0	571.8	574.5	569.9
1000.7	35°	1019.6	977.4	796.5	632.3	555.5	540.1	536.1	537.1	537.9	533.6
1105.4	37.5°	1108.6	1037.2	783.3	588.0	529.8	513.3	504.7	497.4	493.0	489.0
1223.8	40°	1206.3	1102.4	758.9	544.7	501.2	484.9	472.0	458.2	443.6	438.1
1349.3	42.5°	1308.5	1169.5	729.4	503.3	468.2	454.9	441.1	421.1	399.2	388.1
1479.7	45°	1414.5	1238.2	700.5	462.5	434.4	428.7	412.7	388.7	364.9	350.8
1610.3	47.5°	1518.4	1303.1	658.0	421.4	402.7	408.9	396.5	374.3	347.8	325.6
1739.9	50°	1617.6	1363.9	588.5	379.7	377.0	403.0	391.1	359.2	328.9	300.5
1867.0	52.5°	1716.1	1413.2	499.5	341.9	363.2	401.4	384.1	348.9	311.8	282.1
1986.5	55°	1799.6	1438.6	413.8	309.4	343.2	387.6	375.7	336.7	287.8	256.1
2068.5	57.5°	1847.2	1418.0	342.4	277.5	315.6	364.9	361.3	310.8	259.1	234.8
2084.4	60°	1826.7	1334.7	284.0	249.6	289.4	340.2	336.5	285.1	237.2	214.2
1999.0	62.5°	1713.4	1176.0	237.7	225.3	265.6	315.1	311.6	265.3	220.4	198.2
1772.1	65°	1485.1	956.6	201.8	205.0	241.5	284.8	289.9	248.8	207.2	185.5
1371.0	67.5°	1132.7	692.9	173.6	187.4	218.0	255.0	269.9	236.9	196.1	175.5
793.3	70°	645.6	393.5	149.8	170.4	197.2	227.5	254.5	227.5	184.2	167.1
297.2	72.5°	244.8	180.7	129.6	153.4	177.2	204.2	237.5	212.6	170.4	157.7
153.6	75°	130.6	110.1	109.0	133.3	154.2	181.5	216.1	198.0	160.1	166.6
106.3	77.5°	89.0	77.9	91.1	114.1	129.0	156.3	193.4	175.8	138.7	138.2
73.6	80°	61.7	55.2	74.1	92.0	99.8	131.4	168.8	150.9	113.1	105.5
45.4	82.5°	37.1	36.0	55.4	68.7	70.6	101.4	139.8	126.6	92.5	80.6
27.0	85°	20.3	21.4	35.4	40.3	41.1	70.9	109.5	97.9	71.1	59.8
9.7	87.5°	5.7	7.3	13.0	16.0	19.7	36.8	65.2	58.1	35.7	24.9
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>
666.7
715.6
746.7
755.7
750.8
739.4
723.8
697.2
668.3
649.9
634.8
618.0
599.3
572.0
536.6
491.7
440.6
389.5
349.7
323.2
298.0
278.8
253.4
231.5
211.0
194.7
182.0
172.3
165.0
155.5
172.0
127.4
100.9
81.1
60.3
24.9
0.0

F REPORT)