

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: P939205

Luminaire Tested: **GALN-SB1C-940-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939205  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-940-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

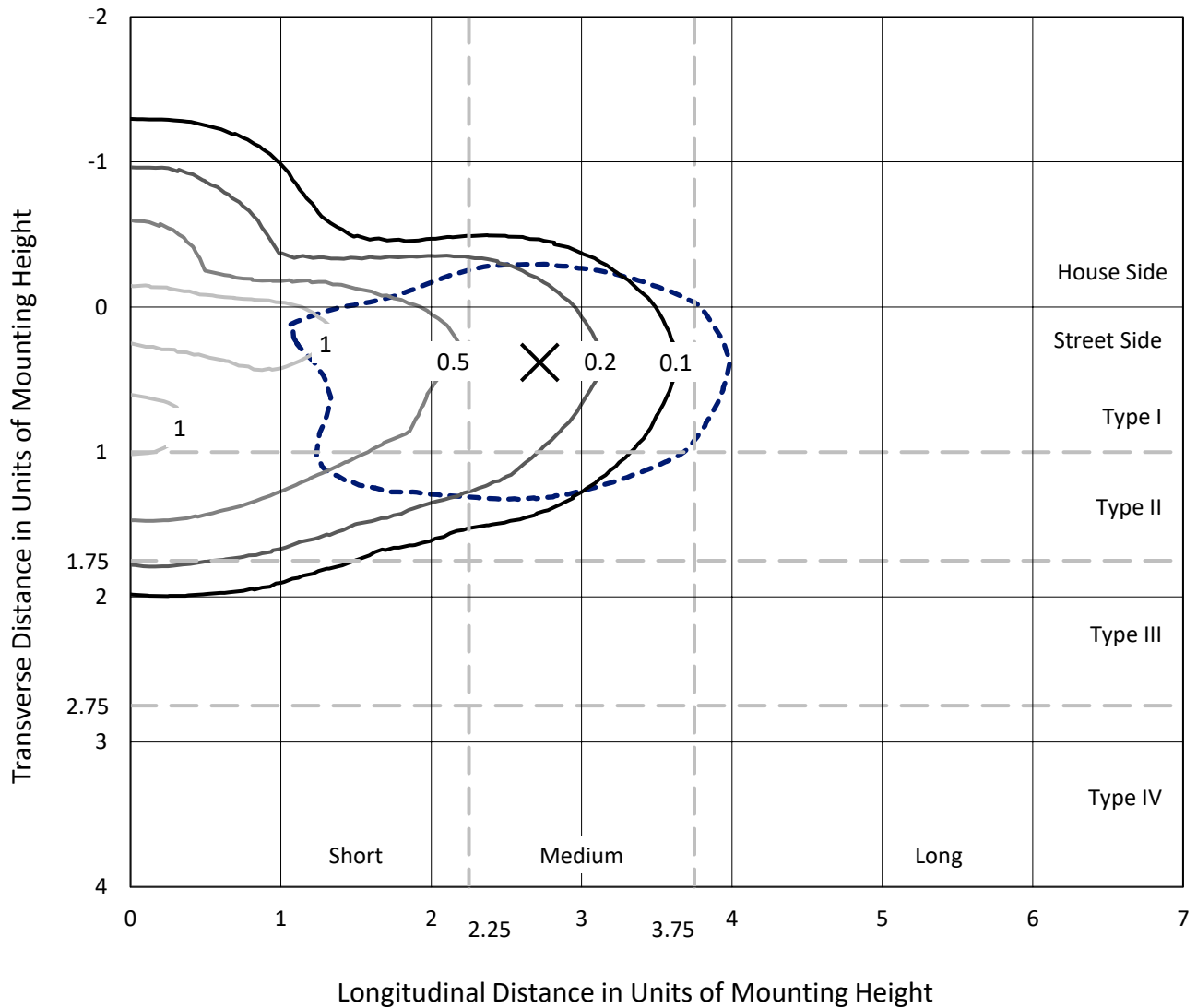
Lumens per Lamp: N/A  
Luminaire Lumens: 5379 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P939205  
 CATALOG NUMBER: GALN-SB1C-940-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

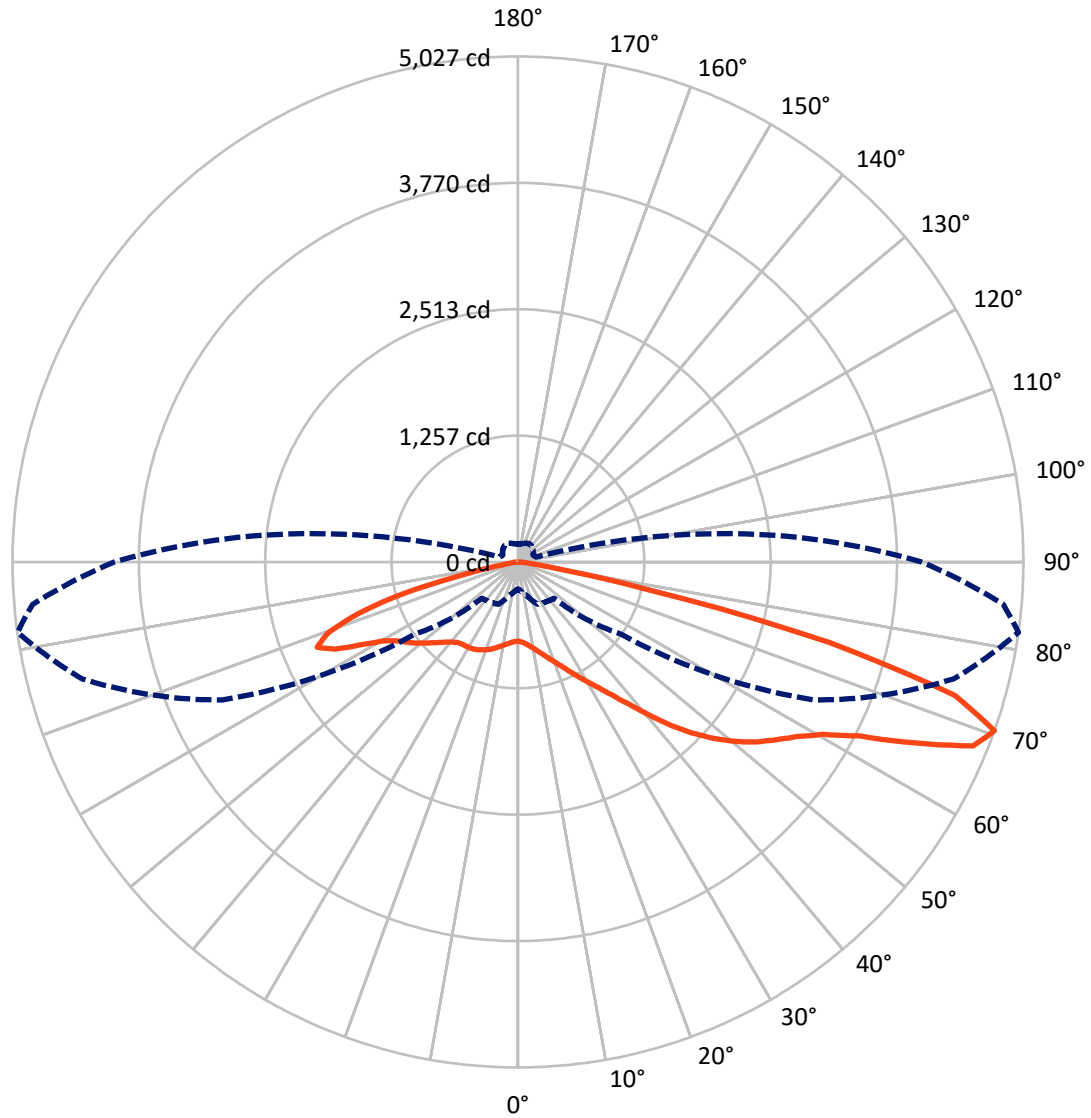
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type II - Medium - N/A

REPORT NUMBER: P939205  
CATALOG NUMBER: GALN-SB1C-940-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P939205  
 CATALOG NUMBER: GALN-SB1C-940-U-T2

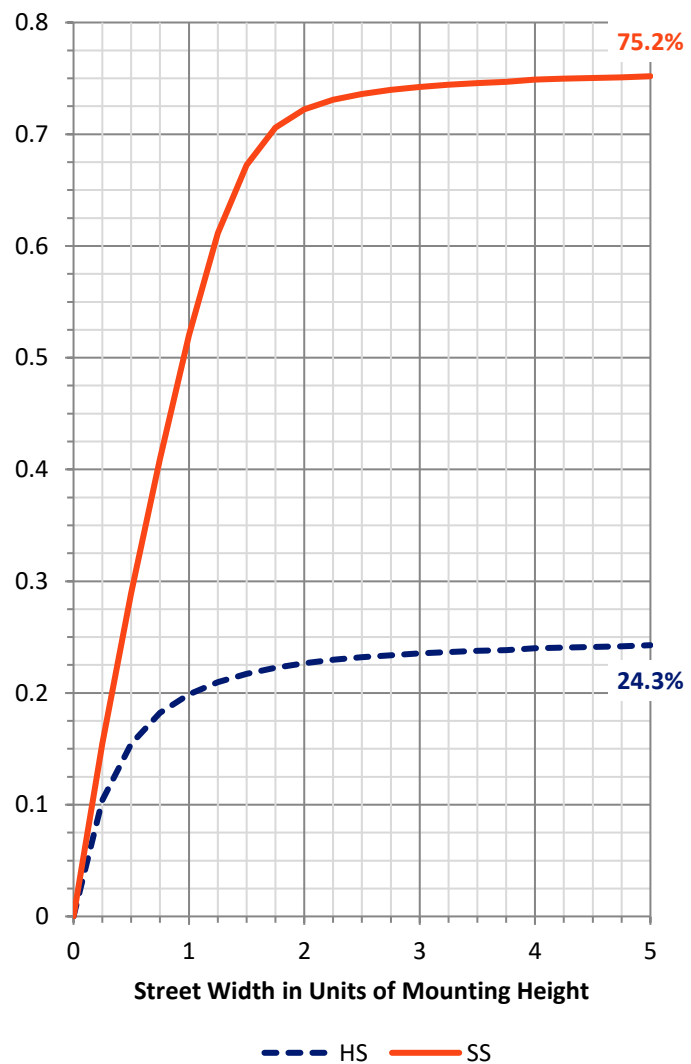
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1326.1	0.0	1326.1
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	4052.9	0.0	4052.9
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	5379.0	0.0	5379.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.5	1.4
10°-20°	213.9	4.0
20°-30°	357.9	6.7
30°-40°	559.1	10.4
40°-50°	890.4	16.6
50°-60°	1239.2	23.0
60°-70°	1296.2	24.1
70°-80°	677.5	12.6
80°-90°	70.3	1.3
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°	5379.0	100.0
0°-180°	5379.0	100.0

**Coefficient of Utilization**



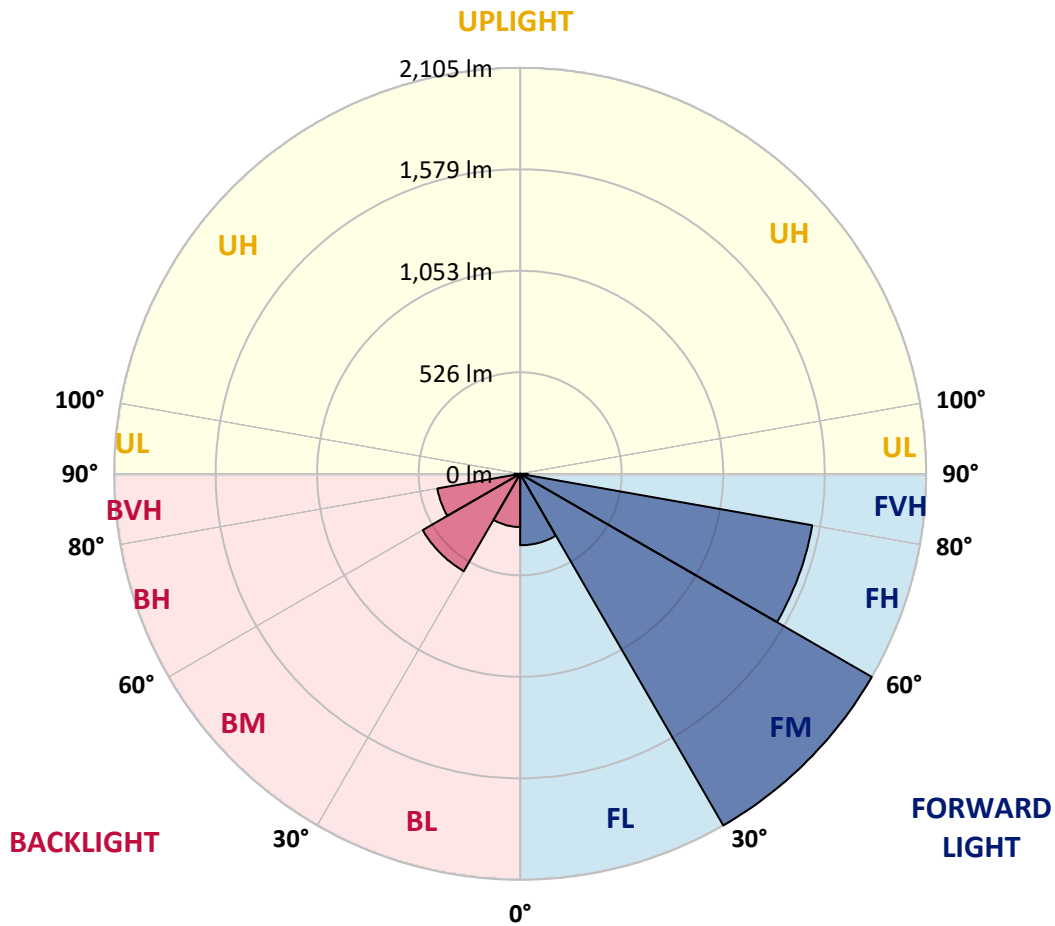
REPORT NUMBER: P939205  
 CATALOG NUMBER: GALN-SB1C-940-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.4	6.9			
FM (30°-60°)	2105.3	39.1			
FH (60°-80°)	1537.9	28.6			G1/1800
FVH (80°-90°)	39.4	0.7			G1/100
BL (0°-30°)	275.9	5.1	B1/500		
BM (30°-60°)	583.4	10.8	B1/1000		
BH (60°-80°)	435.8	8.1	B1/500		G1/500
BVH (80°-90°)	31.0	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-G1**

Type II Medium



REPORT NUMBER: P939205

CATALOG NUMBER: GALN-SB1C-940-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6
2.5°	807.5	812.0	810.6	809.2	809.2	807.2	806.9	804.0	801.8	798.0
5°	817.7	822.6	822.0	823.2	826.9	827.7	828.6	826.9	822.3	817.7
7.5°	808.6	814.0	815.7	822.6	834.0	844.3	852.0	855.1	850.9	844.3
10°	777.8	783.8	789.8	806.0	826.3	850.6	871.1	883.4	882.5	876.3
12.5°	715.3	721.6	734.4	766.1	803.2	846.0	884.2	909.9	918.8	914.2
15°	665.3	670.7	680.5	713.0	761.2	826.3	889.1	939.0	961.6	959.0
17.5°	663.9	666.2	672.2	687.6	724.7	795.5	884.0	967.6	1010.7	1010.4
20°	689.0	689.9	693.3	696.4	717.6	772.1	870.8	991.3	1065.8	1065.8
22.5°	723.8	723.3	726.7	723.8	734.1	770.1	862.6	1012.1	1127.1	1131.7
25°	776.1	773.2	772.4	765.8	767.8	788.6	871.7	1035.8	1199.9	1209.3
27.5°	845.7	841.1	838.0	822.9	817.7	826.9	899.7	1064.3	1281.0	1297.3
30°	936.5	928.2	923.6	897.4	878.8	880.3	941.9	1102.3	1365.8	1392.0
32.5°	1060.4	1047.5	1035.2	992.1	958.2	947.0	996.4	1154.8	1457.7	1499.6
35°	1199.1	1188.8	1175.7	1109.2	1056.9	1031.2	1070.1	1228.2	1565.3	1631.8
37.5°	1332.6	1323.8	1330.1	1240.5	1173.1	1135.7	1166.5	1326.7	1698.0	1796.2
40°	1470.8	1463.9	1464.8	1379.2	1300.7	1258.7	1283.6	1450.2	1850.1	1991.7
42.5°	1620.9	1615.8	1598.7	1522.7	1434.5	1395.4	1418.3	1593.0	2013.4	2214.3
45°	1789.0	1785.9	1769.9	1682.9	1581.8	1537.9	1568.7	1750.5	2177.5	2423.8
47.5°	1934.3	1936.9	1934.9	1861.5	1756.8	1692.3	1729.1	1914.9	2330.2	2620.8
50°	2004.3	2017.7	2037.4	2014.5	1949.5	1883.8	1890.9	2073.6	2475.8	2805.4
52.5°	1967.7	1993.1	2046.8	2083.3	2108.4	2094.7	2075.6	2231.2	2612.8	2972.1
55°	1831.6	1867.2	1956.3	2044.5	2172.7	2272.3	2297.4	2405.8	2746.4	3118.8
57.5°	1583.5	1641.5	1721.4	1899.8	2115.6	2358.2	2556.0	2648.2	2887.9	3275.5
60°	1158.3	1235.9	1335.2	1600.7	1915.8	2312.2	2776.0	3020.4	3089.2	3478.5
62.5°	741.2	789.2	880.5	1130.6	1492.8	2076.8	2843.4	3485.6	3430.2	3811.3
65°	507.5	538.3	621.9	762.4	965.0	1545.9	2663.0	3834.4	3972.0	4338.7
67.5°	368.8	392.2	463.5	586.5	628.8	914.8	2066.5	3818.4	4498.6	4882.2
70°	268.9	285.4	345.4	463.5	483.8	508.9	1251.9	3245.9	4487.2	5026.6
72.5°	199.2	210.6	250.9	359.6	391.6	343.7	619.7	2359.0	3855.8	4546.5
75°	144.1	152.7	182.4	275.1	313.4	261.7	309.1	1378.6	2689.6	3198.2
77.5°	110.2	116.7	136.1	201.5	250.9	196.4	191.8	634.2	1275.3	1281.6
80°	88.5	92.8	103.3	141.9	192.4	147.0	125.0	256.0	403.0	341.1
82.5°	65.1	72.2	87.3	99.6	137.6	101.3	76.2	129.3	153.3	131.9
85°	37.1	42.0	52.8	71.4	87.9	61.9	43.7	57.4	71.4	58.5
87.5°	13.1	17.1	18.6	28.0	38.2	25.7	16.8	16.6	23.4	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939205  
 CATALOG NUMBER: GALN-SB1C-940-U-T2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
788.6	0°	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6
797.2	2.5°	794.3	792.9	787.2	779.5	771.5	763.8	761.2	755.8	752.1	750.1
815.7	5°	810.3	805.8	792.3	775.2	757.2	737.8	724.1	711.6	702.4	693.9
841.1	7.5°	833.2	825.2	802.0	772.1	740.1	707.9	683.9	665.6	653.3	645.3
870.8	10°	859.7	847.4	812.0	767.2	717.8	671.6	643.3	627.6	619.9	615.7
904.8	12.5°	890.2	872.8	822.3	756.1	683.9	631.1	611.7	607.1	607.4	607.7
947.6	15°	927.9	903.7	830.6	731.8	639.6	600.0	596.5	604.0	611.7	615.4
996.1	17.5°	970.4	936.2	832.0	691.9	596.3	580.0	590.8	606.8	618.5	623.7
1050.4	20°	1016.1	969.3	821.7	635.4	560.6	563.7	583.1	603.7	616.5	623.1
1112.3	22.5°	1068.3	1004.7	797.2	576.0	531.5	546.0	568.9	588.8	602.2	608.8
1185.1	25°	1128.0	1044.4	758.7	526.0	506.3	526.0	548.9	565.4	576.3	582.3
1266.4	27.5°	1194.2	1085.8	707.3	486.4	484.4	505.5	524.3	537.2	542.9	547.4
1352.9	30°	1260.7	1123.4	645.1	456.4	465.2	485.2	498.6	504.3	506.1	506.9
1449.4	32.5°	1332.6	1156.0	579.7	431.6	447.0	465.5	473.5	476.1	468.1	462.7
1566.4	35°	1419.7	1190.8	515.8	411.9	429.0	445.0	447.5	445.3	435.8	424.7
1713.1	37.5°	1527.3	1234.2	464.7	397.9	412.2	422.7	419.6	419.0	419.9	406.7
1889.5	40°	1659.2	1290.7	427.3	387.0	398.5	400.7	391.9	396.7	401.0	381.0
2083.0	42.5°	1805.6	1358.9	403.6	379.6	387.0	381.6	367.9	373.3	372.8	346.5
2277.4	45°	1954.9	1433.1	395.3	374.2	376.5	365.6	350.5	351.9	339.9	316.3
2463.8	47.5°	2103.3	1512.8	400.5	369.6	363.3	351.1	339.4	333.1	315.4	297.7
2642.5	50°	2248.9	1596.4	419.3	360.5	345.4	338.2	329.7	318.5	299.7	284.6
2811.4	52.5°	2383.9	1680.6	440.4	345.4	322.8	327.1	321.7	308.8	290.3	274.9
2971.3	55°	2511.7	1764.8	448.7	324.5	301.7	317.4	314.3	290.6	268.3	255.7
3138.5	57.5°	2651.0	1866.1	439.6	298.0	284.6	306.3	294.3	268.0	255.2	245.8
3356.3	60°	2844.0	2025.1	419.9	265.2	268.3	289.7	269.2	258.3	244.3	233.8
3682.8	62.5°	3164.5	2321.6	388.2	232.6	249.2	265.2	257.2	246.3	232.1	221.8
4241.1	65°	3638.3	2733.8	328.5	207.2	227.8	241.2	244.3	233.5	218.6	207.8
4730.3	67.5°	4037.9	2992.4	248.6	186.1	205.8	221.8	230.6	220.1	204.4	193.8
4844.8	70°	4015.9	2804.6	189.8	165.3	186.4	202.7	214.1	205.8	189.0	179.0
4400.7	72.5°	3567.0	2346.2	153.6	144.1	166.7	182.7	196.4	190.1	173.0	163.3
3223.9	75°	2620.5	1665.5	122.7	122.7	142.1	161.8	177.0	173.0	157.3	150.4
1353.5	77.5°	1104.6	698.7	96.2	101.9	118.2	139.0	157.8	159.3	145.6	154.1
357.9	80°	293.7	192.7	73.4	80.2	92.8	114.7	137.3	136.7	121.9	113.9
133.0	82.5°	111.9	75.9	52.2	56.5	67.1	87.9	108.7	112.2	97.3	84.2
52.2	85°	43.1	32.5	32.3	34.0	39.1	58.2	82.2	85.1	73.4	62.2
14.6	87.5°	11.1	9.7	12.0	11.4	18.0	31.1	47.1	48.8	44.8	26.0
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>
788.6
752.4
697.3
647.1
616.8
608.2
615.1
624.8
624.8
610.5
584.0
549.2
508.9
464.4
425.3
407.6
381.6
346.2
317.1
297.7
283.4
275.1
254.6
244.9
233.2
221.8
208.4
194.1
179.8
163.3
148.4
139.9
105.9
84.2
64.2
37.1
0.0

F REPORT)