

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: P939087

Luminaire Tested: **GALN-SB1C-735-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939087  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-735-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7497 lumens  
Efficiency: N/A  
Efficacy: 137.8 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

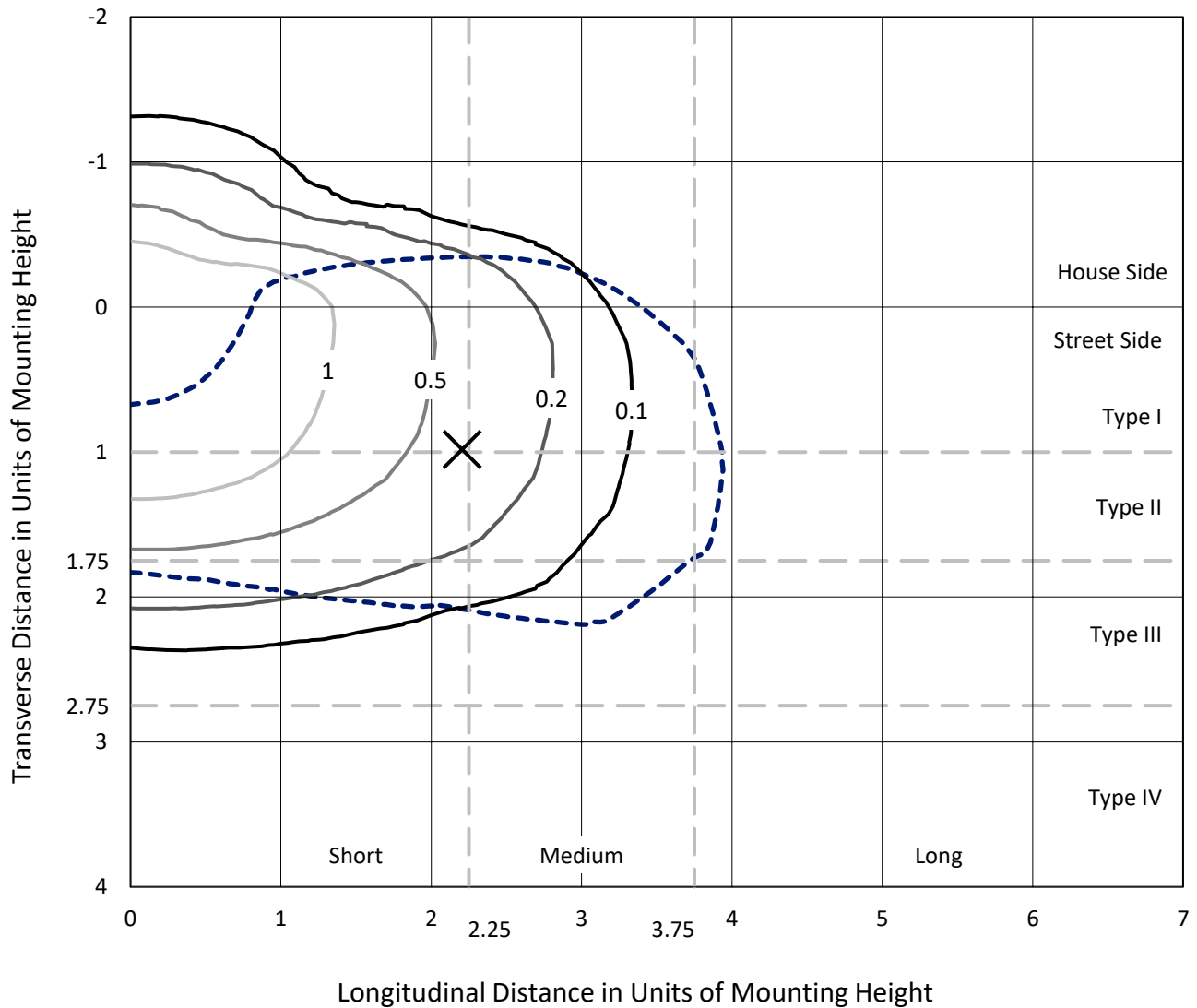
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P939087  
 CATALOG NUMBER: GALN-SB1C-735-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

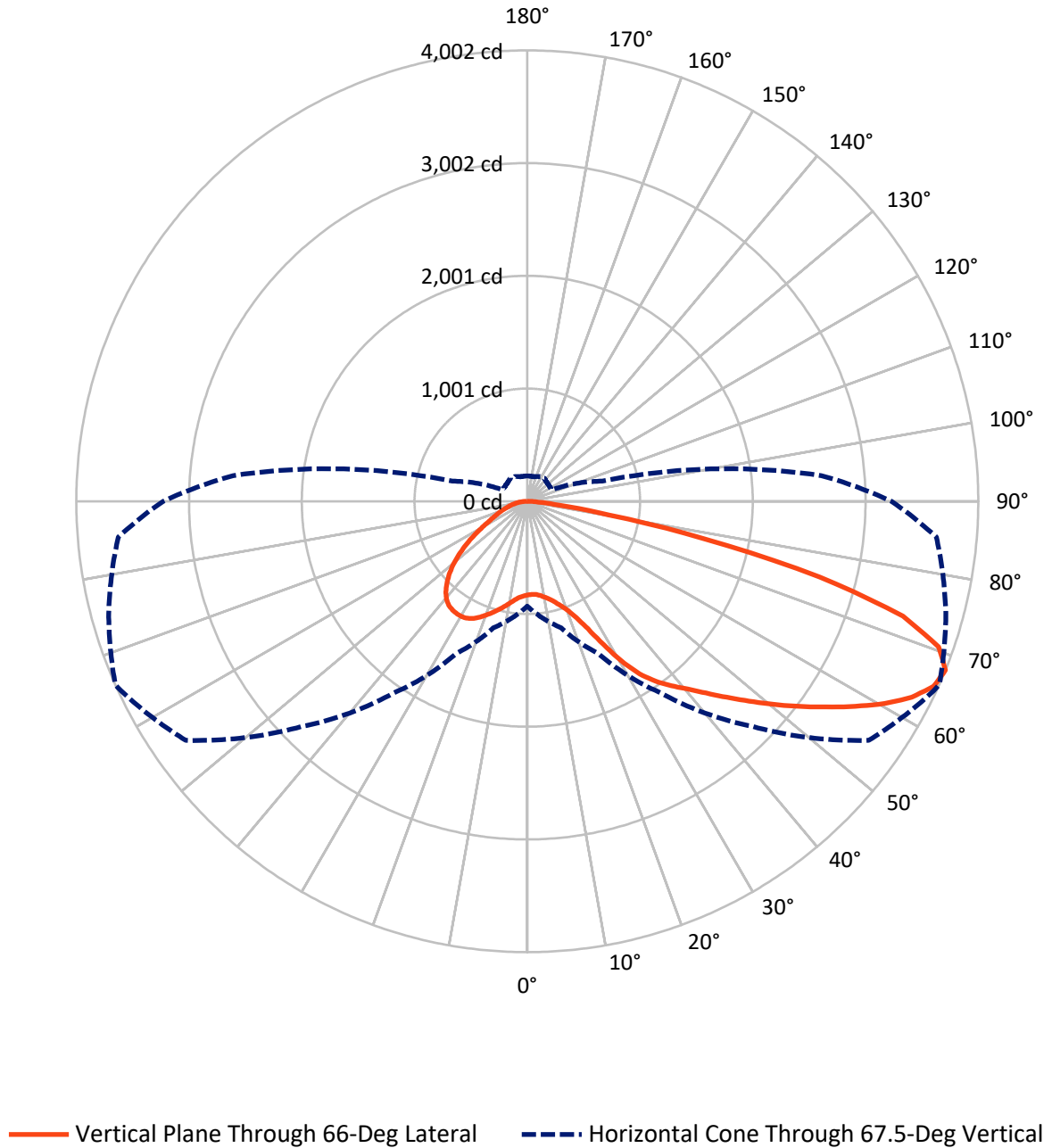
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P939087  
CATALOG NUMBER: GALN-SB1C-735-U-T3

### Luminous Intensity Polar Plot



REPORT NUMBER: P939087

CATALOG NUMBER: GALN-SB1C-735-U-T3

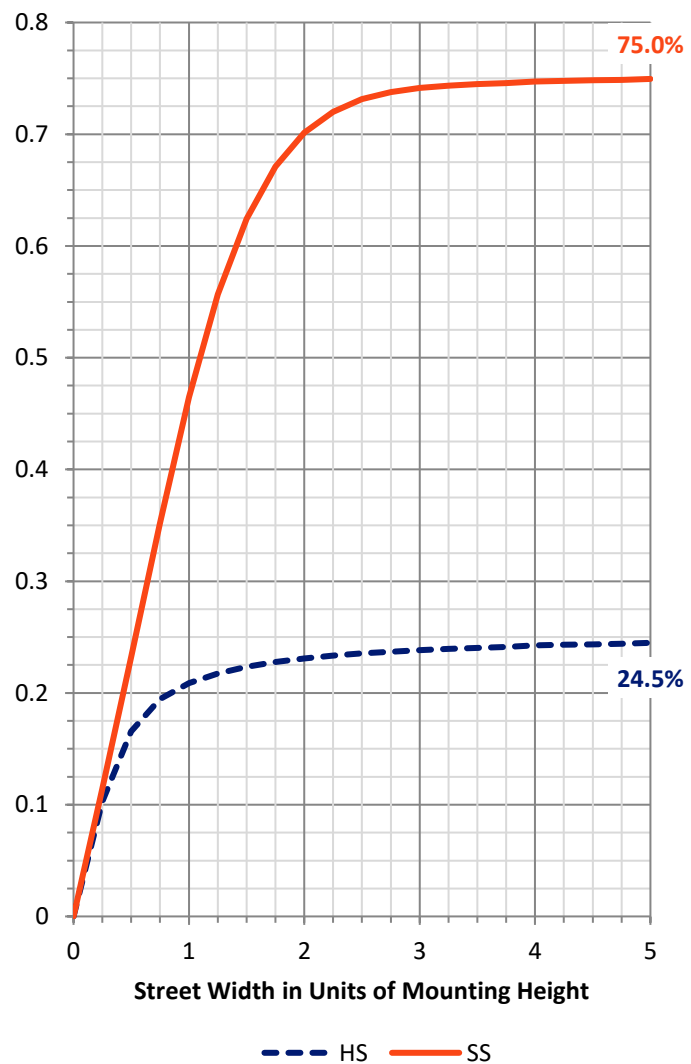
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1864.1	0.0	1864.1
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	5632.9	0.0	5632.9
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	7497.0	0.0	7497.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.4	1.1
10°-20°	272.4	3.6
20°-30°	525.0	7.0
30°-40°	920.5	12.3
40°-50°	1368.5	18.3
50°-60°	1734.7	23.1
60°-70°	1697.3	22.6
70°-80°	809.7	10.8
80°-90°	86.5	1.2
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°	7497.0	100.0
0°-180°	7497.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939087

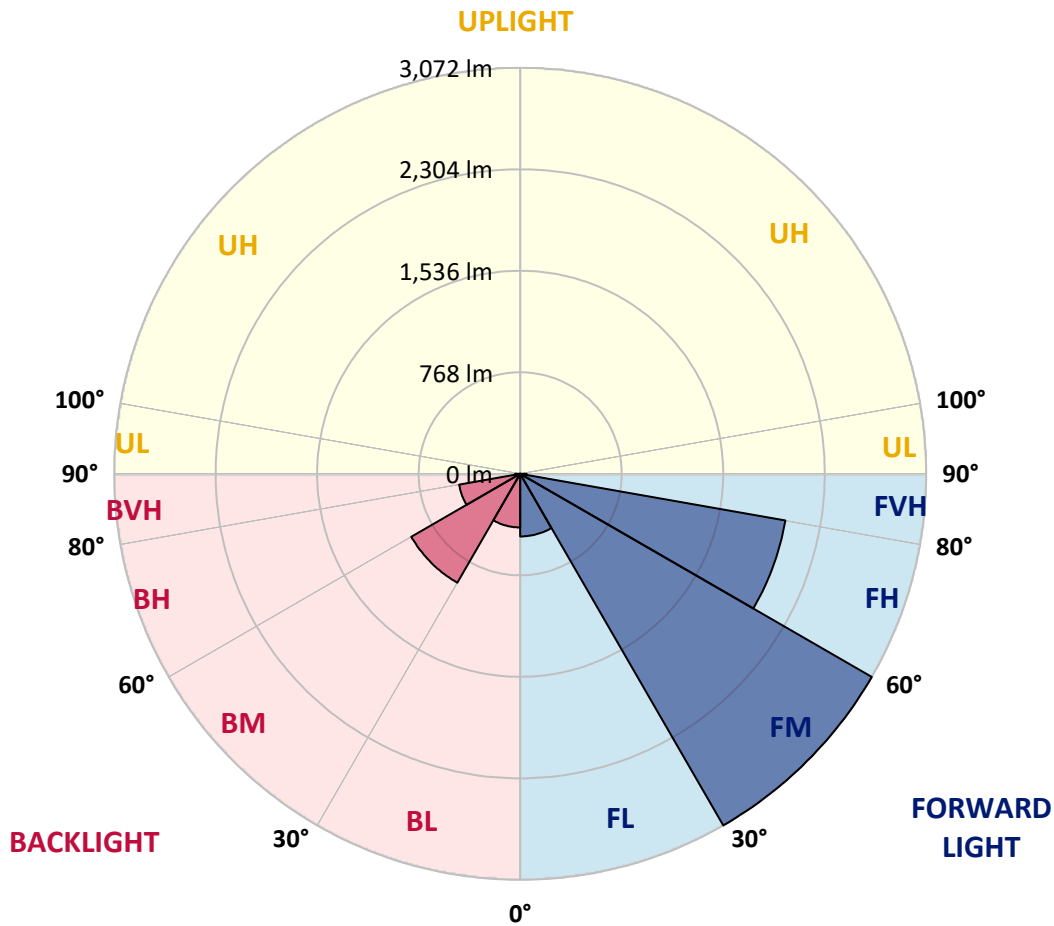
CATALOG NUMBER: GALN-SB1C-735-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.7	6.3			
FM (30°-60°)	3072.2	41.0			
FH (60°-80°)	2037.9	27.2			G2/5000
FVH (80°-90°)	49.1	0.7			G1/100
BL (0°-30°)	406.1	5.4	B1/500		
BM (30°-60°)	951.5	12.7	B1/1000		
BH (60°-80°)	469.1	6.3	B1/500		G1/500
BVH (80°-90°)	37.5	0.5			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 III Short



REPORT NUMBER: P939087

CATALOG NUMBER: GALN-SB1C-735-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	822.9	827.6	826.4	824.4	824.0	824.8	826.0	827.2	826.8	828.8
5°	820.5	825.2	824.8	824.8	826.4	829.5	831.5	833.5	831.5	833.9
7.5°	822.1	825.6	827.2	828.8	832.7	838.6	843.3	847.7	845.3	848.1
10°	842.2	844.9	846.5	846.5	849.2	855.9	860.7	868.5	866.6	870.9
12.5°	878.8	881.5	881.5	880.0	881.9	886.3	887.8	896.5	893.0	900.1
15°	923.7	929.2	924.9	922.1	922.9	927.2	926.8	933.5	930.0	935.9
17.5°	973.3	980.4	973.3	972.9	971.3	976.1	976.5	982.4	976.1	980.4
20°	1032.0	1041.9	1035.9	1037.9	1034.4	1036.3	1038.3	1047.0	1037.1	1040.3
22.5°	1114.7	1126.5	1120.2	1127.7	1125.4	1123.8	1123.4	1138.8	1123.4	1124.6
25°	1235.3	1249.4	1238.4	1248.7	1248.7	1253.8	1259.7	1279.4	1253.8	1246.3
27.5°	1413.3	1427.5	1405.8	1412.1	1410.2	1422.8	1416.5	1465.3	1437.7	1425.5
30°	1627.6	1652.8	1611.8	1610.3	1608.3	1628.4	1637.4	1669.7	1641.8	1629.6
32.5°	1859.2	1885.6	1836.7	1822.6	1815.1	1827.3	1819.8	1845.8	1826.5	1807.6
35°	2104.2	2130.2	2083.7	2056.1	2026.2	2000.6	1973.8	1980.5	1962.4	1933.6
37.5°	2335.8	2383.5	2334.2	2304.7	2249.5	2199.5	2124.7	2093.6	2076.6	2050.2
40°	2571.8	2598.9	2561.5	2536.3	2476.4	2398.0	2278.3	2212.5	2189.7	2164.1
42.5°	2745.5	2771.5	2751.4	2734.0	2687.2	2596.2	2441.4	2359.0	2326.0	2297.2
45°	2883.3	2902.6	2890.0	2896.3	2876.2	2788.0	2610.4	2516.2	2481.9	2446.9
47.5°	2938.9	2959.3	2979.4	3016.9	3051.1	2986.1	2791.9	2686.4	2650.1	2614.3
50°	2932.6	2953.4	3011.7	3091.3	3197.7	3176.0	2983.4	2867.6	2834.1	2793.1
52.5°	2882.1	2905.8	2980.6	3113.0	3282.3	3318.2	3178.4	3054.7	3023.2	2974.3
55°	2749.8	2764.0	2876.2	3063.7	3302.4	3417.4	3369.4	3254.0	3222.5	3154.3
57.5°	2504.4	2524.9	2688.3	2931.0	3252.0	3484.8	3537.2	3463.5	3433.2	3335.1
60°	2184.2	2216.9	2404.0	2708.0	3123.6	3484.4	3689.6	3669.5	3644.3	3513.2
62.5°	1821.8	1859.6	2039.6	2392.9	2899.1	3385.5	3785.0	3842.1	3829.1	3677.4
65°	1399.1	1425.1	1604.3	1985.2	2549.7	3173.2	3796.0	3959.8	3962.2	3802.3
67.5°	931.6	1006.4	1162.0	1489.7	2081.7	2826.2	3699.1	3979.1	4002.0	3845.2
70°	454.6	553.0	705.5	968.2	1489.7	2294.1	3445.8	3820.8	3871.6	3720.0
72.5°	188.7	220.6	303.7	477.8	855.2	1548.0	2936.9	3391.5	3485.6	3296.1
75°	127.2	137.9	173.7	245.0	389.6	763.4	2118.0	2528.8	2680.5	2489.4
77.5°	98.1	104.8	126.4	171.3	231.6	288.7	1133.6	1524.0	1602.4	1483.4
80°	77.2	82.3	94.5	124.9	164.3	154.4	386.4	690.5	735.8	617.2
82.5°	67.0	68.9	67.8	84.7	109.1	90.2	126.8	254.9	281.2	204.0
85°	48.4	54.0	56.3	52.4	57.9	45.7	52.0	90.2	99.3	88.6
87.5°	19.7	29.1	35.8	33.9	21.3	13.0	16.1	26.4	30.3	33.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939087  
 CATALOG NUMBER: GALN-SB1C-735-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
831.5	0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
831.9	2.5°	832.3	835.1	837.0	839.4	841.0	843.3	848.1	850.8	851.2	853.2
838.2	5°	839.8	843.7	848.1	854.4	861.5	867.4	876.4	882.7	885.1	887.1
853.6	7.5°	855.9	861.5	869.3	880.4	890.6	898.5	909.5	917.0	924.5	927.2
878.0	10°	880.0	887.8	899.3	914.2	925.3	935.5	946.9	953.2	960.7	963.9
907.1	12.5°	909.9	918.2	933.1	954.0	964.3	971.3	975.3	973.7	975.3	978.0
942.2	15°	944.2	953.2	970.2	992.6	999.7	993.4	984.7	976.9	975.7	976.5
984.7	17.5°	984.7	991.4	1011.1	1030.0	1024.9	998.9	980.0	967.4	961.1	959.1
1039.1	20°	1041.5	1041.5	1057.6	1069.4	1035.2	991.0	961.5	941.0	928.0	922.5
1113.2	22.5°	1110.4	1104.1	1114.3	1106.1	1033.2	969.0	928.0	892.6	872.9	865.0
1216.7	25°	1197.8	1190.4	1187.6	1136.4	1019.0	933.9	867.4	824.4	807.1	802.8
1366.0	27.5°	1329.8	1310.9	1275.0	1152.9	993.0	878.8	796.5	756.7	746.8	747.2
1557.9	30°	1505.5	1467.7	1379.8	1155.7	950.5	800.8	724.0	695.6	690.9	692.9
1719.0	32.5°	1668.2	1632.3	1487.0	1143.1	885.1	724.4	659.0	640.1	633.0	635.4
1841.9	35°	1795.8	1785.9	1586.2	1125.4	804.7	652.7	600.7	584.5	570.8	567.6
1957.7	37.5°	1916.3	1912.4	1660.7	1100.5	725.2	601.9	553.8	532.5	512.5	501.4
2085.7	40°	2048.7	2044.7	1709.5	1062.3	654.7	557.8	511.7	483.7	458.9	438.8
2230.6	42.5°	2197.6	2174.3	1732.8	1007.6	594.8	520.3	477.4	439.6	406.9	388.4
2394.5	45°	2360.2	2307.8	1732.4	937.9	544.4	486.1	440.8	387.2	356.9	339.5
2562.7	47.5°	2532.8	2435.5	1711.1	860.7	495.5	448.3	384.0	343.1	323.0	312.4
2745.5	50°	2710.8	2554.8	1674.8	772.0	445.5	405.3	348.6	320.6	305.3	295.4
2926.7	52.5°	2878.2	2663.1	1631.1	671.6	394.7	363.6	332.8	311.2	295.0	284.0
3102.3	55°	3033.8	2756.5	1569.3	568.8	353.3	335.6	325.4	307.2	288.7	275.7
3280.8	57.5°	3172.1	2817.2	1462.5	472.3	323.8	316.3	317.5	300.5	279.3	268.2
3456.4	60°	3287.1	2861.7	1304.6	382.9	299.8	297.4	305.3	287.9	263.1	250.5
3604.9	62.5°	3356.0	2860.9	1110.8	313.5	279.3	280.1	289.1	272.2	247.0	235.2
3682.5	65°	3350.1	2790.8	898.1	268.2	259.6	260.4	272.2	254.9	233.6	226.5
3643.5	67.5°	3231.5	2619.8	688.9	238.7	237.9	241.5	255.2	243.0	225.3	224.5
3411.1	70°	2910.5	2264.9	496.3	215.1	215.5	220.6	238.7	235.6	221.0	222.6
2868.0	72.5°	2333.8	1726.8	333.2	190.3	190.6	198.9	222.9	229.6	216.6	237.5
2034.9	75°	1554.3	1076.9	214.3	163.9	164.3	174.9	209.2	218.2	204.8	236.7
1058.8	77.5°	746.8	484.1	155.2	137.9	137.9	147.7	180.8	195.4	174.5	183.9
340.3	80°	258.0	182.0	122.1	111.1	108.7	115.4	152.4	169.4	150.5	138.7
111.1	82.5°	101.6	94.5	98.1	86.3	78.4	82.7	118.6	139.8	110.7	100.0
62.6	85°	58.3	61.4	69.3	57.1	45.3	50.8	87.1	100.4	83.5	73.7
20.5	87.5°	15.8	21.7	31.9	29.5	20.5	21.7	41.4	55.5	48.1	37.0
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>
831.5
852.8
886.7
927.6
965.4
978.8
979.2
961.9
921.3
863.8
803.5
748.4
699.6
638.5
570.0
501.8
440.8
389.6
338.8
310.0
291.9
279.3
270.6
261.2
245.0
231.6
226.1
225.7
222.2
240.7
238.7
168.6
130.0
99.7
75.2
38.2
0.0

F REPORT)