

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: P939507

Luminaire Tested: **GALN-SB2A-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939507
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-SB2A-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8587 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

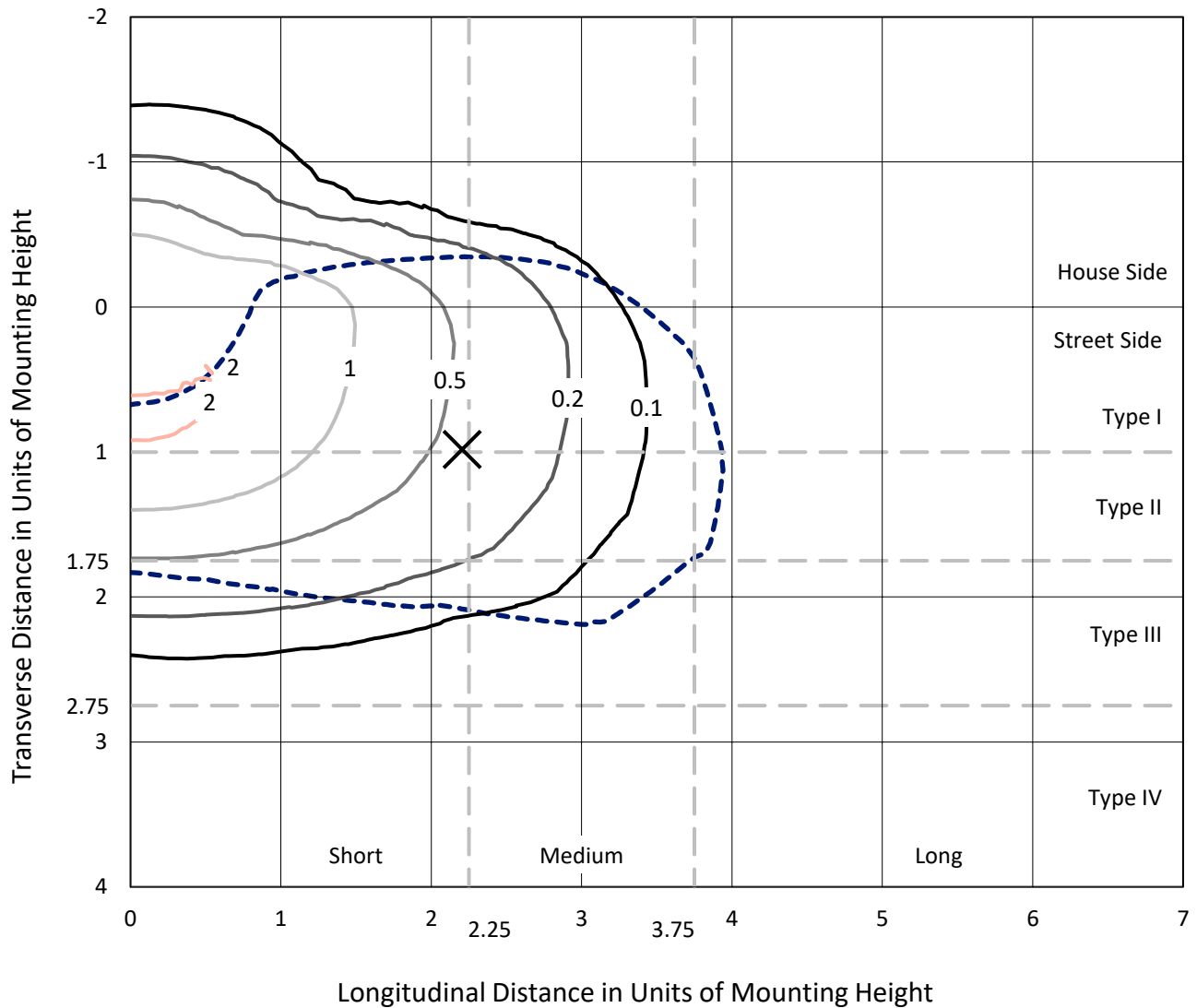
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939507
 CATALOG NUMBER: GALN-SB2A-850-U-T3

Iso-Footcandle Lines of Horizontal Illumination

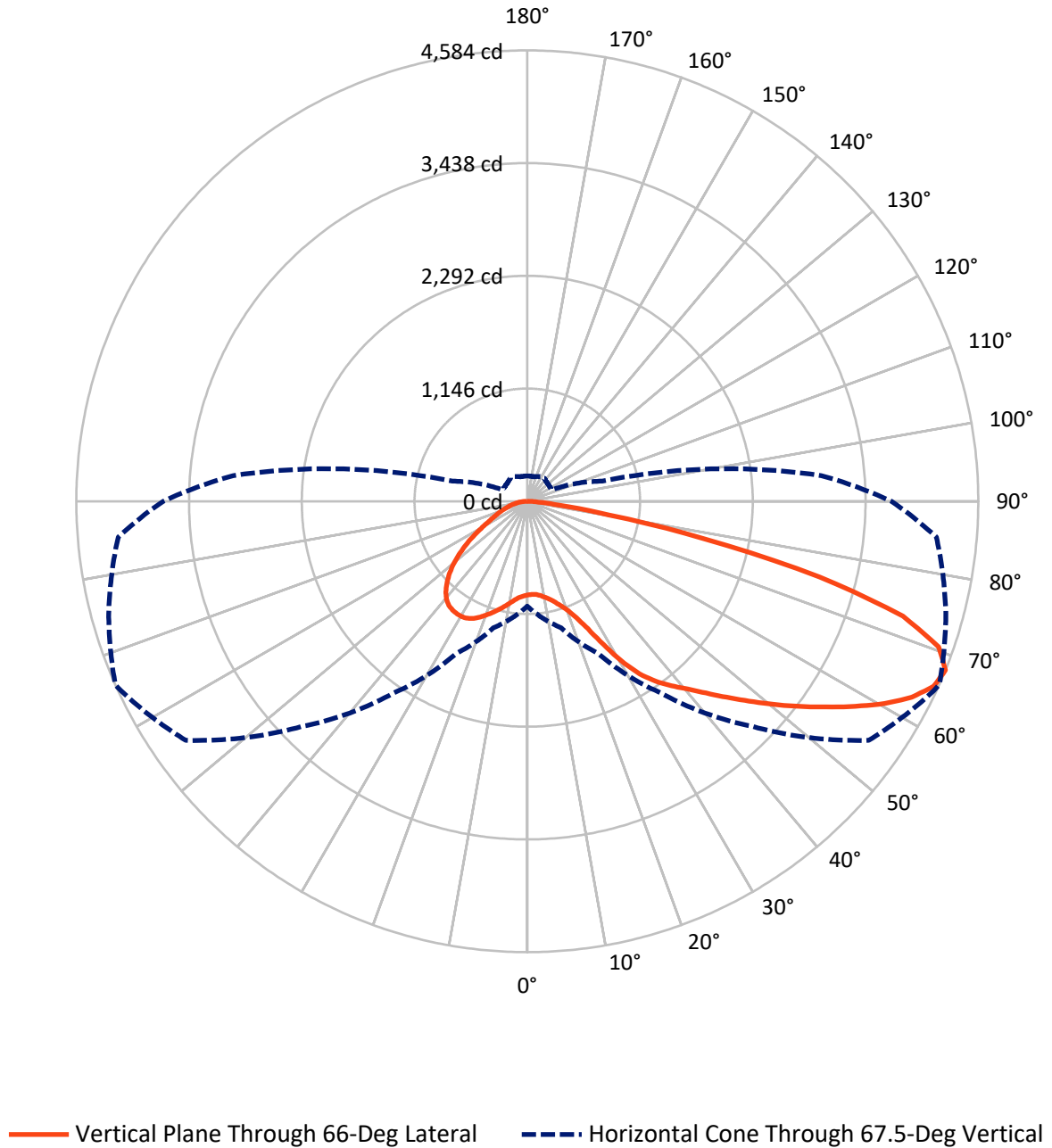
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P939507
CATALOG NUMBER: GALN-SB2A-850-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P939507
 CATALOG NUMBER: GALN-SB2A-850-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2135.1	0.0	2135.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	6451.9	0.0	6451.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	8587.0	0.0	8587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	1.1
10°-20°	312.0	3.6
20°-30°	601.3	7.0
30°-40°	1054.3	12.3
40°-50°	1567.4	18.3
50°-60°	1986.9	23.1
60°-70°	1944.1	22.6
70°-80°	927.4	10.8
80°-90°	99.1	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°	8587.0	100.0
0°-180°	8587.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939507

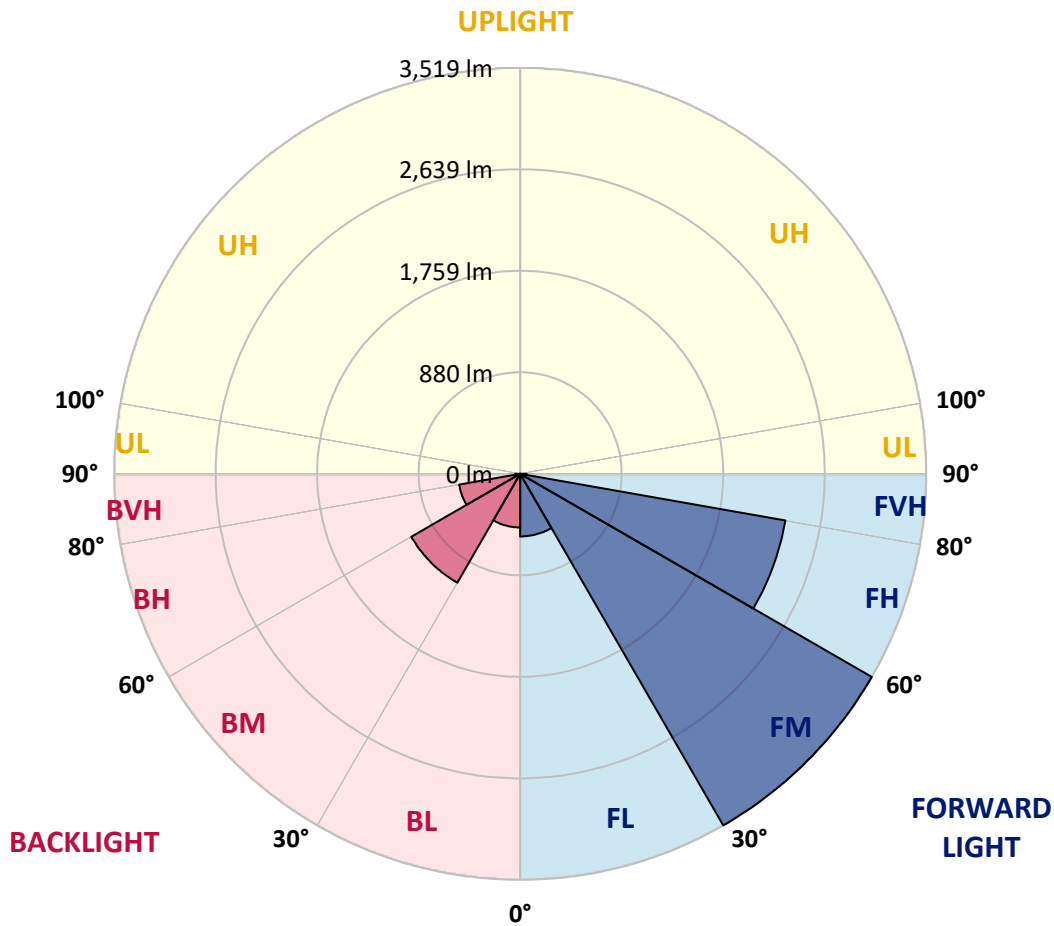
CATALOG NUMBER: GALN-SB2A-850-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	542.6	6.3			
FM (30°-60°)	3518.9	41.0			
FH (60°-80°)	2334.2	27.2			G2/5000
FVH (80°-90°)	56.2	0.7			G1/100
BL (0°-30°)	465.1	5.4	B1/500		
BM (30°-60°)	1089.8	12.7	B2/2500		
BH (60°-80°)	537.3	6.3	B2/1000		G2/1000
BVH (80°-90°)	42.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P939507
 CATALOG NUMBER: GALN-SB2A-850-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	952.4	952.4	952.4	952.4	952.4	952.4	952.4	952.4	952.4	952.4
2.5°	942.5	947.9	946.5	944.3	943.8	944.7	946.1	947.4	947.0	949.3
5°	939.8	945.2	944.7	944.7	946.5	950.2	952.4	954.7	952.4	955.1
7.5°	941.6	945.6	947.4	949.3	953.8	960.5	965.9	970.9	968.2	971.4
10°	964.6	967.8	969.6	969.6	972.7	980.4	985.8	994.8	992.6	997.5
12.5°	1006.6	1009.7	1009.7	1007.9	1010.2	1015.1	1016.9	1026.9	1022.8	1030.9
15°	1058.0	1064.3	1059.3	1056.2	1057.1	1062.0	1061.6	1069.3	1065.2	1072.0
17.5°	1114.8	1123.0	1114.8	1114.4	1112.6	1118.0	1118.4	1125.2	1118.0	1123.0
20°	1182.1	1193.3	1186.6	1188.8	1184.8	1187.0	1189.3	1199.2	1187.9	1191.5
22.5°	1276.8	1290.3	1283.1	1291.7	1289.0	1287.2	1286.7	1304.3	1286.7	1288.1
25°	1414.9	1431.1	1418.5	1430.2	1430.2	1436.1	1442.8	1465.4	1436.1	1427.5
27.5°	1618.8	1635.0	1610.2	1617.4	1615.2	1629.6	1622.4	1678.3	1646.8	1632.8
30°	1864.2	1893.1	1846.2	1844.4	1842.1	1865.1	1875.5	1912.5	1880.5	1866.5
32.5°	2129.5	2159.7	2103.8	2087.5	2079.0	2093.0	2084.4	2114.2	2092.1	2070.4
35°	2410.1	2439.9	2386.7	2355.1	2320.8	2291.5	2260.8	2268.5	2247.7	2214.8
37.5°	2675.4	2730.0	2673.6	2639.8	2576.6	2519.3	2433.6	2397.9	2378.5	2348.3
40°	2945.7	2976.8	2933.9	2905.1	2836.5	2746.7	2609.5	2534.2	2508.0	2478.7
42.5°	3144.6	3174.4	3151.4	3131.5	3077.9	2973.6	2796.3	2702.0	2664.1	2631.2
45°	3302.5	3324.6	3310.2	3317.4	3294.4	3193.4	2989.9	2882.0	2842.8	2802.6
47.5°	3366.2	3389.6	3412.6	3455.5	3494.7	3420.3	3197.9	3077.0	3035.4	2994.4
50°	3358.9	3382.8	3449.6	3540.8	3662.6	3637.8	3417.1	3284.5	3246.1	3199.2
52.5°	3301.2	3328.3	3414.0	3565.6	3759.6	3800.6	3640.5	3498.8	3462.7	3406.8
55°	3149.6	3165.8	3294.4	3509.2	3782.6	3914.3	3859.3	3727.1	3691.0	3612.9
57.5°	2868.5	2892.0	3079.2	3357.1	3724.8	3991.5	4051.5	3967.1	3932.4	3820.0
60°	2501.7	2539.2	2753.5	3101.8	3577.7	3991.0	4226.1	4203.1	4174.2	4024.0
62.5°	2086.6	2130.0	2336.1	2740.8	3320.6	3877.8	4335.3	4400.7	4385.8	4212.1
65°	1602.5	1632.3	1837.6	2273.9	2920.4	3634.6	4347.9	4535.6	4538.3	4355.1
67.5°	1067.0	1152.7	1330.9	1706.3	2384.4	3237.1	4236.9	4557.7	4583.8	4404.3
70°	520.6	633.4	808.0	1109.0	1706.3	2627.6	3946.8	4376.3	4434.5	4260.8
72.5°	216.1	252.7	347.8	547.3	979.5	1773.1	3363.9	3884.5	3992.4	3775.4
75°	145.7	157.9	199.0	280.6	446.2	874.4	2425.9	2896.5	3070.2	2851.4
77.5°	112.3	120.0	144.8	196.3	265.3	330.7	1298.5	1745.6	1835.3	1699.1
80°	88.4	94.3	108.3	143.0	188.1	176.9	442.6	790.9	842.8	707.0
82.5°	76.7	79.0	77.6	97.0	125.0	103.3	145.3	291.9	322.1	233.7
85°	55.5	61.8	64.5	60.0	66.3	52.3	59.6	103.3	113.7	101.5
87.5°	22.6	33.4	41.1	38.8	24.4	14.9	18.5	30.2	34.7	37.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939507
 CATALOG NUMBER: GALN-SB2A-850-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
952.4	0°	952.4	952.4	952.4	952.4	952.4	952.4	952.4	952.4	952.4	952.4
952.9	2.5°	953.3	956.5	958.7	961.4	963.2	965.9	971.4	974.5	975.0	977.2
960.1	5°	961.9	966.4	971.4	978.6	986.7	993.5	1003.8	1011.1	1013.8	1016.0
977.7	7.5°	980.4	986.7	995.7	1008.4	1020.1	1029.1	1041.7	1050.3	1058.9	1062.0
1005.6	10°	1007.9	1016.9	1030.0	1047.2	1059.8	1071.5	1084.6	1091.8	1100.4	1104.0
1039.0	12.5°	1042.2	1051.7	1068.8	1092.7	1104.5	1112.6	1117.1	1115.3	1117.1	1120.2
1079.2	15°	1081.4	1091.8	1111.2	1136.9	1145.1	1137.8	1127.9	1118.9	1117.5	1118.4
1127.9	17.5°	1127.9	1135.6	1158.1	1179.8	1173.9	1144.2	1122.5	1108.1	1100.8	1098.6
1190.2	20°	1192.9	1192.9	1211.4	1224.9	1185.7	1135.1	1101.3	1077.8	1062.9	1056.6
1275.0	22.5°	1271.8	1264.6	1276.3	1266.9	1183.4	1109.9	1062.9	1022.3	999.8	990.8
1393.7	25°	1372.0	1363.4	1360.3	1301.6	1167.2	1069.7	993.5	944.3	924.4	919.5
1564.6	27.5°	1523.1	1501.5	1460.4	1320.6	1137.4	1006.6	912.3	866.7	855.4	855.9
1784.4	30°	1724.4	1681.0	1580.4	1323.7	1088.7	917.2	829.2	796.8	791.3	793.6
1968.9	32.5°	1910.7	1869.6	1703.2	1309.3	1013.8	829.7	754.8	733.1	725.0	727.7
2109.7	35°	2056.9	2045.6	1816.8	1289.0	921.7	747.6	688.0	669.5	653.7	650.1
2242.3	37.5°	2194.9	2190.4	1902.1	1260.6	830.6	689.4	634.3	610.0	587.0	574.3
2388.9	40°	2346.5	2342.0	1958.1	1216.8	749.8	638.9	586.1	554.0	525.6	502.6
2555.0	42.5°	2517.1	2490.4	1984.7	1154.1	681.3	596.0	546.8	503.5	466.1	444.8
2742.6	45°	2703.4	2643.4	1984.2	1074.2	623.5	556.7	504.9	443.5	408.8	388.9
2935.3	47.5°	2901.0	2789.6	1959.9	985.8	567.6	513.4	439.9	393.0	370.0	357.8
3144.6	50°	3104.9	2926.3	1918.4	884.3	510.3	464.2	399.3	367.2	349.7	338.4
3352.2	52.5°	3296.7	3050.3	1868.3	769.2	452.1	416.4	381.2	356.4	337.9	325.3
3553.4	55°	3474.9	3157.3	1797.4	651.5	404.7	384.4	372.7	351.9	330.7	315.8
3757.8	57.5°	3633.2	3226.7	1675.2	540.9	370.9	362.3	363.6	344.2	319.9	307.2
3959.0	60°	3765.0	3277.7	1494.3	438.5	343.3	340.6	349.7	329.8	301.4	286.9
4129.1	62.5°	3843.9	3276.8	1272.3	359.1	319.9	320.8	331.2	311.8	282.9	269.3
4218.0	65°	3837.2	3196.5	1028.7	307.2	297.3	298.2	311.8	291.9	267.5	259.4
4173.3	67.5°	3701.4	3000.7	789.1	273.4	272.5	276.6	292.4	278.4	258.1	257.2
3907.1	70°	3333.7	2594.2	568.5	246.3	246.8	252.7	273.4	269.8	253.1	254.9
3284.9	72.5°	2673.2	1977.9	381.7	217.9	218.4	227.8	255.4	263.0	248.1	272.1
2330.7	75°	1780.3	1233.5	245.4	187.7	188.1	200.3	239.6	249.9	234.6	271.2
1212.7	77.5°	855.4	554.5	177.8	157.9	157.9	169.2	207.1	223.8	199.9	210.7
389.8	80°	295.5	208.4	139.9	127.2	124.5	132.2	174.6	194.0	172.3	158.8
127.2	82.5°	116.4	108.3	112.3	98.8	89.8	94.7	135.8	160.2	126.8	114.6
71.7	85°	66.8	70.4	79.4	65.4	51.9	58.2	99.7	115.0	95.6	84.4
23.5	87.5°	18.0	24.8	36.5	33.8	23.5	24.8	47.4	63.6	55.0	42.4
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>
952.4
976.8
1015.6
1062.5
1105.8
1121.1
1121.6
1101.7
1055.3
989.4
920.4
857.2
801.3
731.3
652.8
574.8
504.9
446.2
388.0
355.1
334.3
319.9
310.0
299.1
280.6
265.3
259.0
258.5
254.5
275.7
273.4
193.1
148.9
114.1
86.2
43.8
0.0

F REPORT)