

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: P946252

Luminaire Tested: **GALN-SB1D-950-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-950-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5412 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

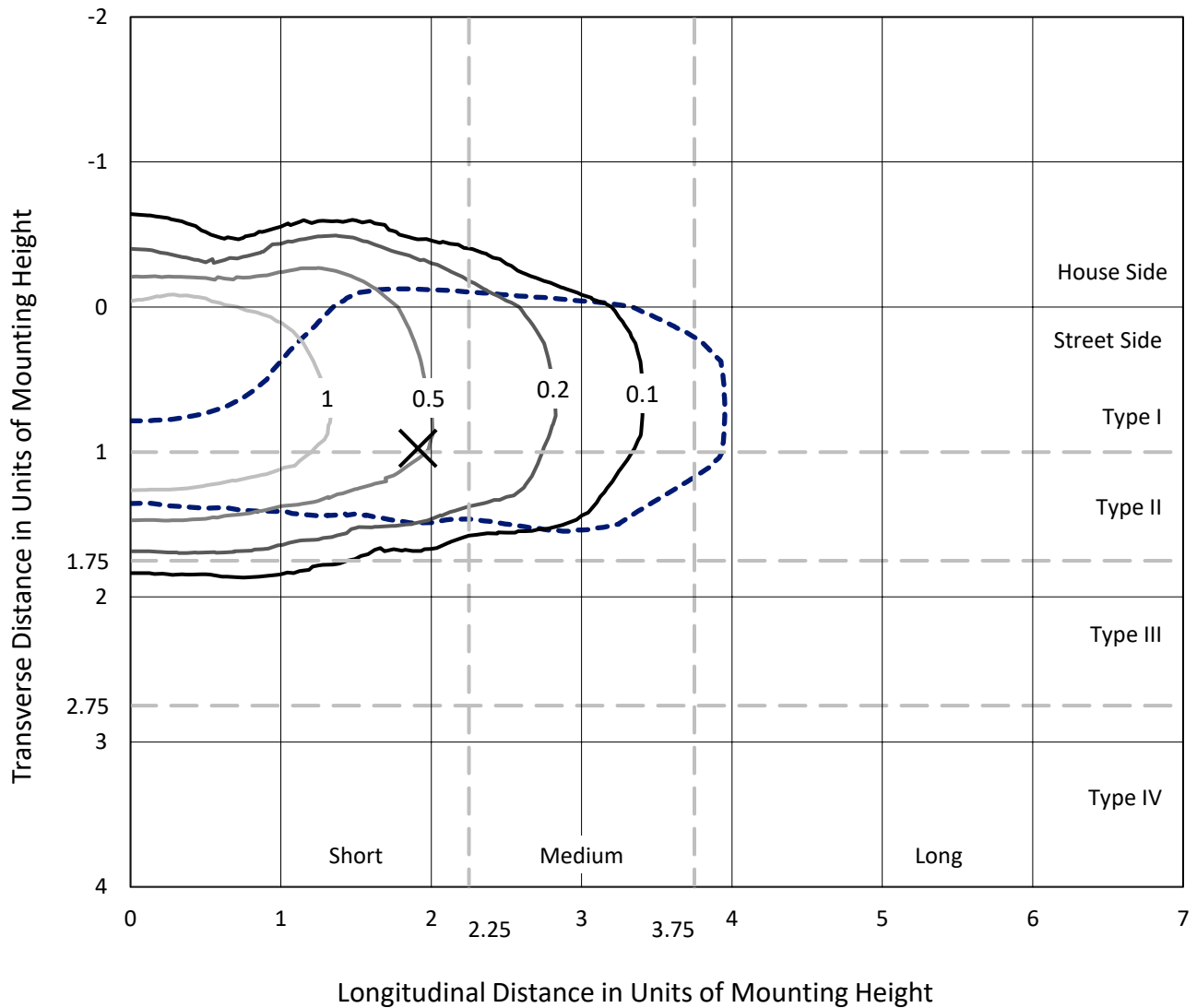
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946252
 CATALOG NUMBER: GALN-SB1D-950-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

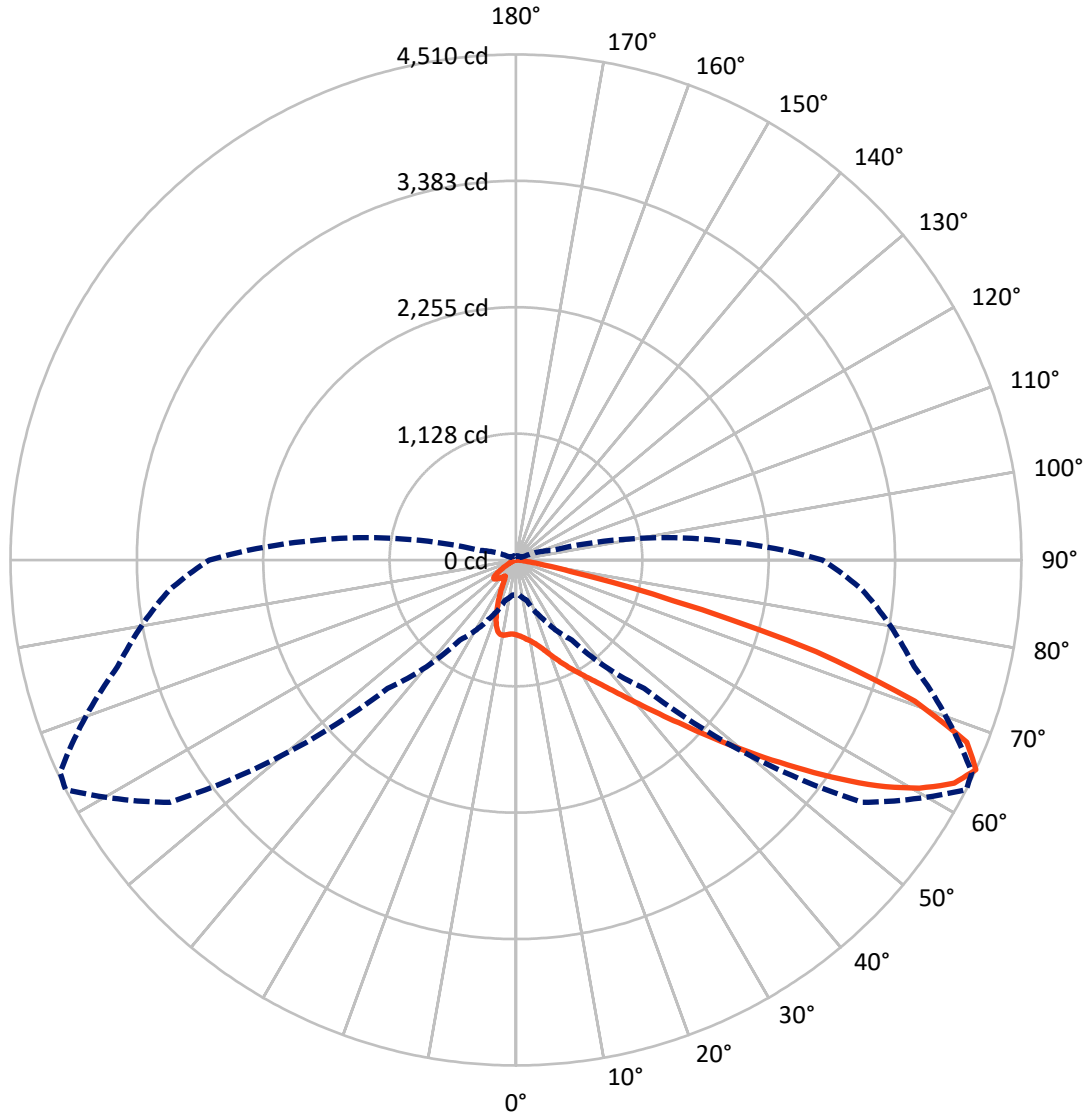
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

REPORT NUMBER: P946252
CATALOG NUMBER: GALN-SB1D-950-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P946252
 CATALOG NUMBER: GALN-SB1D-950-U-T2U-HSS

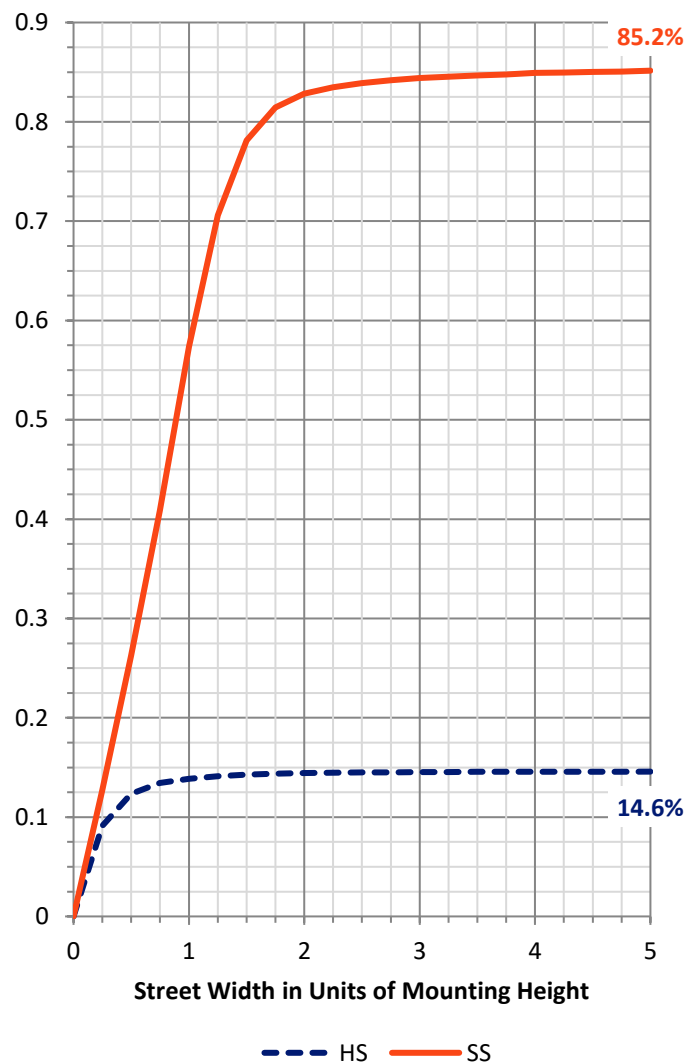
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	795.5	0.0	795.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4616.5	0.0	4616.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	5412.0	0.0	5412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	1.2
10°-20°	174.6	3.2
20°-30°	304.0	5.6
30°-40°	548.0	10.1
40°-50°	1086.9	20.1
50°-60°	1480.5	27.4
60°-70°	1181.8	21.8
70°-80°	534.8	9.9
80°-90°	38.4	0.7
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°	5412.0	100.0
0°-180°	5412.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946252

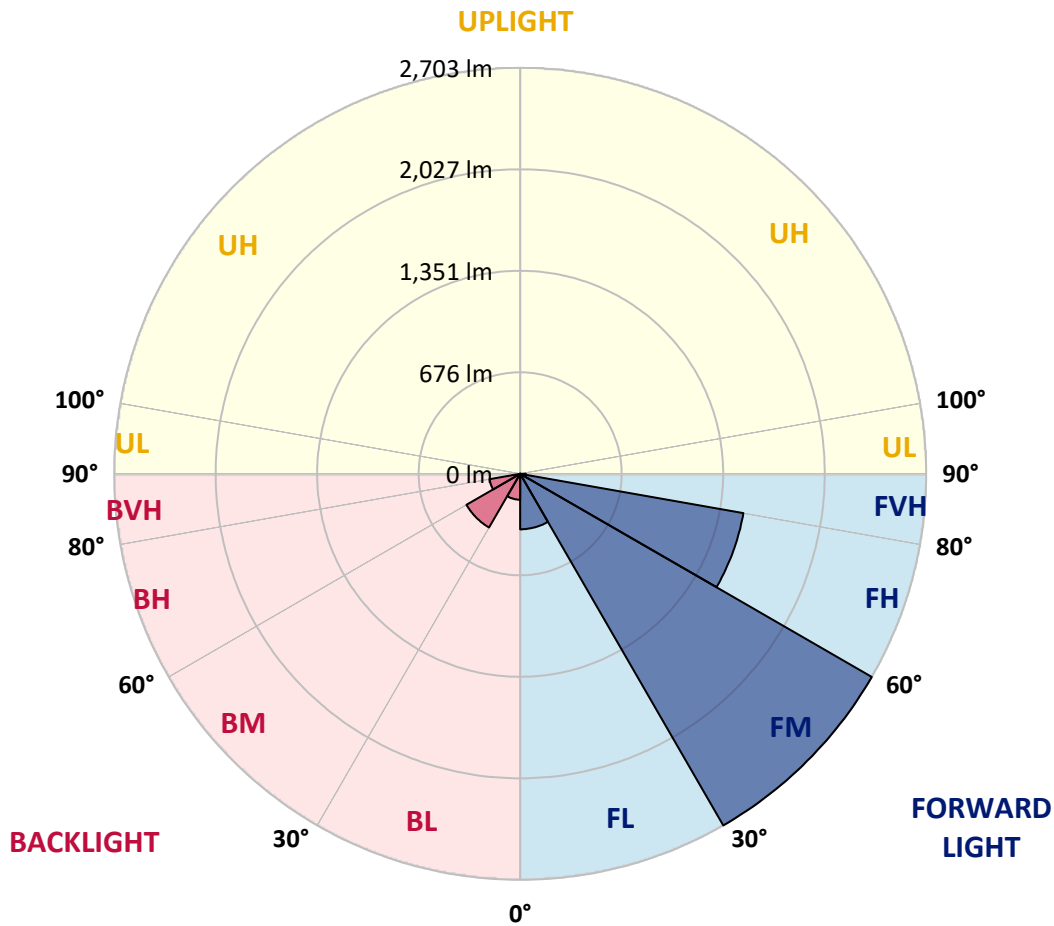
CATALOG NUMBER: GALN-SB1D-950-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	369.4	6.8			
FM (30°-60°)	2702.6	49.9			
FH (60°-80°)	1508.8	27.9			G1/1800
FVH (80°-90°)	35.6	0.7			G1/100
BL (0°-30°)	172.2	3.2	B1/500		
BM (30°-60°)	412.8	7.6	B1/1000		
BH (60°-80°)	207.7	3.8	B1/500		G1/500
BVH (80°-90°)	2.9	0.1			G0/10
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 Short



REPORT NUMBER: P946252

CATALOG NUMBER: GALN-SB1D-950-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9
2.5°	683.6	681.7	684.3	683.2	682.5	681.0	680.2	679.5	678.0	676.9
5°	685.4	684.3	686.9	689.2	691.4	693.6	694.8	696.2	694.8	691.8
7.5°	669.8	669.1	674.6	681.3	691.4	700.0	709.3	714.5	714.9	713.7
10°	668.7	666.8	672.4	680.6	693.6	708.9	725.3	736.5	737.9	742.8
12.5°	686.2	684.3	692.1	701.1	714.5	730.5	750.6	766.2	768.5	775.2
15°	715.6	713.0	721.9	733.5	750.6	768.8	790.1	804.2	806.1	814.3
17.5°	749.9	747.2	757.7	770.0	788.6	813.5	838.1	853.7	856.0	861.2
20°	793.8	790.4	798.6	809.8	829.5	859.3	888.7	911.1	910.7	910.7
22.5°	844.8	839.6	846.7	855.6	874.2	910.3	949.4	975.9	975.9	965.4
25°	899.5	894.3	902.1	910.3	926.7	967.7	1013.5	1046.2	1047.7	1029.8
27.5°	968.0	961.3	967.3	977.0	986.6	1028.3	1082.7	1120.7	1121.4	1093.9
30°	1099.8	1080.8	1062.2	1051.8	1056.3	1097.6	1155.7	1197.8	1201.5	1163.5
32.5°	1341.1	1337.4	1271.8	1186.2	1141.5	1172.1	1237.2	1287.9	1290.1	1241.3
35°	1716.0	1711.6	1606.2	1443.1	1297.5	1271.8	1336.3	1396.2	1394.7	1339.6
37.5°	2163.6	2159.5	2020.6	1802.4	1566.7	1422.6	1464.0	1526.9	1536.2	1464.0
40°	2545.9	2530.7	2442.8	2232.4	1924.2	1672.8	1645.7	1687.4	1697.0	1611.4
42.5°	2835.6	2822.6	2777.9	2646.5	2356.8	2042.9	1859.7	1875.8	1886.5	1783.8
45°	2985.6	2982.7	3000.5	2988.2	2797.6	2497.2	2165.8	2099.1	2103.2	1974.8
47.5°	3006.9	3005.4	3086.9	3202.3	3176.6	3009.5	2558.6	2377.6	2363.1	2190.4
50°	2881.8	2878.8	3035.2	3251.5	3429.8	3439.9	3004.6	2691.5	2659.5	2413.4
52.5°	2482.3	2481.5	2738.4	3098.5	3518.8	3816.7	3445.5	3036.3	2982.7	2649.4
55°	1910.0	1923.8	2218.3	2643.8	3356.5	3998.0	3841.2	3419.0	3336.7	2887.0
57.5°	1353.0	1373.1	1664.3	2043.3	2853.1	3890.7	4108.9	3802.5	3713.9	3123.8
60°	726.8	744.6	1036.2	1488.5	2122.6	3490.9	4250.0	4135.4	4051.6	3348.7
62.5°	433.0	439.0	559.6	961.0	1435.7	2666.9	4190.1	4388.9	4320.0	3537.4
65°	310.9	312.0	372.7	586.8	871.6	1620.3	3769.7	4510.3	4489.1	3679.6
67.5°	261.7	261.0	286.3	389.8	593.9	811.7	2889.2	4338.7	4428.8	3769.7
70°	224.5	225.6	255.4	285.6	446.4	459.4	1436.4	3777.6	3969.7	3793.6
72.5°	167.2	170.9	198.4	260.3	337.0	316.1	495.9	2801.0	3148.3	3574.3
75°	118.0	119.9	139.6	218.9	251.3	230.1	253.2	1448.0	1893.2	2740.3
77.5°	90.8	94.2	105.7	153.0	247.6	161.6	154.9	501.1	770.0	1655.3
80°	49.1	55.1	76.3	110.6	173.9	114.3	76.7	199.6	261.0	774.1
82.5°	25.3	28.3	53.2	79.7	99.0	99.8	38.0	83.0	107.6	239.0
85°	10.1	12.3	35.7	43.9	51.0	49.1	17.1	33.5	38.7	66.3
87.5°	2.2	3.7	13.0	10.1	9.7	10.4	4.1	7.8	7.4	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946252
 CATALOG NUMBER: GALN-SB1D-950-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
667.9	0°	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9
672.4	2.5°	672.0	670.5	666.5	662.0	656.8	653.8	651.9	651.6	649.0	647.1
687.3	5°	683.2	681.7	673.9	664.6	654.5	646.7	639.3	632.6	622.9	621.0
708.9	7.5°	705.5	701.5	688.8	676.1	657.1	634.4	606.9	575.2	546.9	538.4
737.6	10°	733.1	727.5	711.5	689.2	647.1	585.3	518.6	456.8	407.7	393.9
771.4	12.5°	764.4	759.5	738.3	697.0	605.0	493.0	390.9	314.2	266.6	254.7
807.6	15°	801.6	794.5	765.1	685.1	529.8	374.6	268.4	223.0	205.9	203.7
848.9	17.5°	841.1	829.5	788.9	642.3	428.5	266.2	207.4	194.4	186.9	184.7
890.6	20°	877.2	862.3	803.1	577.5	320.2	207.4	185.8	177.2	170.5	167.9
932.3	22.5°	913.3	892.1	803.1	489.2	240.1	183.9	170.5	162.7	154.9	151.5
977.0	25°	950.9	922.6	788.9	390.9	193.2	168.7	156.0	147.4	140.7	136.6
1019.4	27.5°	987.4	948.3	756.6	297.9	172.0	155.3	142.6	134.4	128.1	125.1
1065.6	30°	1022.0	973.6	711.1	226.0	158.2	142.2	130.3	123.2	116.9	113.9
1125.5	32.5°	1068.9	1005.6	662.7	185.4	146.3	129.9	119.1	112.4	106.9	104.6
1203.3	35°	1134.1	1052.9	621.0	182.1	136.3	119.9	109.1	102.8	97.2	95.3
1303.9	37.5°	1226.4	1129.2	599.1	204.4	128.1	111.0	100.9	94.2	89.0	87.5
1431.6	40°	1340.4	1232.8	611.0	226.7	122.5	103.1	93.5	86.8	82.3	80.4
1578.3	42.5°	1475.5	1360.5	676.9	243.9	118.8	96.4	86.4	78.9	76.0	75.2
1744.7	45°	1630.8	1500.8	777.8	262.1	112.8	90.1	79.3	73.7	71.5	71.1
1925.6	47.5°	1807.2	1655.0	894.7	284.8	106.9	84.1	73.7	70.0	68.1	67.4
2114.4	50°	1982.2	1810.2	1014.9	297.5	102.0	78.6	69.3	66.3	64.8	64.4
2314.0	52.5°	2165.4	1969.9	1112.1	285.6	97.9	74.1	65.5	63.3	61.8	61.4
2497.9	55°	2340.0	2099.1	1128.9	242.4	89.7	69.6	61.4	60.3	58.5	58.5
2684.4	57.5°	2490.5	2163.9	1010.5	178.0	81.5	62.9	57.3	56.2	54.7	54.4
2852.7	60°	2628.6	2145.3	780.0	119.9	72.6	56.2	52.1	51.4	49.9	48.0
2999.0	62.5°	2706.4	2063.4	533.5	78.2	63.7	49.1	46.2	45.8	42.4	38.7
3107.4	65°	2735.8	1895.1	332.9	57.0	53.2	42.1	39.8	39.1	34.3	30.2
3168.8	67.5°	2710.1	1618.1	167.9	45.1	42.1	35.0	32.8	32.8	29.4	25.7
3165.1	70°	2607.4	1213.0	70.7	36.1	32.4	26.8	26.8	28.3	24.9	20.8
3000.9	72.5°	2384.3	816.1	37.6	27.6	24.2	19.0	22.0	23.1	19.7	15.6
2456.2	75°	1895.5	497.8	26.1	20.5	15.3	13.4	16.8	17.5	13.4	10.4
1684.0	77.5°	1296.4	285.9	17.5	13.0	9.7	7.8	11.5	10.8	7.1	4.8
649.3	80°	569.3	119.1	10.1	6.0	3.7	3.0	4.1	3.0	2.2	1.5
89.0	82.5°	66.6	27.9	3.7	2.2	1.5	0.7	0.4	0.0	0.0	0.0
27.2	85°	13.8	3.4	1.9	0.7	0.4	0.0	0.0	0.0	0.0	0.0
4.8	87.5°	2.6	0.7	0.4	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>
667.9
649.0
620.3
534.3
388.7
251.3
201.4
183.6
166.4
149.7
135.2
125.1
114.3
104.6
95.3
87.1
80.0
75.2
70.7
67.4
64.4
61.4
58.1
54.0
47.7
38.0
29.8
25.3
20.5
15.6
10.1
5.2
1.5
0.0
0.0
0.0
0.0

F REPORT)