

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: P946497

Luminaire Tested: **GALN-SB2A-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
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-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8386 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

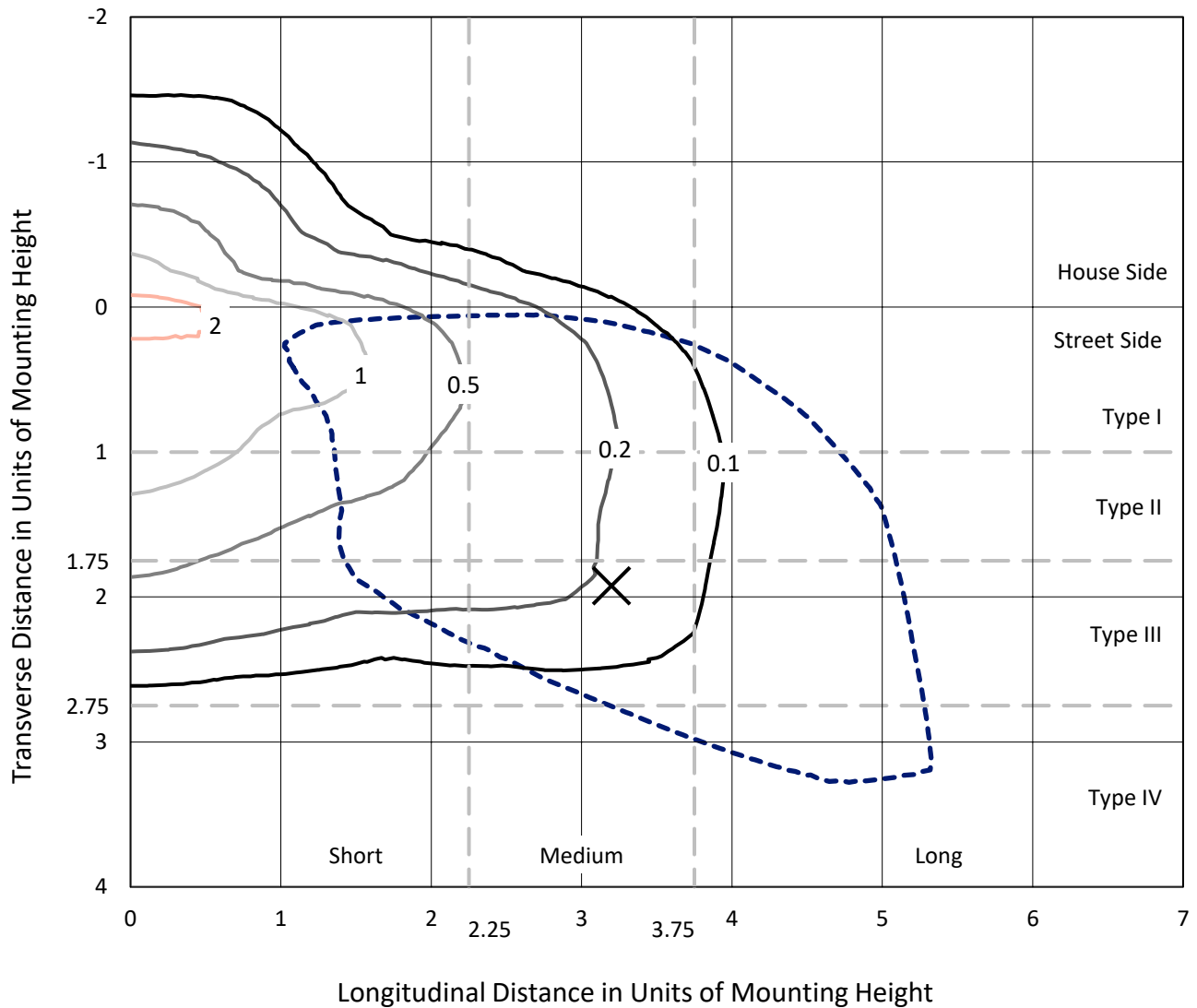
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946497
 CATALOG NUMBER: GALN-SB2A-850-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

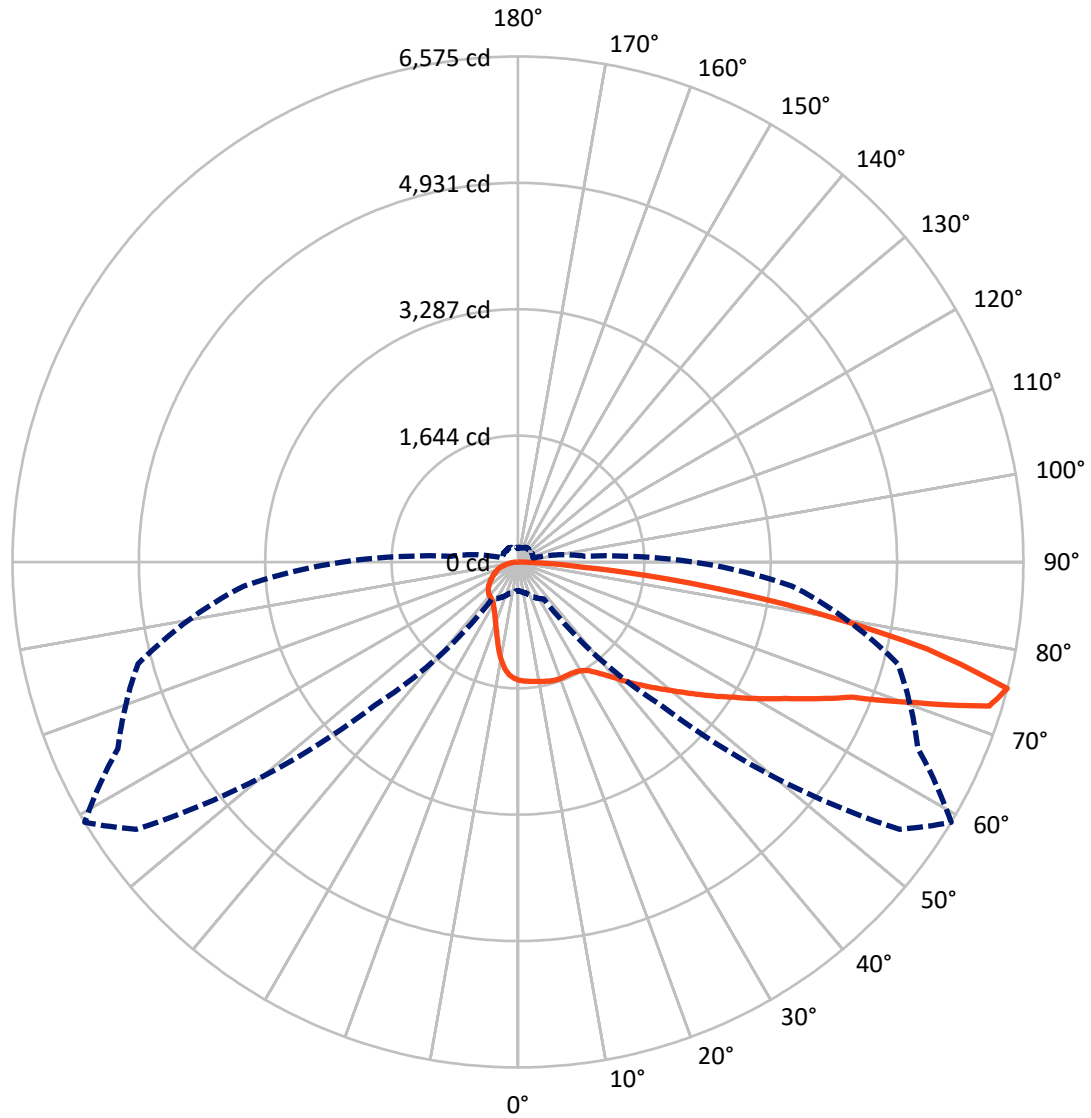
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P946497
CATALOG NUMBER: GALN-SB2A-850-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P946497

CATALOG NUMBER: GALN-SB2A-850-U-SL3

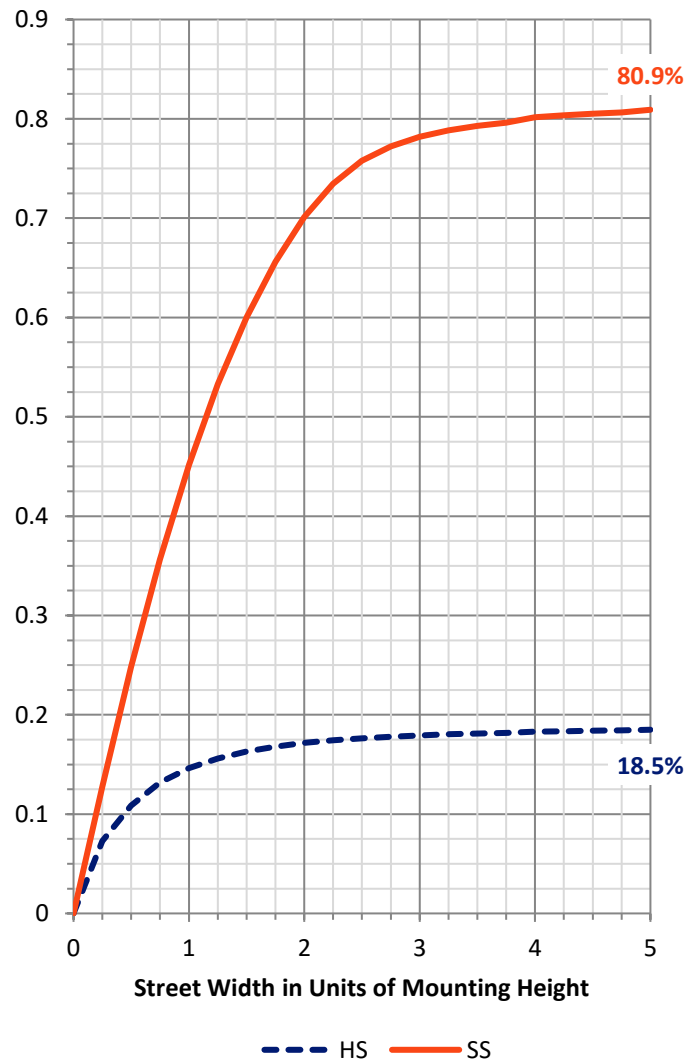
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1572.9	0.0	1572.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6813.1	0.0	6813.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	8386.0	0.0	8386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	1.6
10°-20°	352.8	4.2
20°-30°	535.8	6.4
30°-40°	796.5	9.5
40°-50°	1184.6	14.1
50°-60°	1607.9	19.2
60°-70°	1963.0	23.4
70°-80°	1540.5	18.4
80°-90°	266.9	3.2
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°	8386.0	100.0
0°-180°	8386.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946497

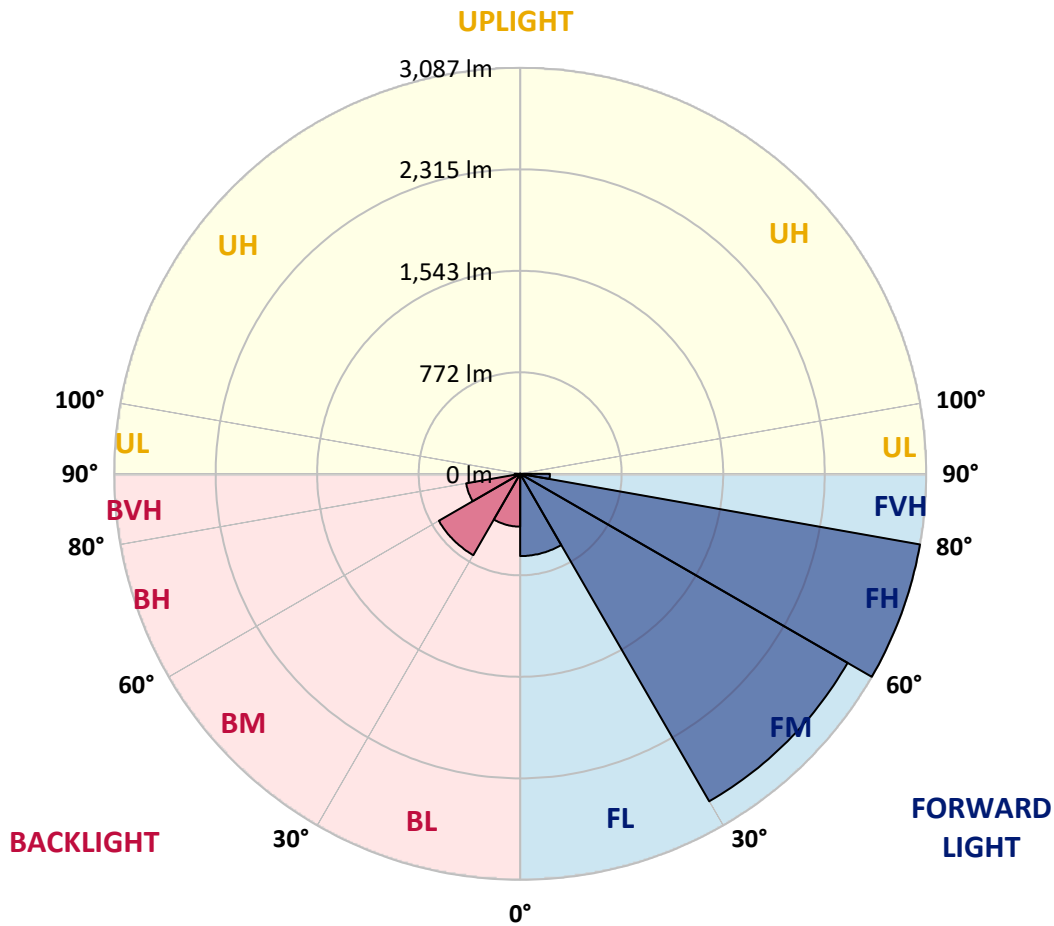
CATALOG NUMBER: GALN-SB2A-850-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	625.3	7.5			
FM (30°-60°)	2875.1	34.3			
FH (60°-80°)	3086.8	36.8			G2/5000
FVH (80°-90°)	226.0	2.7			G3/500
BL (0°-30°)	401.4	4.8	B1/500		
BM (30°-60°)	713.9	8.5	B1/1000		
BH (60°-80°)	416.7	5.0	B1/500		G1/500
BVH (80°-90°)	40.8	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-G3

Type IV Medium



REPORT NUMBER: P946497
 CATALOG NUMBER: GALN-SB2A-850-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2
2.5°	1552.3	1546.9	1552.3	1550.1	1549.2	1547.4	1547.8	1551.0	1549.2	1551.4
5°	1541.9	1538.8	1544.2	1542.8	1548.7	1549.6	1555.5	1559.1	1561.3	1561.8
7.5°	1524.8	1521.6	1529.3	1535.6	1548.3	1551.9	1564.0	1569.9	1573.1	1578.5
10°	1462.1	1460.7	1479.7	1503.6	1533.4	1551.9	1570.4	1580.3	1585.2	1599.7
12.5°	1351.1	1352.9	1377.7	1423.7	1483.3	1542.8	1577.6	1592.0	1599.7	1617.7
15°	1245.1	1244.6	1271.7	1320.9	1404.3	1503.1	1581.2	1606.0	1619.1	1645.7
17.5°	1183.7	1181.9	1200.9	1238.3	1315.9	1442.2	1572.2	1613.7	1641.6	1675.0
20°	1172.5	1168.9	1178.8	1197.3	1252.3	1375.5	1548.7	1613.7	1659.7	1703.0
22.5°	1213.5	1207.7	1203.6	1201.3	1225.7	1320.4	1522.1	1608.3	1686.3	1743.1
25°	1296.1	1287.1	1266.3	1246.0	1238.8	1295.6	1498.6	1606.9	1726.0	1797.3
27.5°	1429.6	1418.3	1376.4	1327.7	1283.9	1308.3	1488.3	1615.0	1769.8	1854.6
30°	1595.2	1583.0	1530.2	1455.3	1376.8	1355.2	1501.3	1638.9	1825.7	1930.8
32.5°	1743.6	1730.1	1684.9	1608.7	1502.7	1436.4	1542.8	1684.5	1913.7	2036.8
35°	1875.3	1859.5	1818.9	1748.6	1657.0	1550.5	1617.7	1765.2	2038.6	2209.1
37.5°	2004.3	1985.8	1941.6	1867.2	1803.1	1702.5	1721.0	1869.0	2204.6	2418.5
40°	2148.7	2122.1	2068.4	1994.9	1932.6	1880.7	1856.8	1996.2	2373.4	2652.2
42.5°	2288.5	2263.3	2199.2	2136.5	2058.5	2043.6	2014.3	2145.1	2557.9	2908.8
45°	2439.2	2409.0	2331.4	2252.0	2202.8	2151.9	2166.7	2294.0	2738.8	3170.5
47.5°	2580.4	2546.6	2455.0	2366.6	2339.5	2243.0	2306.6	2457.7	2926.9	3435.8
50°	2656.7	2623.3	2547.0	2467.2	2446.0	2355.3	2458.2	2637.7	3124.0	3700.1
52.5°	2720.3	2684.2	2584.5	2540.3	2534.0	2477.6	2644.9	2843.4	3321.2	3933.8
55°	2787.9	2747.8	2620.6	2580.9	2609.7	2614.7	2866.4	3076.7	3529.6	4161.6
57.5°	2866.0	2815.0	2655.3	2615.2	2683.7	2775.3	3120.9	3318.5	3734.4	4372.7
60°	2939.5	2888.1	2722.1	2669.7	2763.6	2961.6	3412.7	3611.2	3966.3	4560.9
62.5°	2954.0	2911.5	2775.3	2774.9	2871.8	3179.1	3758.3	3906.7	4168.8	4746.7
65°	2704.0	2677.4	2596.7	2770.8	3027.0	3492.1	4143.1	4284.8	4426.4	4909.1
67.5°	2058.0	2061.6	2055.8	2391.9	2901.6	3941.9	4700.3	4689.4	4744.5	5091.4
70°	941.0	962.2	1100.3	1651.1	2324.6	3993.8	5621.4	5481.1	5143.7	5327.3
72.5°	508.4	524.7	581.0	799.8	1397.6	3550.8	6309.9	6409.6	5674.7	5486.1
75°	373.1	382.1	421.3	508.4	586.9	2639.1	6063.1	6574.7	5741.0	5115.7
77.5°	279.2	283.3	315.3	402.9	300.4	1391.3	4844.6	5445.1	4914.5	4203.1
80°	202.6	207.1	231.0	302.3	210.7	508.9	3326.6	3821.9	3365.8	2679.2
82.5°	139.8	141.7	152.0	205.7	147.1	197.6	1887.5	2241.2	1878.9	940.1
85°	84.4	86.6	91.1	120.0	83.5	93.8	814.7	842.7	561.6	224.7
87.5°	34.7	37.0	40.6	50.5	32.9	26.2	134.4	168.7	105.1	65.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946497
 CATALOG NUMBER: GALN-SB2A-850-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1539.2	0°	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2
1543.7	2.5°	1541.5	1538.3	1529.8	1518.0	1507.2	1493.7	1487.8	1482.8	1478.3	1469.8
1555.9	5°	1551.0	1542.4	1519.4	1489.6	1455.8	1418.8	1382.7	1357.9	1336.7	1320.9
1569.9	7.5°	1565.4	1549.2	1507.2	1446.3	1368.7	1289.3	1217.6	1166.6	1128.3	1114.3
1589.8	10°	1580.3	1560.9	1487.8	1380.4	1246.5	1124.2	1029.0	976.7	946.0	936.1
1613.2	12.5°	1597.9	1569.5	1457.6	1288.9	1109.8	975.8	892.8	862.1	846.3	840.9
1642.1	15°	1623.6	1576.7	1412.0	1174.3	979.4	867.5	813.8	792.6	784.5	784.1
1671.9	17.5°	1643.0	1578.0	1341.2	1051.6	879.2	802.1	757.9	749.8	755.2	763.3
1701.2	20°	1664.6	1565.8	1248.3	939.7	808.9	744.8	726.3	731.7	744.8	756.5
1740.0	22.5°	1680.0	1543.7	1135.9	852.6	748.0	711.9	711.0	722.2	729.5	735.3
1785.5	25°	1693.5	1506.3	1016.8	779.5	697.9	692.0	701.9	698.3	693.4	698.3
1831.1	27.5°	1703.4	1447.2	910.4	715.5	662.7	678.5	672.6	664.5	664.1	666.8
1884.8	30°	1700.3	1368.3	822.8	654.6	637.9	653.2	639.2	637.9	636.5	637.9
1965.5	32.5°	1700.3	1278.5	755.6	612.6	622.1	616.2	614.9	611.7	606.3	605.9
2075.2	35°	1709.8	1188.7	697.9	590.1	609.0	595.0	595.9	588.3	577.0	571.6
2220.4	37.5°	1729.2	1116.5	640.6	579.2	586.0	585.6	581.9	568.9	549.0	531.9
2401.8	40°	1776.1	1095.3	601.3	574.3	575.2	580.6	571.1	545.9	500.7	472.8
2585.8	42.5°	1849.6	1131.0	592.8	562.1	568.0	573.4	554.9	496.2	464.2	447.5
2778.9	45°	1943.0	1193.2	611.3	544.5	550.8	560.3	505.3	477.3	462.9	463.3
2970.2	47.5°	2061.2	1258.6	645.6	529.2	526.0	531.4	472.3	455.2	435.3	440.3
3153.8	50°	2197.9	1324.9	678.0	508.4	498.5	480.9	451.1	434.9	409.6	397.9
3331.1	52.5°	2345.8	1389.0	691.1	483.2	468.7	448.4	436.7	416.8	386.2	366.8
3498.5	55°	2486.1	1447.2	676.7	452.9	438.9	423.2	421.3	409.2	376.2	349.2
3647.3	57.5°	2618.8	1495.9	640.6	422.3	408.7	399.2	411.4	405.6	364.1	329.3
3788.1	60°	2731.1	1529.3	588.3	391.1	381.7	376.7	395.2	393.4	346.9	308.1
3914.4	62.5°	2820.4	1542.4	530.5	361.3	359.1	350.1	372.6	372.6	325.3	287.4
4025.4	65°	2890.3	1529.8	471.9	332.0	336.5	323.0	345.1	342.4	302.3	268.9
4153.0	67.5°	2952.1	1488.3	406.9	303.2	313.5	296.4	316.2	309.9	277.0	250.4
4263.6	70°	2979.7	1391.7	332.9	274.3	286.9	270.2	287.4	275.6	248.6	230.5
4142.2	72.5°	2758.6	1156.7	262.1	244.1	254.9	241.4	256.2	242.7	217.9	209.8
3577.0	75°	2282.2	868.0	201.7	211.1	219.2	208.9	218.8	208.9	186.3	192.2
2642.2	77.5°	1657.4	586.0	154.3	176.4	180.0	174.6	183.2	171.9	151.6	150.2
1316.8	80°	824.2	343.3	120.9	139.4	138.0	134.4	144.4	138.9	121.8	129.0
355.5	82.5°	238.6	147.1	88.0	97.9	95.2	96.1	103.3	106.0	158.8	157.4
110.5	85°	74.9	57.7	52.8	54.6	51.9	53.2	60.9	120.9	111.9	65.4
34.3	87.5°	19.4	19.8	13.1	14.0	14.4	17.1	19.4	73.5	35.2	23.0
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>
1539.2
1465.7
1307.8
1089.9
920.7
842.2
785.9
766.5
760.6
738.5
701.5
671.3
642.9
611.7
577.0
537.7
476.4
447.5
465.6
452.9
401.0
366.3
349.2
327.5
306.8
286.0
267.1
248.6
226.9
203.0
175.5
143.5
127.7
161.1
70.8
24.4
0.0

F REPORT)