

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: P948210

Luminaire Tested: **GALN-SB3B-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14663 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

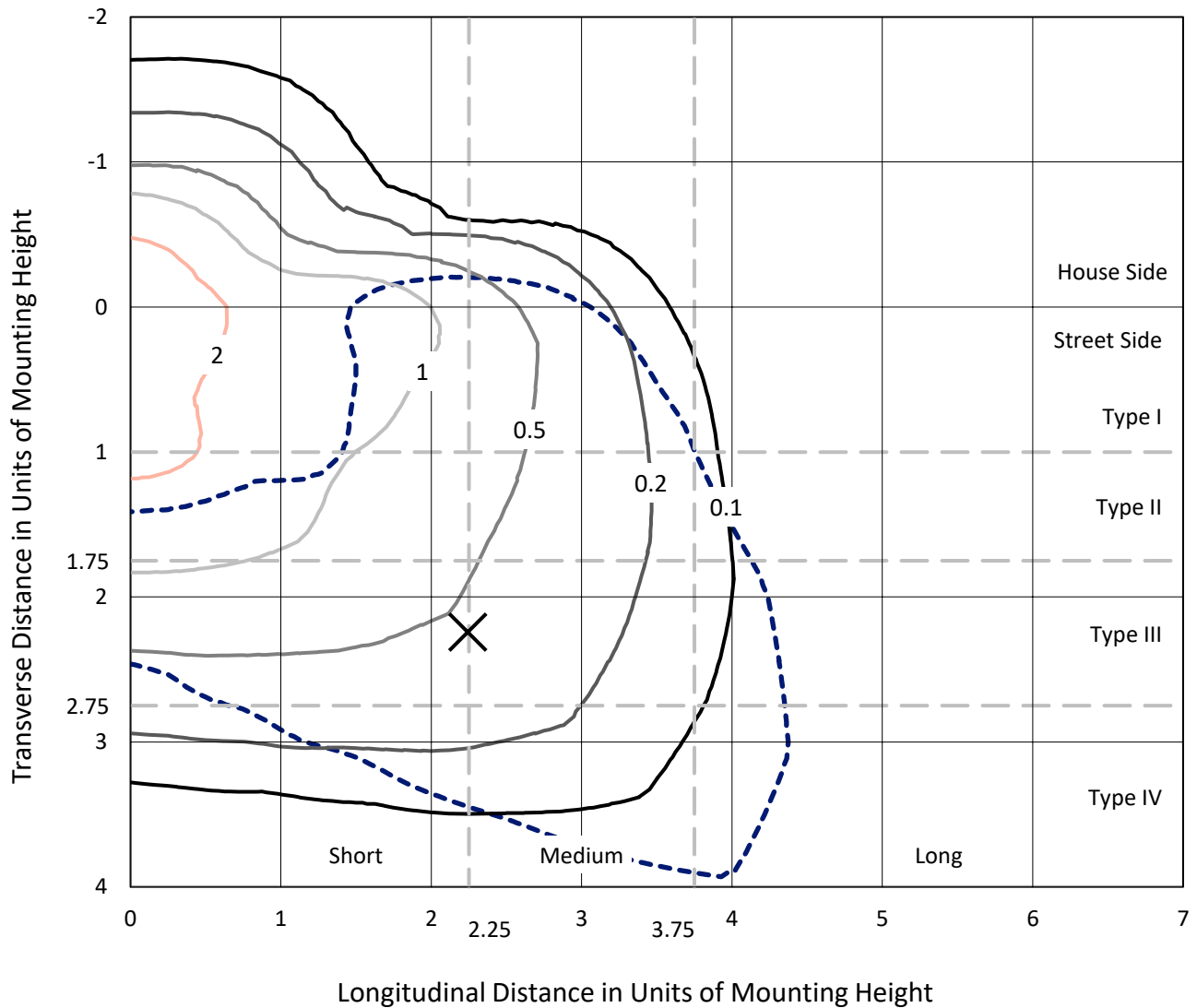
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P948210
 CATALOG NUMBER: GALN-SB3B-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

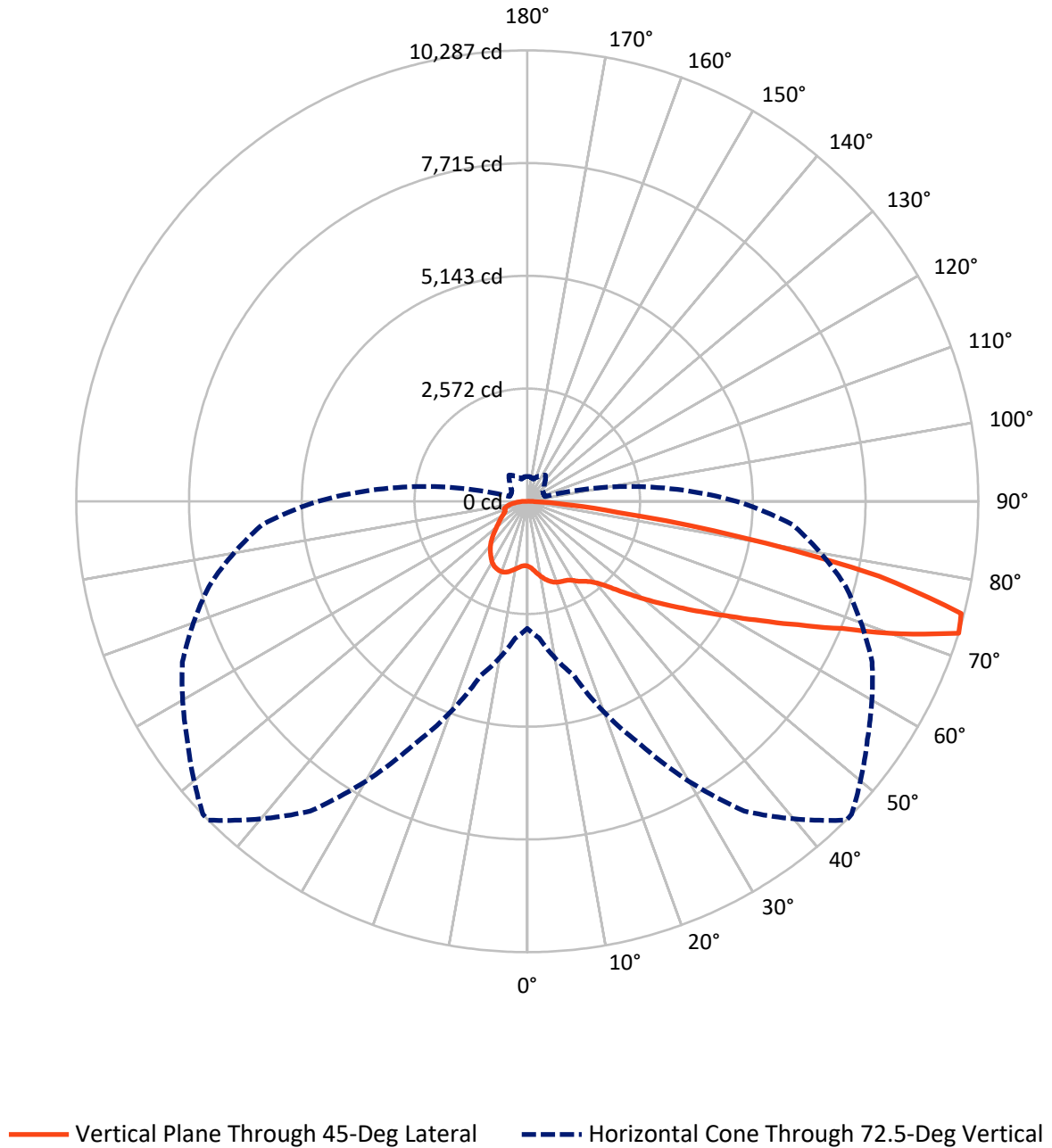
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P948210
CATALOG NUMBER: GALN-SB3B-827-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P948210
 CATALOG NUMBER: GALN-SB3B-827-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3314.8	0.0	3314.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	11348.2	0.0	11348.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	14663.0	0.0	14663.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	1.0
10°-20°	502.0	3.4
20°-30°	873.2	6.0
30°-40°	1251.8	8.5
40°-50°	1762.6	12.0
50°-60°	2699.8	18.4
60°-70°	3911.0	26.7
70°-80°	3123.2	21.3
80°-90°	389.0	2.7
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°	14663.0	100.0
0°-180°	14663.0	100.0



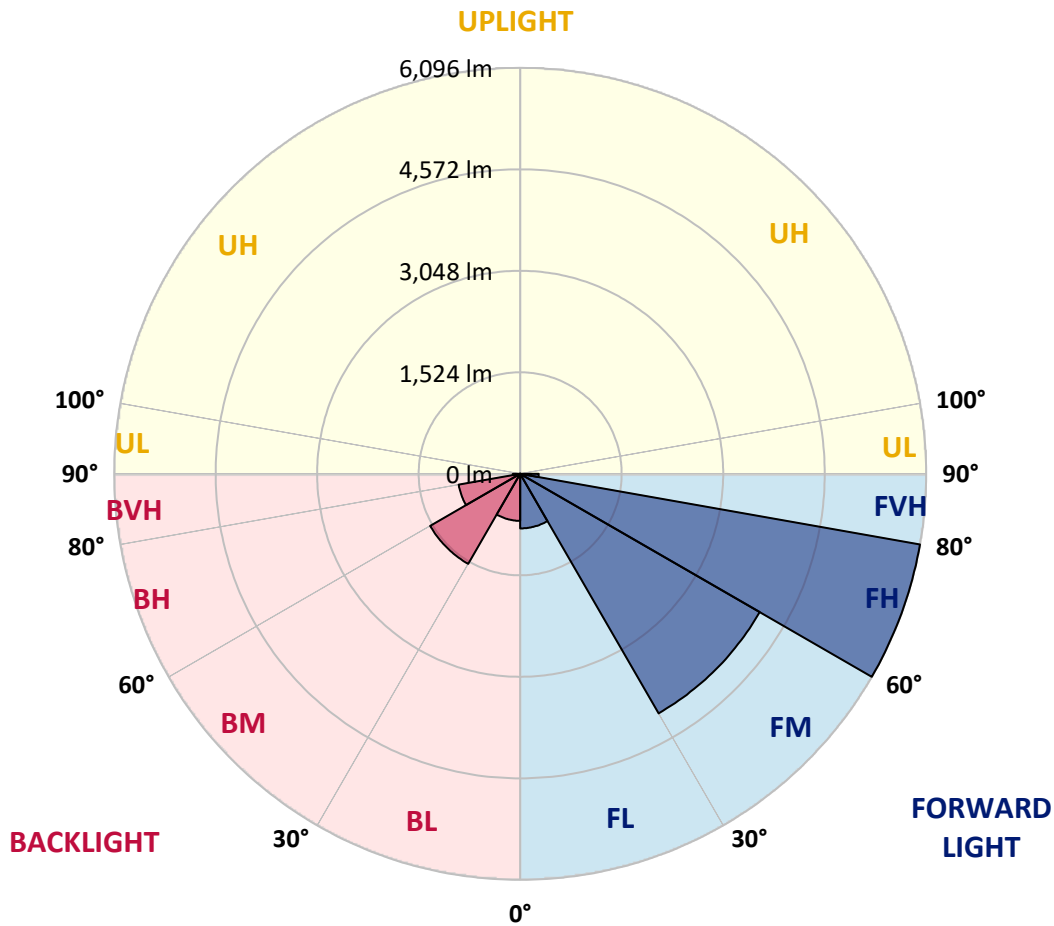
REPORT NUMBER: P948210
 CATALOG NUMBER: GALN-SB3B-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	820.0	5.6			
FM (30°-60°)	4153.3	28.3			
FH (60°-80°)	6095.8	41.6			G3/7500
FVH (80°-90°)	279.1	1.9			G3/500
BL (0°-30°)	705.7	4.8	B2/1000		
BM (30°-60°)	1560.8	10.6	B2/2500		
BH (60°-80°)	938.3	6.4	B2/1000		G2/1000
BVH (80°-90°)	109.9	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



REPORT NUMBER: P948210
 CATALOG NUMBER: GALN-SB3B-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1479.2	1479.2	1479.2	1479.2	1479.2	1479.2	1479.2	1479.2	1479.2	1479.2
2.5°	1537.1	1547.2	1537.9	1529.4	1525.6	1515.5	1514.7	1508.6	1504.7	1493.9
5°	1644.5	1657.6	1642.2	1625.2	1609.8	1585.0	1581.9	1564.2	1544.1	1520.9
7.5°	1765.8	1777.4	1759.6	1734.1	1707.1	1666.1	1665.4	1632.9	1601.3	1561.9
10°	1871.6	1887.1	1863.1	1828.4	1794.4	1748.0	1742.6	1705.5	1665.4	1614.4
12.5°	1965.1	1975.9	1952.7	1910.2	1870.8	1824.5	1817.5	1776.6	1731.8	1673.9
15°	2039.2	2053.1	2022.2	1976.7	1934.9	1889.4	1883.2	1846.1	1801.3	1740.3
17.5°	2087.9	2099.5	2067.8	2016.8	1976.7	1938.8	1934.2	1903.3	1863.9	1802.1
20°	2106.4	2118.8	2085.6	2033.8	1996.7	1967.4	1965.1	1942.7	1915.6	1859.2
22.5°	2125.0	2136.6	2093.3	2039.2	2006.8	1988.2	1987.5	1972.8	1962.0	1915.6
25°	2199.9	2203.0	2145.0	2067.0	2020.7	2004.5	2003.7	2002.9	2007.6	1971.3
27.5°	2264.8	2264.0	2214.6	2141.2	2069.4	2035.4	2034.6	2042.3	2057.0	2026.9
30°	2359.8	2351.3	2292.6	2216.1	2150.5	2097.9	2093.3	2086.3	2097.9	2074.0
32.5°	2561.4	2534.4	2439.3	2303.4	2217.7	2177.5	2171.3	2128.1	2132.7	2118.0
35°	2850.3	2814.7	2688.1	2468.7	2301.1	2243.9	2240.8	2186.0	2176.7	2163.6
37.5°	3194.0	3150.0	3002.5	2708.2	2444.8	2321.2	2316.5	2267.1	2229.2	2215.3
40°	3539.3	3483.7	3361.6	3000.1	2656.4	2450.2	2435.5	2360.6	2317.3	2294.1
42.5°	3874.5	3828.2	3723.9	3327.6	2917.5	2638.6	2606.2	2478.0	2445.5	2423.9
45°	4171.1	4129.4	4053.0	3677.6	3223.4	2895.1	2863.4	2654.1	2644.0	2644.0
47.5°	4412.1	4402.9	4321.8	4034.4	3584.1	3187.1	3132.2	2898.9	2926.0	2967.7
50°	4679.4	4653.9	4567.4	4385.9	4008.2	3521.5	3476.7	3199.4	3300.6	3414.9
52.5°	4925.0	4938.9	4842.4	4752.0	4487.1	3894.6	3815.8	3554.0	3772.6	3961.8
55°	5177.6	5178.4	5151.4	5139.0	4989.2	4307.1	4220.6	3980.4	4327.9	4562.8
57.5°	5414.8	5416.3	5456.5	5565.4	5571.6	4782.9	4684.8	4504.1	4945.1	5184.6
60°	5626.4	5637.2	5746.9	6001.8	6083.7	5328.3	5235.6	5122.8	5583.2	5824.2
62.5°	5697.5	5736.9	5981.0	6343.2	6589.6	5997.2	5906.0	5838.8	6253.6	6477.6
65°	5577.0	5667.3	6139.3	6625.2	7110.3	6792.0	6701.6	6628.3	6950.4	7161.2
67.5°	5281.1	5397.8	6130.0	6921.0	7742.1	7748.3	7664.1	7491.8	7697.3	7778.4
70°	4501.7	4676.3	5590.1	7031.5	8467.4	9056.0	8974.9	8531.5	8442.7	8050.3
72.5°	2900.5	3135.3	4116.3	6122.3	8628.9	10286.5	10281.9	9470.0	8678.3	7522.0
75°	1058.2	1201.9	1912.5	3842.9	7243.1	10223.9	10254.1	9309.4	7922.1	5810.2
77.5°	385.4	421.7	624.1	1476.9	4454.6	8203.3	8265.8	7442.4	5638.8	2915.9
80°	202.4	222.5	319.8	573.1	1908.7	4871.7	4969.8	4423.0	2650.2	878.3
82.5°	112.0	121.3	179.2	311.3	859.7	2083.3	2142.0	1747.2	932.3	372.3
85°	60.2	64.1	84.2	169.9	420.2	722.2	738.4	522.2	371.5	218.6
87.5°	17.8	21.6	27.8	54.1	164.5	162.2	166.1	103.5	146.8	110.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P948210
 CATALOG NUMBER: GALN-SB3B-827-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1479.2	0°	1479.2	1479.2	1479.2	1479.2	1479.2	1479.2	1479.2	1479.2	1479.2	1479.2
1490.8	2.5°	1486.2	1483.8	1475.3	1471.5	1466.9	1466.1	1469.9	1470.7	1471.5	1472.3
1507.8	5°	1500.1	1492.3	1484.6	1480.0	1481.5	1482.3	1490.0	1495.4	1499.3	1502.4
1539.5	7.5°	1527.1	1520.9	1507.8	1507.0	1509.3	1516.3	1526.3	1538.7	1545.6	1551.0
1580.4	10°	1567.3	1555.7	1540.2	1542.6	1547.2	1557.2	1578.1	1588.1	1599.7	1609.8
1630.6	12.5°	1608.2	1598.2	1580.4	1581.9	1589.7	1607.4	1627.5	1639.9	1647.6	1655.3
1684.7	15°	1661.5	1643.7	1624.4	1624.4	1638.3	1657.6	1666.9	1677.0	1681.6	1690.1
1742.6	17.5°	1716.3	1693.2	1667.7	1666.1	1683.1	1692.4	1697.8	1699.4	1700.9	1710.2
1799.0	20°	1771.2	1745.7	1709.4	1706.3	1710.2	1708.6	1707.9	1706.3	1708.6	1720.2
1856.9	22.5°	1825.3	1795.9	1745.7	1731.8	1721.0	1706.3	1705.5	1704.8	1706.3	1717.9
1919.5	25°	1888.6	1853.1	1785.9	1744.2	1707.9	1687.8	1690.1	1690.9	1692.4	1701.7
1984.4	27.5°	1957.3	1918.0	1822.9	1740.3	1674.6	1660.7	1656.9	1659.2	1664.6	1679.3
2049.3	30°	2026.1	1979.7	1856.9	1724.8	1632.9	1613.6	1601.3	1606.7	1623.7	1638.3
2105.7	32.5°	2088.7	2042.3	1884.0	1690.9	1579.6	1549.5	1533.3	1540.2	1557.2	1562.6
2168.2	35°	2162.0	2109.5	1895.6	1636.8	1521.7	1475.3	1453.7	1443.7	1452.2	1446.8
2241.6	37.5°	2243.9	2189.1	1894.0	1565.7	1453.7	1400.4	1370.3	1332.4	1314.7	1296.1
2349.7	40°	2365.2	2286.4	1875.5	1480.0	1369.5	1320.9	1266.8	1202.7	1162.5	1126.2
2524.3	42.5°	2530.5	2421.6	1841.5	1385.7	1274.5	1228.9	1155.6	1080.6	1017.3	957.0
2789.3	45°	2776.9	2598.5	1799.0	1285.3	1171.8	1127.0	1047.4	963.2	891.4	814.1
3165.4	47.5°	3132.2	2836.4	1758.8	1171.0	1063.6	1022.7	950.9	872.9	787.9	713.0
3709.2	50°	3620.4	3177.8	1721.8	1059.8	957.0	926.1	869.0	789.4	703.7	643.4
4346.5	52.5°	4241.4	3642.0	1706.3	952.4	857.4	845.8	800.2	726.1	645.0	594.0
5089.6	55°	4954.4	4197.4	1706.3	849.7	770.1	774.0	742.3	673.6	603.3	557.7
5855.8	57.5°	5682.0	4759.7	1675.4	754.7	696.0	712.2	692.1	631.9	568.5	521.4
6661.5	60°	6352.5	5230.9	1550.3	668.2	630.3	655.8	642.7	590.9	513.7	474.3
7335.0	62.5°	6867.7	5496.6	1309.3	599.4	576.2	605.6	598.6	536.8	503.6	487.4
7888.1	65°	7125.7	5453.4	1001.1	538.4	530.7	576.2	561.6	559.2	533.0	514.4
8068.1	67.5°	6967.4	5081.1	726.1	493.6	504.4	549.2	605.6	614.9	566.2	529.9
7561.4	70°	6272.9	4407.5	540.7	451.1	471.2	550.0	690.6	643.4	555.4	512.9
6064.4	72.5°	4772.1	3286.7	419.4	406.3	427.9	553.8	728.4	630.3	524.5	567.0
3778.0	75°	2729.0	1804.4	336.8	351.5	373.9	517.5	709.1	596.3	500.5	520.6
1497.0	77.5°	1040.5	693.6	278.1	297.4	300.5	451.9	678.2	594.0	476.6	465.0
448.8	80°	360.7	271.1	230.2	236.4	232.5	401.7	650.4	516.8	390.1	349.1
185.4	82.5°	147.5	135.2	182.3	174.6	165.3	312.1	525.3	422.5	319.0	281.9
89.6	85°	64.1	85.7	120.5	105.8	95.8	216.3	421.0	357.6	269.6	232.5
29.4	87.5°	13.1	32.4	51.0	47.9	49.4	144.4	298.9	254.1	190.8	142.9
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>
1479.2
1475.3
1503.9
1552.6
1607.4
1658.4
1693.2
1713.3
1724.8
1725.6
1714.0
1693.9
1654.6
1581.9
1463.8
1307.7
1128.5
951.6
804.9
704.5
639.6
590.1
553.1
513.7
468.1
482.0
508.3
523.7
505.9
562.3
520.6
424.1
337.6
278.8
231.7
112.0
0.0

F REPORT)