

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: P950877

Luminaire Tested: **GALN-SB5A-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950877
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-SB5A-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16388 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

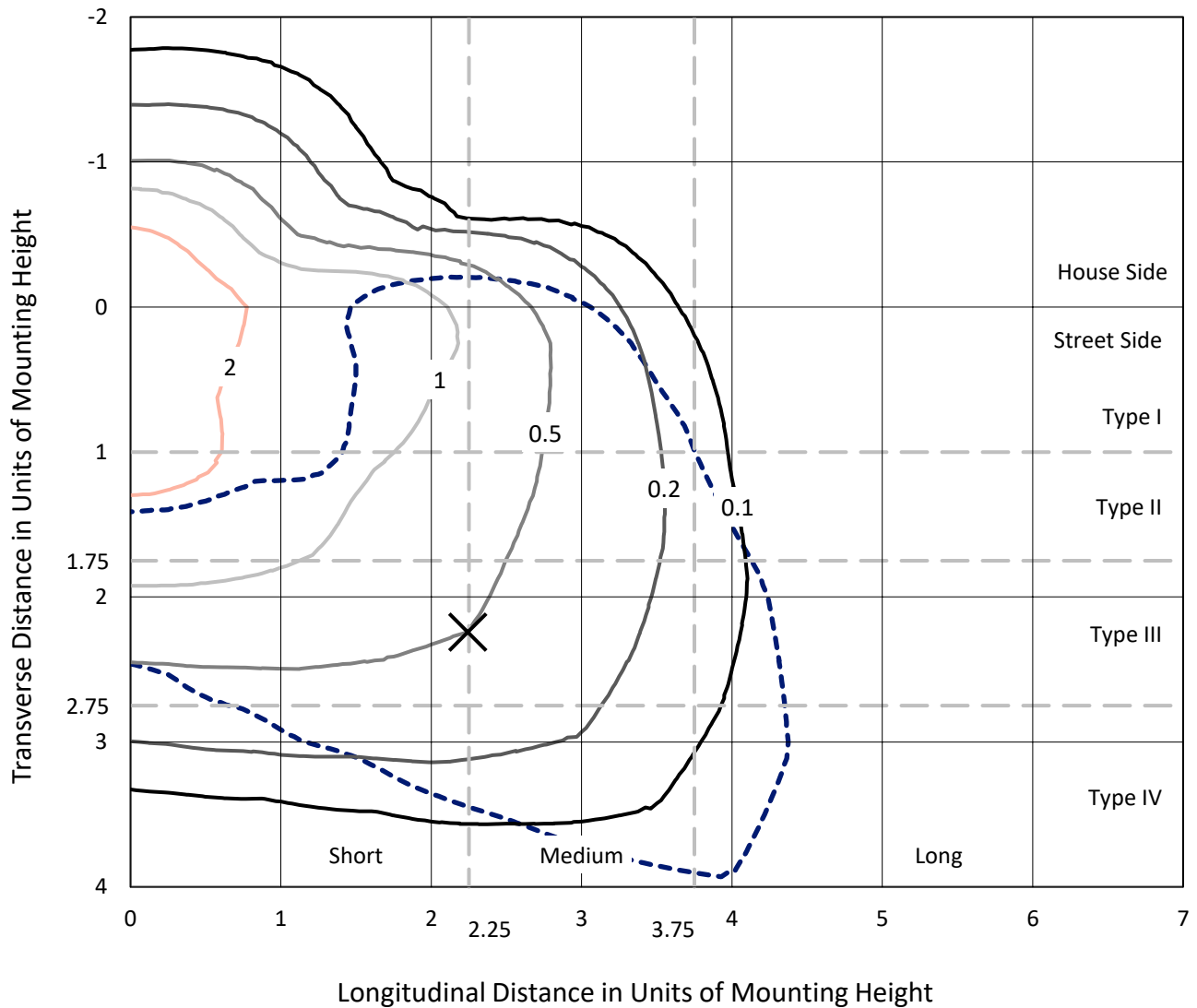
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950877
 CATALOG NUMBER: GALN-SB5A-940-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

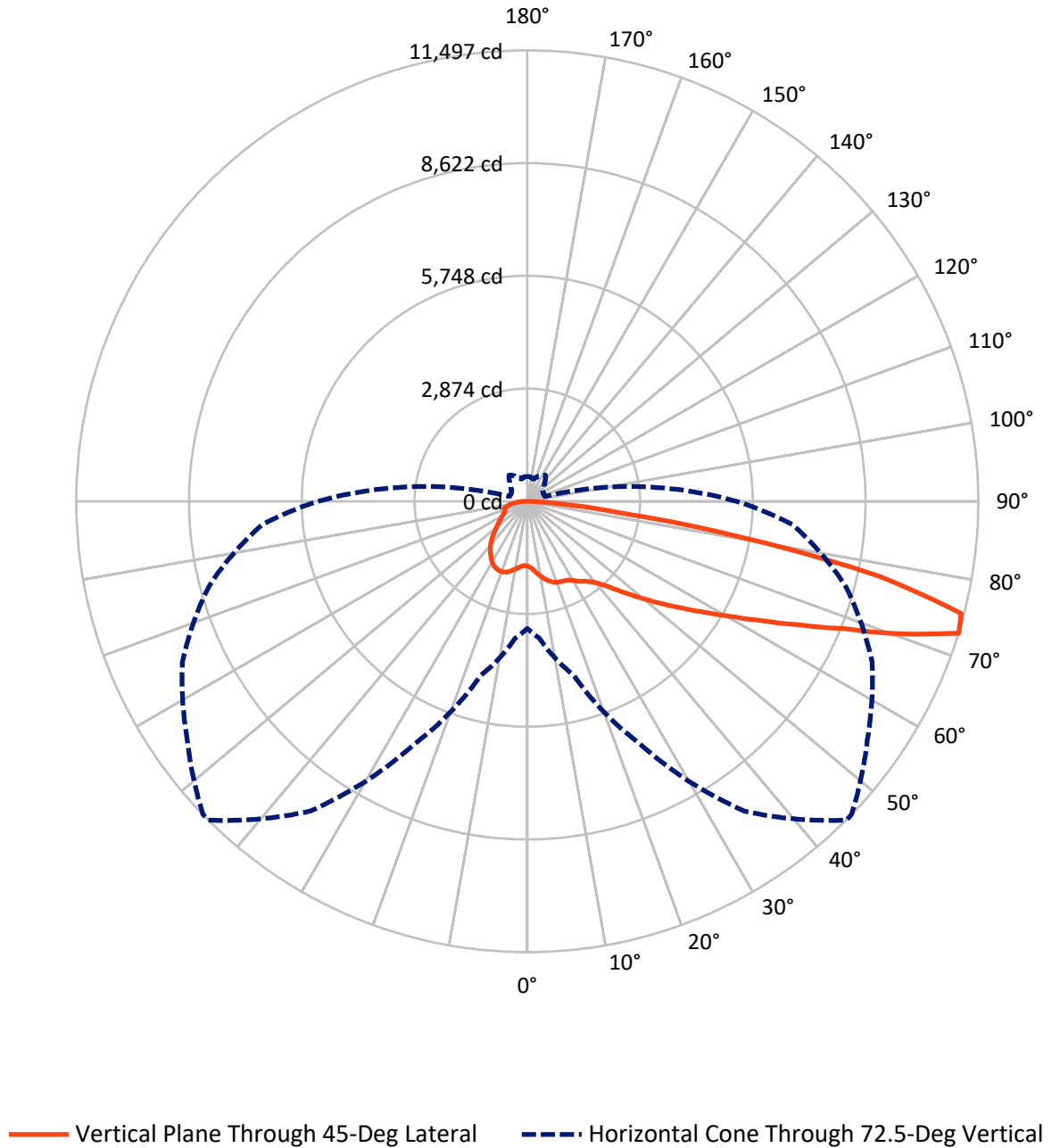
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P950877
CATALOG NUMBER: GALN-SB5A-940-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P950877
 CATALOG NUMBER: GALN-SB5A-940-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3704.8	0.0	3704.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12683.2	0.0	12683.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	16388.0	0.0	16388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	1.0
10°-20°	561.0	3.4
20°-30°	975.9	6.0
30°-40°	1399.0	8.5
40°-50°	1969.9	12.0
50°-60°	3017.4	18.4
60°-70°	4371.1	26.7
70°-80°	3490.6	21.3
80°-90°	434.7	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°	16388.0	100.0
0°-180°	16388.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950877

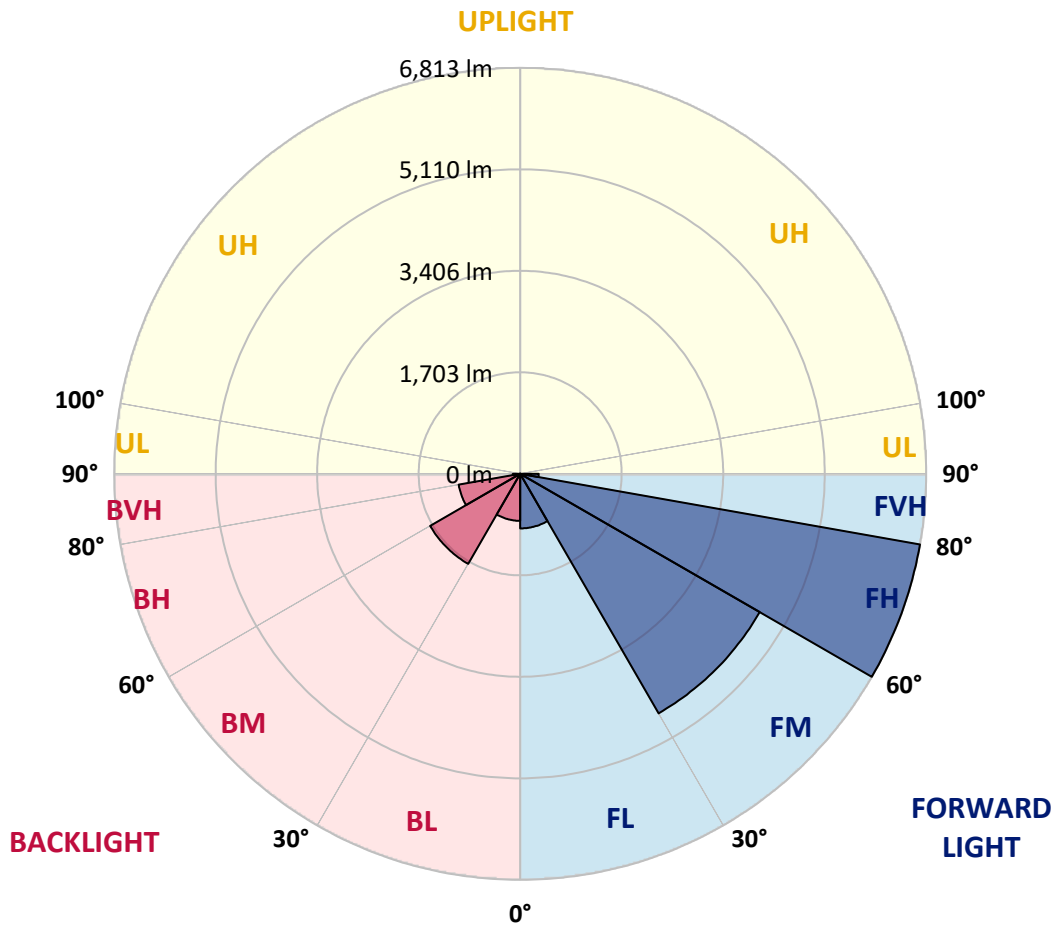
CATALOG NUMBER: GALN-SB5A-940-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	916.4	5.6			
FM (30°-60°)	4641.9	28.3			
FH (60°-80°)	6813.0	41.6			G3/7500
FVH (80°-90°)	311.9	1.9			G3/500
BL (0°-30°)	788.8	4.8	B2/1000		
BM (30°-60°)	1744.4	10.6	B2/2500		
BH (60°-80°)	1048.7	6.4	B3/2500		G3/2500
BVH (80°-90°)	122.8	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



REPORT NUMBER: P950877

CATALOG NUMBER: GALN-SB5A-940-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2
2.5°	1718.0	1729.2	1718.8	1709.3	1705.0	1693.8	1692.9	1686.0	1681.7	1669.6
5°	1838.0	1852.7	1835.4	1816.4	1799.1	1771.5	1768.0	1748.2	1725.7	1699.8
7.5°	1973.5	1986.5	1966.6	1938.1	1907.9	1862.2	1861.3	1825.0	1789.6	1745.6
10°	2091.8	2109.1	2082.3	2043.4	2005.5	1953.7	1947.6	1906.2	1861.3	1804.3
12.5°	2196.2	2208.3	2182.4	2135.0	2090.9	2039.1	2031.4	1985.6	1935.5	1870.8
15°	2279.1	2294.7	2260.1	2209.2	2162.6	2111.6	2104.7	2063.3	2013.2	1945.0
17.5°	2333.5	2346.5	2311.1	2254.1	2209.2	2166.9	2161.7	2127.2	2083.2	2014.1
20°	2354.2	2368.0	2330.9	2273.1	2231.6	2198.8	2196.2	2171.2	2141.0	2078.0
22.5°	2375.0	2387.9	2339.6	2279.1	2242.9	2222.1	2221.3	2204.9	2192.8	2141.0
25°	2458.7	2462.1	2397.4	2310.2	2258.4	2240.3	2239.4	2238.6	2243.7	2203.2
27.5°	2531.2	2530.3	2475.1	2393.1	2312.8	2274.8	2273.9	2282.6	2299.0	2265.3
30°	2637.4	2627.9	2562.3	2476.8	2403.4	2344.7	2339.6	2331.8	2344.7	2318.0
32.5°	2862.7	2832.5	2726.3	2574.4	2478.6	2433.7	2426.8	2378.4	2383.6	2367.2
35°	3185.6	3145.9	3004.3	2759.1	2571.8	2507.9	2504.4	2443.2	2432.8	2418.1
37.5°	3569.8	3520.6	3355.7	3026.7	2732.4	2594.2	2589.1	2533.8	2491.5	2476.0
40°	3955.7	3893.5	3757.1	3353.1	2968.9	2738.4	2722.0	2638.3	2589.9	2564.0
42.5°	4330.3	4278.5	4162.0	3719.1	3260.7	2949.1	2912.8	2769.5	2733.2	2709.1
45°	4661.9	4615.2	4529.8	4110.2	3602.6	3235.7	3200.3	2966.3	2955.1	2955.1
47.5°	4931.2	4920.8	4830.2	4509.0	4005.7	3562.0	3500.7	3240.0	3270.2	3316.8
50°	5229.9	5201.4	5104.7	4901.8	4479.7	3935.8	3885.7	3575.8	3688.9	3816.7
52.5°	5504.4	5520.0	5412.1	5311.1	5014.9	4352.8	4264.7	3972.1	4216.4	4427.9
55°	5786.7	5787.6	5757.4	5743.6	5576.1	4813.8	4717.1	4448.6	4837.1	5099.5
57.5°	6051.8	6053.5	6098.4	6220.1	6227.0	5345.6	5235.9	5033.9	5526.9	5794.5
60°	6288.3	6300.4	6423.0	6707.9	6799.4	5955.1	5851.5	5725.4	6240.0	6509.3
62.5°	6367.7	6411.8	6684.6	7089.5	7364.9	6702.7	6600.8	6525.7	6989.3	7239.7
65°	6233.1	6334.1	6861.6	7404.6	7946.7	7591.0	7490.0	7408.0	7768.0	8003.7
67.5°	5902.4	6032.8	6851.2	7735.2	8652.9	8659.8	8565.7	8373.2	8602.8	8693.5
70°	5031.3	5226.5	6247.7	7858.7	9463.6	10121.4	10030.7	9535.2	9435.9	8997.4
72.5°	3241.7	3504.2	4600.6	6842.6	9644.0	11496.6	11491.5	10584.1	9699.2	8406.9
75°	1182.7	1343.3	2137.5	4294.9	8095.2	11426.7	11460.4	10404.6	8854.1	6493.8
77.5°	430.8	471.4	697.6	1650.6	4978.7	9168.3	9238.2	8317.9	6302.1	3259.0
80°	226.2	248.6	357.4	640.6	2133.2	5444.9	5554.5	4943.3	2962.0	981.6
82.5°	125.2	135.5	200.3	347.9	960.9	2328.3	2393.9	1952.8	1042.0	416.1
85°	67.3	71.7	94.1	189.9	469.6	807.2	825.3	583.6	415.2	244.3
87.5°	19.9	24.2	31.1	60.4	183.9	181.3	185.6	115.7	164.0	123.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950877
 CATALOG NUMBER: GALN-SB5A-940-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1653.2	0°	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2
1666.2	2.5°	1661.0	1658.4	1648.9	1644.6	1639.4	1638.6	1642.9	1643.7	1644.6	1645.5
1685.2	5°	1676.5	1667.9	1659.3	1654.1	1655.8	1656.7	1665.3	1671.4	1675.7	1679.1
1720.6	7.5°	1706.8	1699.8	1685.2	1684.3	1686.9	1694.7	1705.9	1719.7	1727.5	1733.5
1766.3	10°	1751.6	1738.7	1721.4	1724.0	1729.2	1740.4	1763.7	1775.0	1787.9	1799.1
1822.4	12.5°	1797.4	1786.2	1766.3	1768.0	1776.7	1796.5	1819.0	1832.8	1841.4	1850.1
1882.9	15°	1857.0	1837.1	1815.5	1815.5	1831.1	1852.7	1863.0	1874.2	1879.4	1888.9
1947.6	17.5°	1918.3	1892.4	1863.9	1862.2	1881.1	1891.5	1897.5	1899.3	1901.0	1911.4
2010.6	20°	1979.6	1951.1	1910.5	1907.0	1911.4	1909.6	1908.8	1907.0	1909.6	1922.6
2075.4	22.5°	2040.0	2007.2	1951.1	1935.5	1923.4	1907.0	1906.2	1905.3	1907.0	1920.0
2145.3	25°	2110.8	2071.1	1996.0	1949.3	1908.8	1886.3	1888.9	1889.8	1891.5	1901.9
2217.8	27.5°	2187.6	2143.6	2037.4	1945.0	1871.6	1856.1	1851.8	1854.4	1860.4	1876.8
2290.3	30°	2264.5	2212.7	2075.4	1927.8	1825.0	1803.4	1789.6	1795.7	1814.7	1831.1
2353.4	32.5°	2334.4	2282.6	2105.6	1889.8	1765.5	1731.8	1713.7	1721.4	1740.4	1746.5
2423.3	35°	2416.4	2357.7	2118.6	1829.3	1700.7	1648.9	1624.7	1613.5	1623.0	1617.0
2505.3	37.5°	2507.9	2446.6	2116.8	1749.9	1624.7	1565.2	1531.5	1489.2	1469.3	1448.6
2626.2	40°	2643.4	2555.4	2096.1	1654.1	1530.6	1476.3	1415.8	1344.2	1299.3	1258.7
2821.3	42.5°	2828.2	2706.5	2058.1	1548.8	1424.5	1373.5	1291.5	1207.8	1137.0	1069.6
3117.4	45°	3103.6	2904.2	2010.6	1436.5	1309.6	1259.6	1170.6	1076.5	996.3	909.9
3537.8	47.5°	3500.7	3170.1	1965.7	1308.8	1188.8	1143.0	1062.7	975.5	880.6	796.8
4145.6	50°	4046.3	3551.6	1924.3	1184.5	1069.6	1035.1	971.2	882.3	786.5	719.1
4857.8	52.5°	4740.4	4070.5	1907.0	1064.5	958.3	945.3	894.4	811.5	720.9	663.9
5688.3	55°	5537.2	4691.2	1907.0	949.6	860.7	865.0	829.6	752.8	674.2	623.3
6544.7	57.5°	6350.5	5319.7	1872.5	843.4	777.8	796.0	773.5	706.2	635.4	582.7
7445.1	60°	7099.8	5846.3	1732.7	746.8	704.5	732.9	718.3	660.4	574.1	530.1
8198.0	62.5°	7675.7	6143.3	1463.3	669.9	644.0	676.8	669.1	600.0	562.9	544.7
8816.1	65°	7964.0	6094.9	1118.8	601.7	593.1	644.0	627.6	625.0	595.7	575.0
9017.2	67.5°	7787.0	5678.8	811.5	551.7	563.7	613.8	676.8	687.2	632.8	592.2
8450.9	70°	7010.9	4926.0	604.3	504.2	526.6	614.7	771.8	719.1	620.7	573.2
6777.8	72.5°	5333.5	3673.4	468.8	454.1	478.3	619.0	814.1	704.5	586.2	633.7
4222.4	75°	3050.1	2016.7	376.4	392.8	417.8	578.4	792.5	666.5	559.4	581.9
1673.1	77.5°	1162.9	775.2	310.8	332.4	335.8	505.0	758.0	663.9	532.7	519.7
501.6	80°	403.2	303.0	257.3	264.2	259.9	448.9	726.9	577.6	436.0	390.2
207.2	82.5°	164.9	151.1	203.7	195.1	184.7	348.8	587.0	472.2	356.5	315.1
100.1	85°	71.7	95.8	134.7	118.3	107.0	241.7	470.5	399.7	301.3	259.9
32.8	87.5°	14.7	36.3	57.0	53.5	55.3	161.4	334.1	284.0	213.2	159.7
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>
1653.2
1648.9
1680.9
1735.2
1796.5
1853.5
1892.4
1914.8
1927.8
1928.6
1915.7
1893.2
1849.2
1768.0
1636.0
1461.6
1261.3
1063.6
899.6
787.3
714.8
659.6
618.1
574.1
523.2
538.7
568.1
585.3
565.5
628.5
581.9
474.0
377.3
311.7
259.0
125.2
0.0

F REPORT)