

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: P948290

Luminaire Tested: **GALN-SB3B-850-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-850-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16377 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

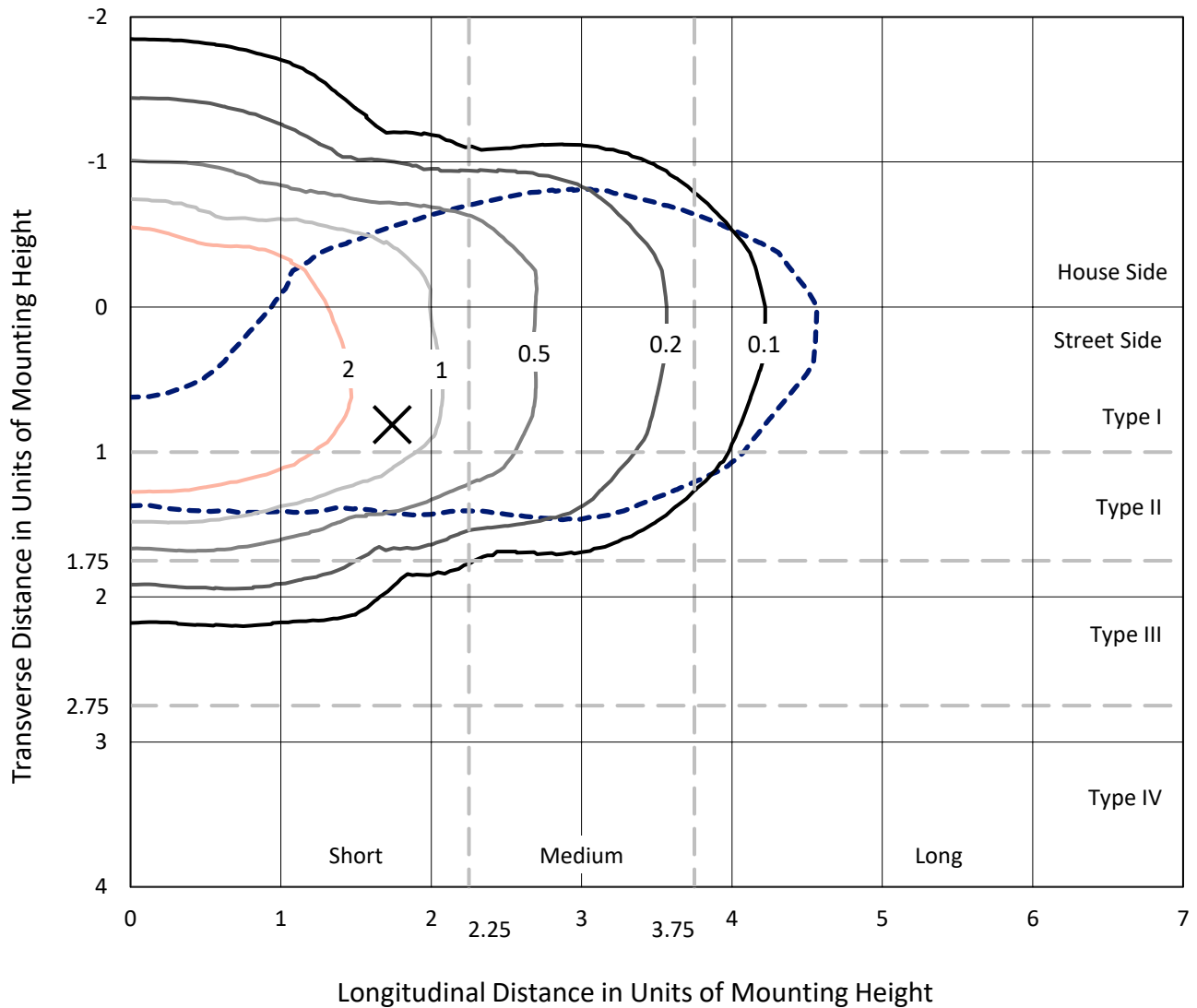
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P948290
 CATALOG NUMBER: GALN-SB3B-850-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

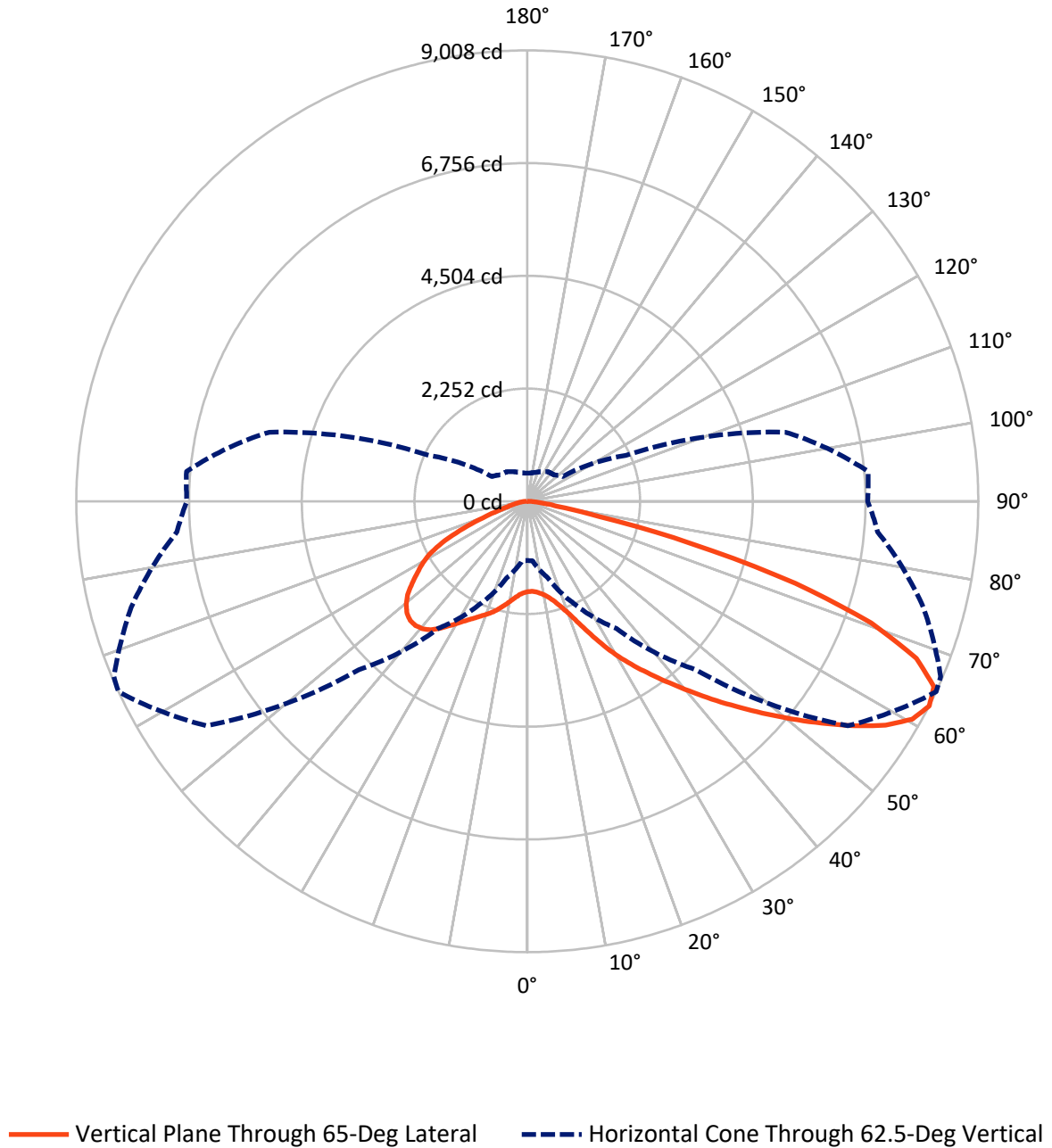
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

REPORT NUMBER: P948290
CATALOG NUMBER: GALN-SB3B-850-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P948290
 CATALOG NUMBER: GALN-SB3B-850-U-T2U

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5167.9	0.0	5167.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	11209.1	0.0	11209.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	16377.0	0.0	16377.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	1.1
10°-20°	610.1	3.7
20°-30°	1237.1	7.6
30°-40°	2140.8	13.1
40°-50°	3239.7	19.8
50°-60°	3798.4	23.2
60°-70°	3184.5	19.4
70°-80°	1758.1	10.7
80°-90°	228.4	1.4
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°	16377.0	100.0
0°-180°	16377.0	100.0



REPORT NUMBER: P948290

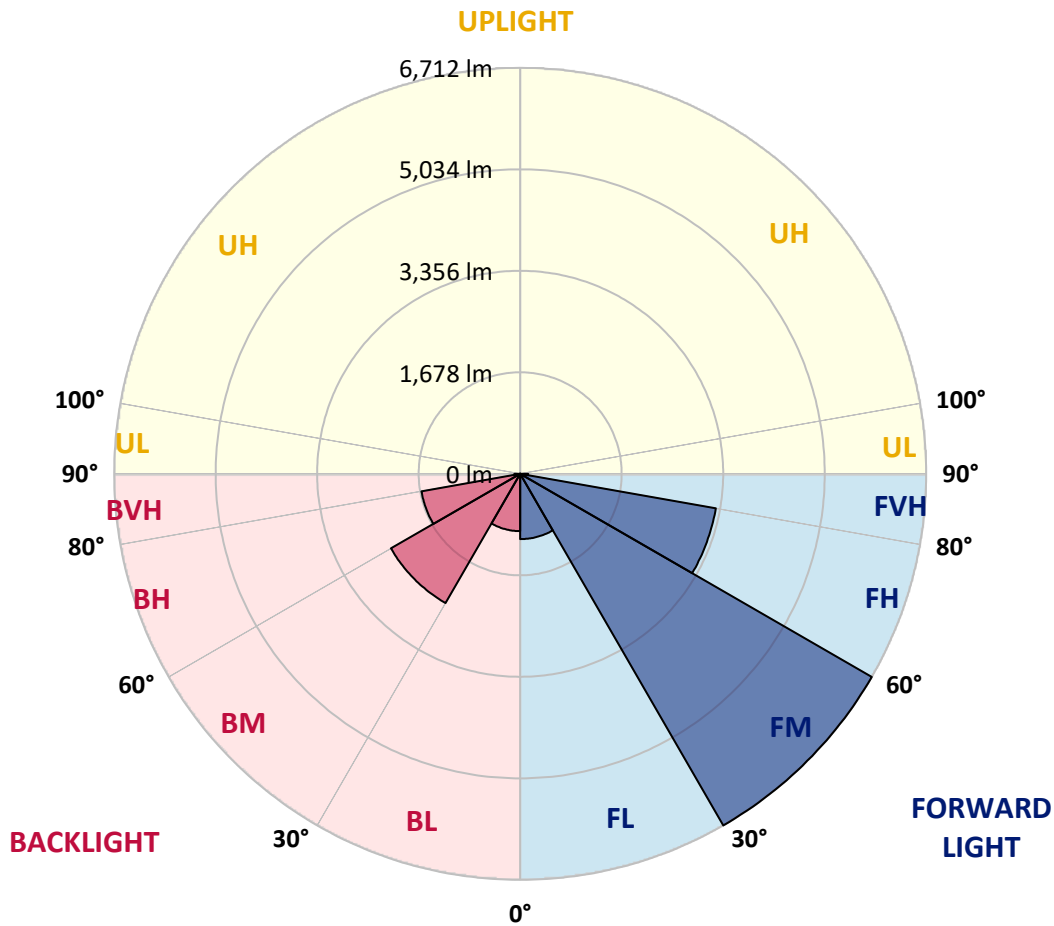
CATALOG NUMBER: GALN-SB3B-850-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1079.5	6.6			
FM (30°-60°)	6711.8	41.0			
FH (60°-80°)	3284.7	20.1			G2/5000
FVH (80°-90°)	133.1	0.8			G2/225
BL (0°-30°)	947.7	5.8	B2/1000		
BM (30°-60°)	2467.1	15.1	B2/2500		
BH (60°-80°)	1657.8	10.1	B3/2500		G3/2500
BVH (80°-90°)	95.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P948290
 CATALOG NUMBER: GALN-SB3B-850-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1804.7	1804.7	1804.7	1804.7	1804.7	1804.7	1804.7	1804.7	1804.7	1804.7
2.5°	1792.8	1787.7	1791.9	1791.9	1793.6	1792.8	1798.7	1800.4	1803.0	1808.1
5°	1774.9	1774.1	1781.7	1788.5	1795.3	1801.3	1808.9	1820.0	1821.7	1827.6
7.5°	1769.0	1763.9	1775.8	1784.3	1800.4	1814.9	1835.3	1854.0	1861.6	1864.2
10°	1814.9	1806.4	1817.4	1822.5	1836.1	1850.6	1874.3	1904.1	1912.6	1922.8
12.5°	1893.0	1883.7	1899.8	1907.5	1920.2	1933.0	1949.1	1978.0	1982.3	2000.9
15°	2000.1	1989.1	1999.2	2008.6	2029.8	2041.7	2057.9	2085.9	2085.9	2100.4
17.5°	2145.4	2130.9	2138.6	2142.0	2155.6	2173.4	2200.6	2225.3	2238.0	2232.9
20°	2362.1	2344.2	2344.2	2327.2	2322.1	2336.6	2372.2	2406.2	2419.8	2393.5
22.5°	2687.5	2662.0	2647.5	2589.8	2566.8	2568.5	2604.2	2645.8	2656.9	2610.2
25°	3101.3	3061.3	3041.8	2956.8	2905.0	2860.0	2888.0	2941.5	2956.8	2899.0
27.5°	3515.0	3517.6	3498.9	3396.9	3311.1	3228.7	3214.3	3270.3	3286.5	3221.1
30°	4095.4	4035.0	3999.3	3877.0	3754.6	3639.1	3579.6	3602.6	3606.8	3528.6
32.5°	4595.8	4580.5	4504.0	4397.0	4239.8	4058.8	3959.4	3922.9	3916.1	3804.8
35°	5165.9	5157.4	5076.7	4949.3	4779.3	4527.8	4348.6	4244.0	4235.5	4079.2
37.5°	5745.4	5745.4	5666.4	5527.0	5351.1	5036.8	4764.0	4598.4	4571.2	4367.2
40°	6207.6	6179.6	6194.0	6135.4	5934.0	5600.1	5225.4	4984.9	4948.4	4703.7
42.5°	6470.1	6460.8	6547.5	6612.9	6530.5	6263.7	5733.5	5403.8	5352.8	5074.2
45°	6528.8	6518.6	6673.2	6912.8	7028.4	6918.8	6285.8	5844.8	5782.8	5461.6
47.5°	6393.7	6373.3	6600.1	6978.2	7348.7	7541.6	6883.9	6323.2	6233.1	5838.9
50°	5987.5	5968.0	6311.3	6813.4	7456.6	7964.7	7533.1	6830.4	6692.8	6243.3
52.5°	5104.7	5114.1	5651.9	6341.9	7314.7	8228.1	8092.1	7364.8	7199.2	6657.1
55°	3976.4	3996.8	4657.8	5417.4	6747.1	8188.2	8473.6	7915.4	7750.6	7046.2
57.5°	2847.2	2937.3	3556.7	4308.6	5657.0	7555.2	8556.9	8438.8	8279.1	7471.0
60°	1845.5	1861.6	2498.8	3256.7	4307.8	6430.2	8387.8	8835.6	8710.7	7904.4
62.5°	1182.7	1193.8	1582.1	2277.9	3100.4	4757.2	7818.6	9008.1	8969.8	8190.7
65°	869.2	860.7	1062.9	1505.6	2088.5	2933.9	6713.2	8924.8	9000.4	8370.0
67.5°	725.6	713.7	813.1	1042.5	1538.7	1666.2	4967.1	8383.6	8660.6	8349.6
70°	661.0	650.8	711.2	774.0	1200.6	1115.6	2503.9	7288.4	7714.9	8117.6
72.5°	559.9	542.1	624.5	687.4	933.8	855.6	1034.9	5598.4	6118.4	7374.2
75°	434.2	422.3	492.8	605.0	701.8	667.8	654.2	3399.5	3967.1	5702.9
77.5°	344.1	328.0	392.5	471.6	631.3	503.8	476.7	1464.0	2026.4	3640.8
80°	259.1	244.7	298.2	373.0	485.2	379.8	308.4	597.3	763.8	1844.6
82.5°	184.4	171.6	208.2	273.6	326.3	340.7	189.5	334.8	376.4	711.2
85°	118.1	110.5	139.3	171.6	207.3	219.2	115.6	175.0	192.0	293.1
87.5°	64.6	52.7	74.8	79.9	96.0	87.5	55.2	63.7	68.8	106.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P948290
 CATALOG NUMBER: GALN-SB3B-850-U-T2U

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1804.7	0°	1804.7	1804.7	1804.7	1804.7	1804.7	1804.7	1804.7	1804.7	1804.7	1804.7
1808.1	2.5°	1811.5	1814.0	1822.5	1825.1	1831.0	1838.7	1843.8	1848.9	1848.9	1854.0
1835.3	5°	1836.1	1842.1	1859.9	1869.2	1884.5	1899.8	1909.2	1920.2	1927.0	1930.4
1878.6	7.5°	1883.7	1893.0	1918.5	1934.7	1961.0	1982.3	1996.7	2012.0	2015.4	2024.7
1938.9	10°	1948.3	1959.3	1988.2	2018.8	2050.2	2076.6	2090.2	2101.2	2105.5	2107.2
2016.2	12.5°	2022.2	2038.3	2075.7	2113.1	2146.2	2169.2	2172.6	2170.0	2158.1	2147.9
2111.4	15°	2113.1	2127.5	2169.2	2210.0	2242.2	2246.5	2225.3	2211.7	2197.2	2194.7
2217.6	17.5°	2221.9	2229.5	2267.7	2307.7	2310.2	2295.8	2264.3	2251.6	2238.0	2228.7
2356.1	20°	2348.5	2345.9	2373.1	2390.1	2372.2	2328.1	2280.5	2259.2	2245.6	2234.6
2526.0	22.5°	2499.7	2480.2	2476.8	2472.5	2424.9	2332.3	2267.7	2240.5	2219.3	2204.0
2763.1	25°	2719.8	2645.0	2593.2	2564.3	2457.2	2309.4	2227.0	2166.6	2126.7	2100.4
3052.8	27.5°	2995.0	2869.3	2738.4	2667.9	2457.2	2262.6	2128.4	2030.7	1965.3	1938.1
3333.2	30°	3257.6	3125.9	2933.0	2792.8	2451.3	2186.2	1969.5	1833.6	1757.1	1729.9
3572.8	32.5°	3481.9	3338.3	3139.5	2929.6	2436.8	2062.1	1772.4	1622.0	1548.1	1515.8
3809.9	35°	3690.1	3537.1	3346.8	3080.0	2398.6	1880.3	1555.7	1441.0	1358.6	1306.8
4051.2	37.5°	3903.3	3721.5	3543.1	3216.0	2329.8	1667.9	1389.2	1291.5	1194.6	1124.9
4307.8	40°	4135.3	3917.8	3752.9	3296.7	2216.8	1465.7	1260.0	1170.8	1068.0	994.1
4603.4	42.5°	4406.3	4153.1	3986.6	3338.3	2062.1	1322.1	1175.9	1088.4	991.6	931.2
4920.4	45°	4689.3	4412.3	4199.9	3337.5	1889.6	1254.9	1148.7	1062.1	955.0	892.1
5245.8	47.5°	4985.8	4683.3	4384.2	3283.1	1740.1	1264.3	1133.4	1005.1	887.0	825.9
5574.6	50°	5283.2	4979.8	4562.7	3181.1	1676.4	1243.9	1076.5	925.3	785.9	730.7
5883.0	52.5°	5578.0	5295.1	4716.5	3035.8	1611.8	1168.3	1003.4	821.6	744.3	706.1
6201.7	55°	5874.5	5606.9	4883.8	2824.3	1450.4	1079.9	881.1	782.5	711.2	676.3
6513.5	57.5°	6171.9	5967.2	5042.7	2612.7	1247.3	971.2	814.0	735.0	678.0	648.3
6774.3	60°	6481.2	6379.2	5206.7	2418.1	1046.8	831.8	764.7	696.7	638.9	605.8
7025.0	62.5°	6799.8	6833.0	5335.0	2167.5	862.4	746.8	720.5	650.8	594.8	563.3
7232.3	65°	7121.0	7270.5	5419.1	1820.0	699.3	666.1	672.9	600.7	543.8	516.6
7384.4	67.5°	7363.1	7585.7	5395.3	1377.3	573.5	589.7	613.5	548.0	494.5	473.3
7359.7	70°	7390.3	7548.4	5160.8	943.1	480.1	514.9	547.2	496.2	441.0	425.7
7013.1	72.5°	7028.4	7038.6	4507.4	616.0	406.1	452.0	477.5	443.5	390.0	374.7
6135.4	75°	6079.3	5821.0	3309.4	406.1	339.9	388.3	412.1	388.3	336.5	339.9
4590.7	77.5°	4606.0	4122.5	2009.4	288.9	283.8	326.3	358.6	341.6	297.4	333.9
2308.5	80°	2373.1	2230.4	896.4	215.8	224.3	260.8	294.8	272.7	235.4	224.3
515.7	82.5°	543.8	632.1	353.5	154.6	162.3	187.8	225.2	204.8	169.1	142.7
215.0	85°	190.3	208.2	156.3	96.9	95.2	117.3	152.9	136.8	114.7	91.8
90.9	87.5°	60.3	79.0	58.6	39.1	40.8	52.7	70.5	64.6	53.5	34.8
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>
1804.7
1854.0
1932.1
2021.3
2102.9
2147.9
2194.7
2229.5
2235.5
2209.1
2110.6
1951.7
1746.0
1531.9
1323.8
1143.6
1008.5
943.1
902.3
834.4
734.1
706.1
672.9
643.2
603.3
562.5
515.7
474.1
426.5
373.8
328.0
294.0
204.8
141.0
96.9
36.5
0.0

F REPORT)