

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: STREETWORKS

Report Number: P846993

Luminaire Tested: **GLAN-SB2D-850-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB2D-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17321 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

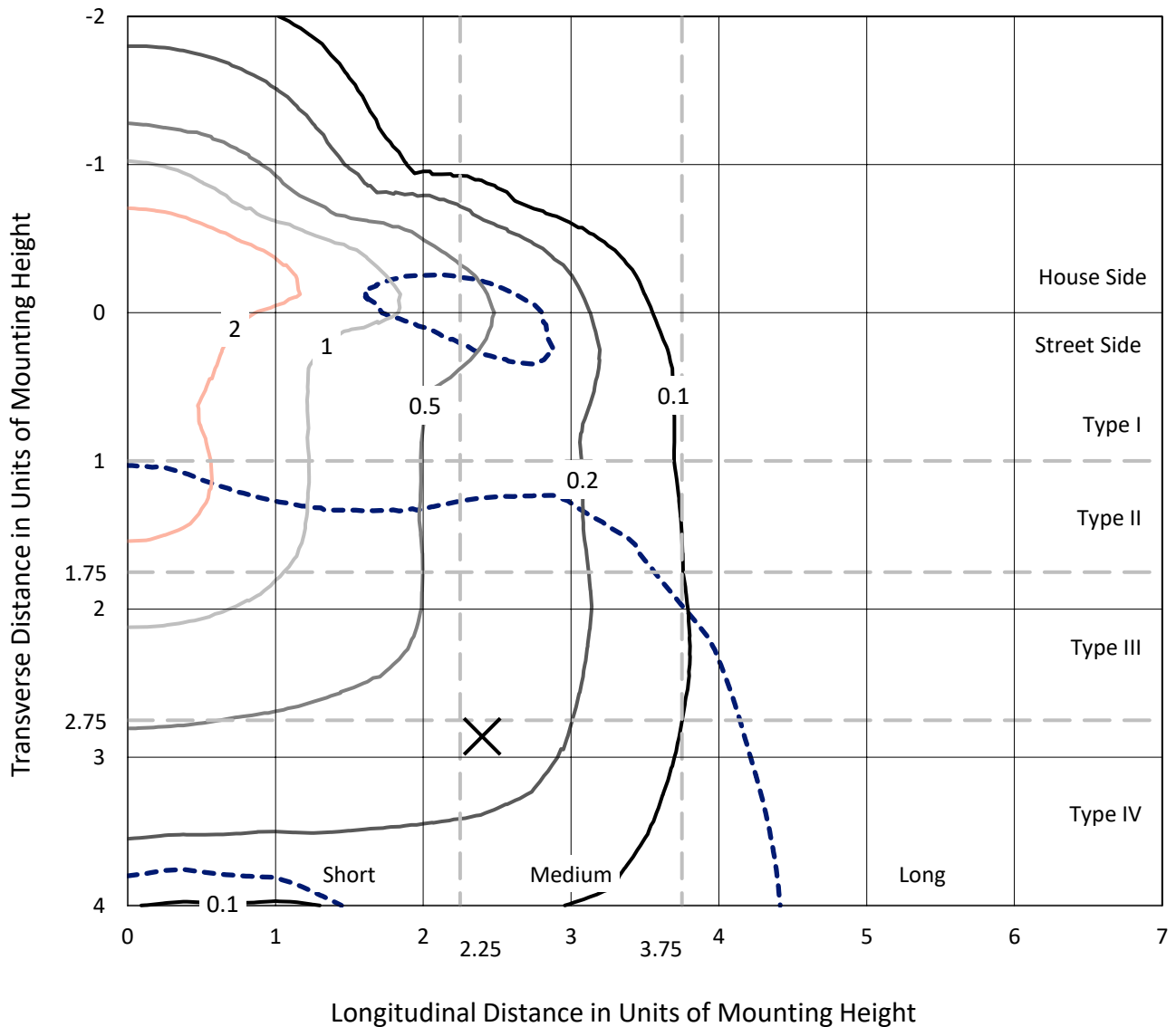
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P846993
 CATALOG NUMBER: GLAN-SB2D-850-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

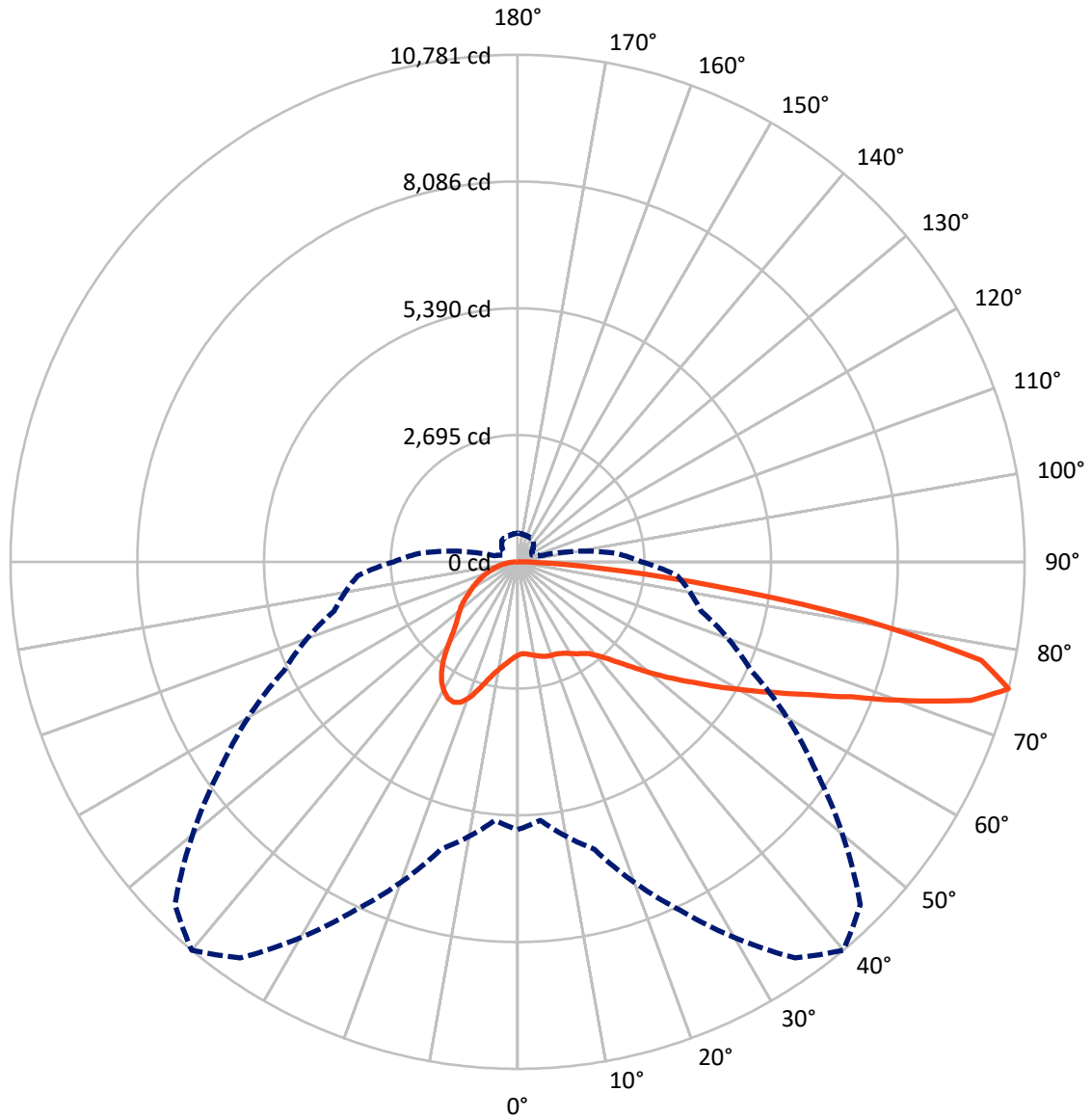
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P846993
CATALOG NUMBER: GLAN-SB2D-850-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P846993
 CATALOG NUMBER: GLAN-SB2D-850-U-SL4

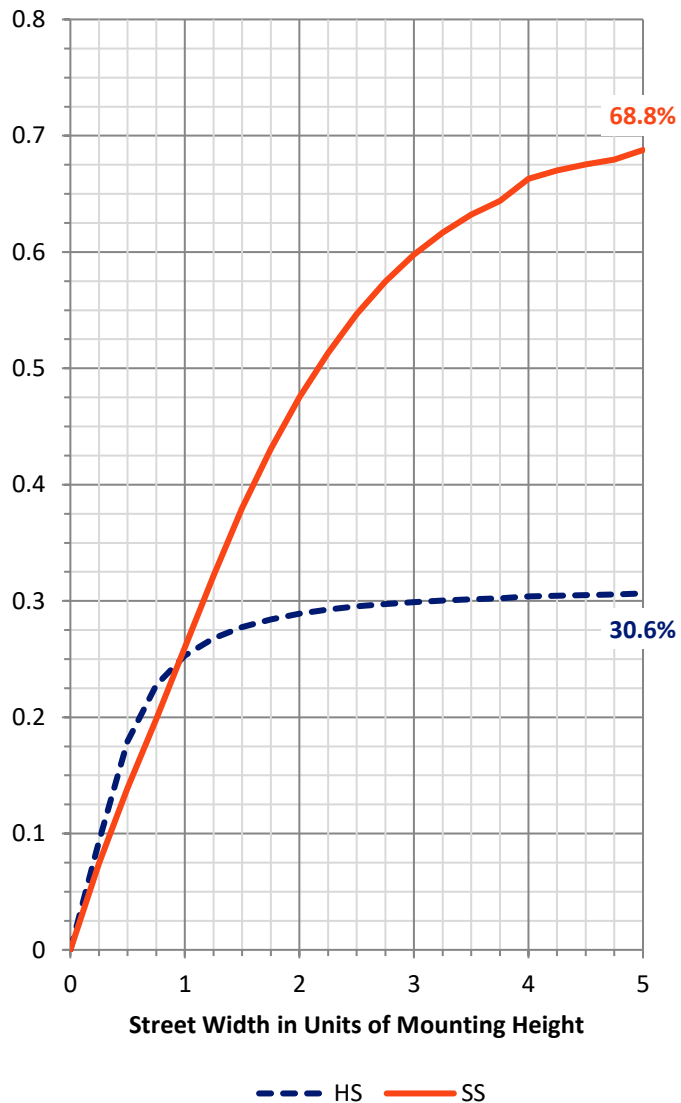
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5366.6	0.0	5366.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	11954.4	0.0	11954.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	17321.0	0.0	17321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.7	1.1
10°-20°	663.8	3.8
20°-30°	1212.0	7.0
30°-40°	1719.0	9.9
40°-50°	2321.2	13.4
50°-60°	3122.6	18.0
60°-70°	3963.3	22.9
70°-80°	3597.0	20.8
80°-90°	524.3	3.0
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°	17321.0	100.0
0°-180°	17321.0	100.0

Coefficient of Utilization



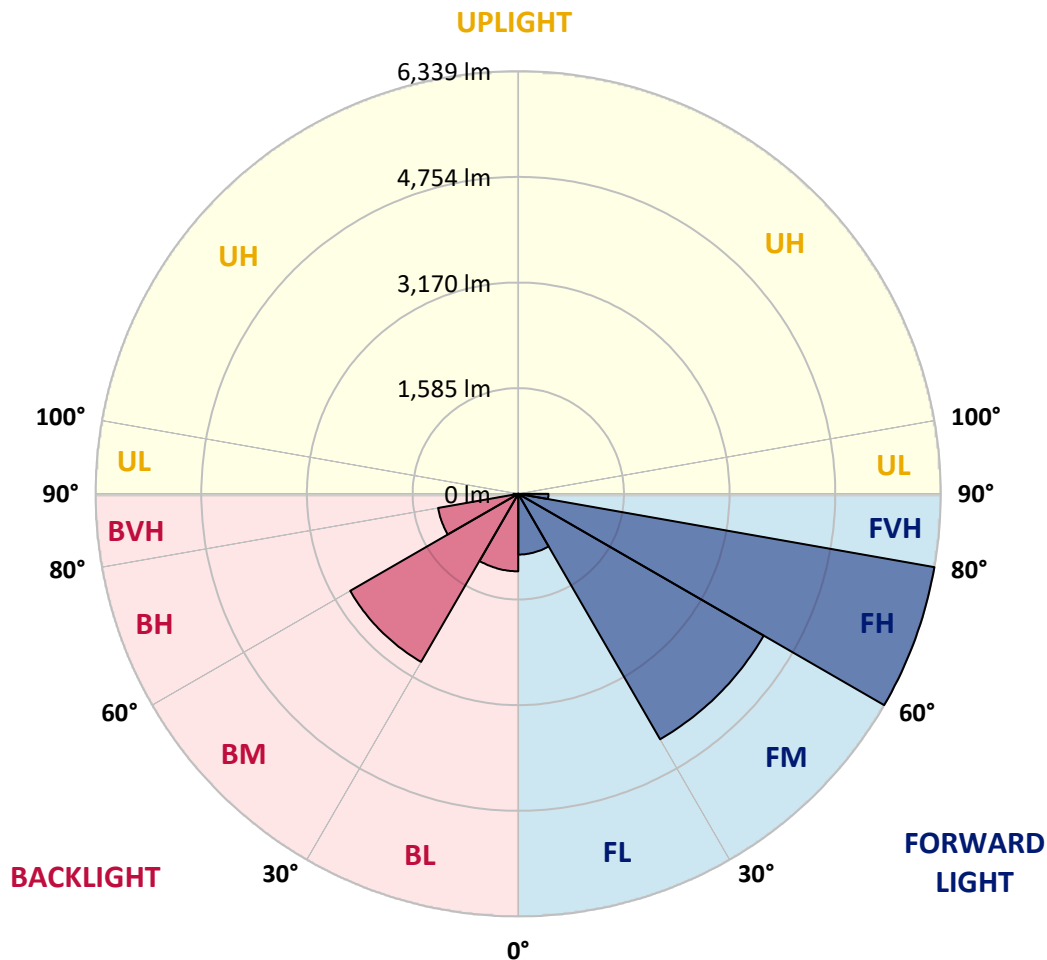
REPORT NUMBER: P846993
 CATALOG NUMBER: GLAN-SB2D-850-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.1	5.3			
FM (30°-60°)	4251.9	24.5			
FH (60°-80°)	6339.2	36.6			G3/7500
FVH (80°-90°)	452.1	2.6			G3/500
BL (0°-30°)	1162.5	6.7	B3/2500		
BM (30°-60°)	2910.9	16.8	B3/5000		
BH (60°-80°)	1221.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	72.2	0.4			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 IV Medium



REPORT NUMBER: P846993
 CATALOG NUMBER: GLAN-SB2D-850-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7
2.5°	1950.4	1961.4	1958.6	1955.0	1955.0	1955.9	1955.0	1961.4	1967.8	1974.2
5°	1970.6	1981.6	1976.1	1971.5	1967.8	1966.9	1964.1	1963.2	1966.9	1975.2
7.5°	2010.1	2021.1	2012.8	2004.6	1997.2	1993.5	1989.9	1984.4	1981.6	1986.2
10°	2054.2	2065.2	2055.1	2040.4	2028.5	2023.9	2020.2	2014.7	2011.0	2013.8
12.5°	2098.3	2109.3	2095.5	2075.3	2059.7	2056.9	2052.3	2050.5	2049.6	2048.7
15°	2139.6	2148.8	2131.3	2107.5	2090.9	2086.3	2081.7	2084.5	2089.1	2094.6
17.5°	2171.8	2181.0	2155.2	2124.0	2108.4	2106.5	2103.8	2113.0	2125.8	2139.6
20°	2201.2	2210.4	2177.3	2135.0	2116.6	2116.6	2117.6	2136.9	2155.2	2175.4
22.5°	2242.5	2249.9	2209.4	2151.6	2124.9	2126.7	2134.1	2153.4	2176.4	2203.9
25°	2304.1	2309.6	2260.0	2182.8	2152.5	2158.0	2164.4	2173.6	2195.7	2227.8
27.5°	2403.3	2407.9	2342.6	2237.9	2192.0	2201.2	2210.4	2203.9	2214.0	2241.6
30°	2542.9	2545.7	2463.0	2324.3	2259.0	2263.6	2265.5	2238.8	2219.5	2241.6
32.5°	2708.3	2707.4	2609.1	2429.0	2335.3	2330.7	2315.1	2262.7	2217.7	2237.0
35°	2964.6	2954.5	2827.7	2576.0	2421.6	2393.2	2356.4	2289.4	2226.9	2232.4
37.5°	3389.0	3357.8	3182.3	2816.7	2550.3	2477.7	2423.5	2332.5	2247.1	2230.6
40°	3867.7	3828.1	3635.2	3146.5	2743.2	2626.5	2539.2	2394.1	2280.2	2238.8
42.5°	4435.4	4379.4	4171.7	3535.1	2987.6	2818.5	2687.1	2472.2	2328.9	2265.5
45°	5132.7	5058.3	4764.3	3973.3	3295.3	3070.2	2894.8	2590.7	2403.3	2316.9
47.5°	5837.3	5855.7	5437.7	4474.9	3664.6	3380.8	3154.8	2768.9	2511.7	2399.6
50°	6586.0	6598.9	6107.4	5030.7	4083.5	3731.7	3446.9	2968.3	2662.3	2517.2
52.5°	7170.3	7172.2	6715.6	5612.2	4519.9	4117.5	3762.0	3196.1	2836.9	2673.4
55°	7536.0	7531.4	7141.8	6162.5	5021.5	4522.7	4111.1	3455.2	3050.0	2857.1
57.5°	7801.5	7787.7	7435.8	6635.6	5556.2	5001.3	4506.1	3749.1	3301.7	3075.7
60°	7902.5	7894.2	7635.2	7044.5	6118.4	5530.5	4961.8	4078.0	3587.5	3333.9
62.5°	7941.1	7956.7	7830.8	7440.4	6720.2	6116.6	5462.5	4471.2	3909.0	3626.0
65°	8077.1	8105.5	8079.8	7958.5	7400.0	6802.8	6126.7	4938.8	4259.9	3939.3
67.5°	8346.2	8374.7	8385.7	8578.7	8230.5	7658.1	6955.3	5521.3	4670.6	4264.5
70°	8339.8	8331.5	8526.3	9072.0	9270.4	8842.3	8072.5	6237.9	5160.2	4534.6
72.5°	7591.1	7524.9	7985.2	9066.5	10135.8	10078.9	9436.7	7162.0	5582.8	4567.7
75°	5694.9	5518.5	6331.6	8170.8	10280.1	10780.7	10303.9	7735.3	5482.7	4035.8
77.5°	2435.4	2258.1	3216.3	6048.6	9200.6	10077.9	9508.4	6748.6	4376.6	2668.8
80°	637.6	636.6	972.0	2742.3	6257.1	7442.2	6529.1	4358.2	2500.7	953.6
82.5°	263.7	257.2	357.4	1066.6	3057.4	4176.3	3408.3	1943.9	903.1	258.1
85°	98.3	97.4	173.6	368.4	1078.5	1722.5	1246.7	497.0	225.1	125.9
87.5°	27.6	26.6	37.7	127.7	262.7	398.7	213.1	81.8	63.4	49.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P846993
 CATALOG NUMBER: GLAN-SB2D-850-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1980.7	0°	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7
1984.4	2.5°	1987.1	1991.7	2000.0	2006.4	2014.7	2023.9	2036.7	2045.0	2053.3	2058.8
1988.9	5°	1995.4	2005.5	2026.6	2047.7	2072.5	2095.5	2122.2	2141.4	2157.1	2161.7
2005.5	7.5°	2013.8	2030.3	2066.1	2101.9	2141.4	2179.1	2217.7	2250.8	2277.4	2287.5
2034.9	10°	2045.9	2068.0	2118.5	2169.0	2221.4	2279.3	2328.9	2376.6	2414.3	2429.9
2069.8	12.5°	2086.3	2113.9	2180.0	2249.9	2322.4	2402.4	2466.7	2525.5	2572.3	2593.4
2118.5	15°	2138.7	2174.5	2259.0	2352.7	2459.3	2570.5	2652.2	2717.5	2769.8	2795.6
2169.0	17.5°	2195.7	2243.4	2350.0	2491.5	2644.0	2790.0	2885.6	2933.4	2987.6	3012.4
2215.9	20°	2250.8	2309.6	2462.1	2667.9	2870.9	3026.1	3103.3	3116.2	3119.8	3122.6
2260.0	22.5°	2307.7	2386.7	2602.6	2890.2	3107.9	3215.4	3226.4	3171.3	3094.1	3058.3
2303.1	25°	2370.2	2474.9	2786.4	3135.5	3311.9	3324.7	3240.2	3106.1	2960.0	2892.9
2338.0	27.5°	2430.8	2576.9	3006.8	3369.7	3458.8	3345.8	3163.9	2973.8	2797.4	2726.6
2362.9	30°	2491.5	2693.6	3250.3	3574.6	3525.9	3293.5	3043.6	2831.4	2654.1	2579.7
2384.9	32.5°	2553.0	2829.5	3530.5	3722.5	3514.0	3182.3	2893.8	2671.5	2515.4	2437.3
2404.2	35°	2622.8	2996.7	3796.0	3803.3	3434.0	3018.8	2696.3	2480.4	2344.5	2282.0
2427.2	37.5°	2713.8	3209.0	4030.3	3823.6	3294.4	2779.0	2451.0	2254.4	2142.4	2113.9
2461.2	40°	2826.8	3464.4	4209.4	3791.4	3087.7	2487.8	2182.8	2025.7	1962.3	1968.7
2507.1	42.5°	2973.8	3750.1	4335.3	3708.7	2800.1	2187.4	1947.6	1877.8	1908.1	1933.8
2576.0	45°	3164.9	4046.8	4413.4	3568.2	2474.9	1932.9	1808.9	1825.4	1848.4	1851.1
2687.1	47.5°	3409.2	4347.2	4464.8	3355.9	2143.3	1753.8	1720.7	1724.4	1719.8	1700.5
2853.4	50°	3714.2	4639.3	4510.7	3074.8	1861.3	1641.7	1597.6	1584.7	1521.3	1458.9
3074.8	52.5°	4061.5	4907.6	4530.0	2725.7	1641.7	1548.0	1476.3	1395.5	1277.0	1257.7
3353.2	55°	4447.3	5155.6	4480.4	2296.7	1457.0	1427.6	1319.2	1221.8	1209.0	1192.4
3719.7	57.5°	4908.5	5423.0	4379.4	1818.1	1267.8	1287.1	1181.4	1192.4	1169.5	1143.8
4191.0	60°	5412.9	5699.5	4202.1	1381.7	1072.1	1111.6	1145.6	1144.7	1138.2	1117.1
4688.0	62.5°	5866.7	5881.4	3853.0	1058.3	900.3	975.6	1068.4	1067.5	1062.0	1050.1
5207.1	65°	6136.8	5853.8	3270.5	833.2	758.8	863.6	963.7	971.0	972.0	971.0
5597.5	67.5°	6089.0	5531.4	2471.3	663.3	642.2	749.6	859.9	870.0	877.3	879.2
5647.1	70°	5548.8	4823.1	1611.4	529.2	538.3	649.5	761.6	771.7	778.1	785.5
4900.3	72.5°	4325.2	3546.1	922.4	428.1	447.4	563.2	664.2	676.2	679.8	693.6
3410.1	75°	2635.7	2085.4	497.9	337.2	367.5	481.4	567.7	581.5	588.0	604.5
1674.8	77.5°	1253.1	903.1	283.9	262.7	295.8	393.2	479.6	495.2	477.7	486.9
462.1	80°	423.5	335.3	179.1	200.3	226.0	306.8	384.0	399.6	362.9	361.0
153.4	82.5°	147.9	136.0	113.9	133.2	146.1	219.6	290.3	310.5	270.1	269.2
68.9	85°	57.9	55.1	63.4	72.6	87.3	135.0	191.1	201.2	166.3	134.1
20.2	87.5°	11.9	12.9	15.6	16.5	26.6	46.9	68.9	84.5	67.1	57.0
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>
1980.7
2055.1
2163.5
2288.4
2430.8
2593.4
2793.7
3011.4
3130.0
3068.4
2903.0
2734.9
2587.9
2447.4
2295.8
2134.1
1990.8
1957.7
1869.5
1715.2
1467.1
1264.1
1195.2
1139.2
1109.8
1045.5
971.0
881.0
789.1
699.1
606.3
479.6
357.4
256.3
132.3
52.4
0.0

F REPORT)