

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: P852307

Luminaire Tested: **GLAN-SB2D-840-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB2D-840-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17887 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

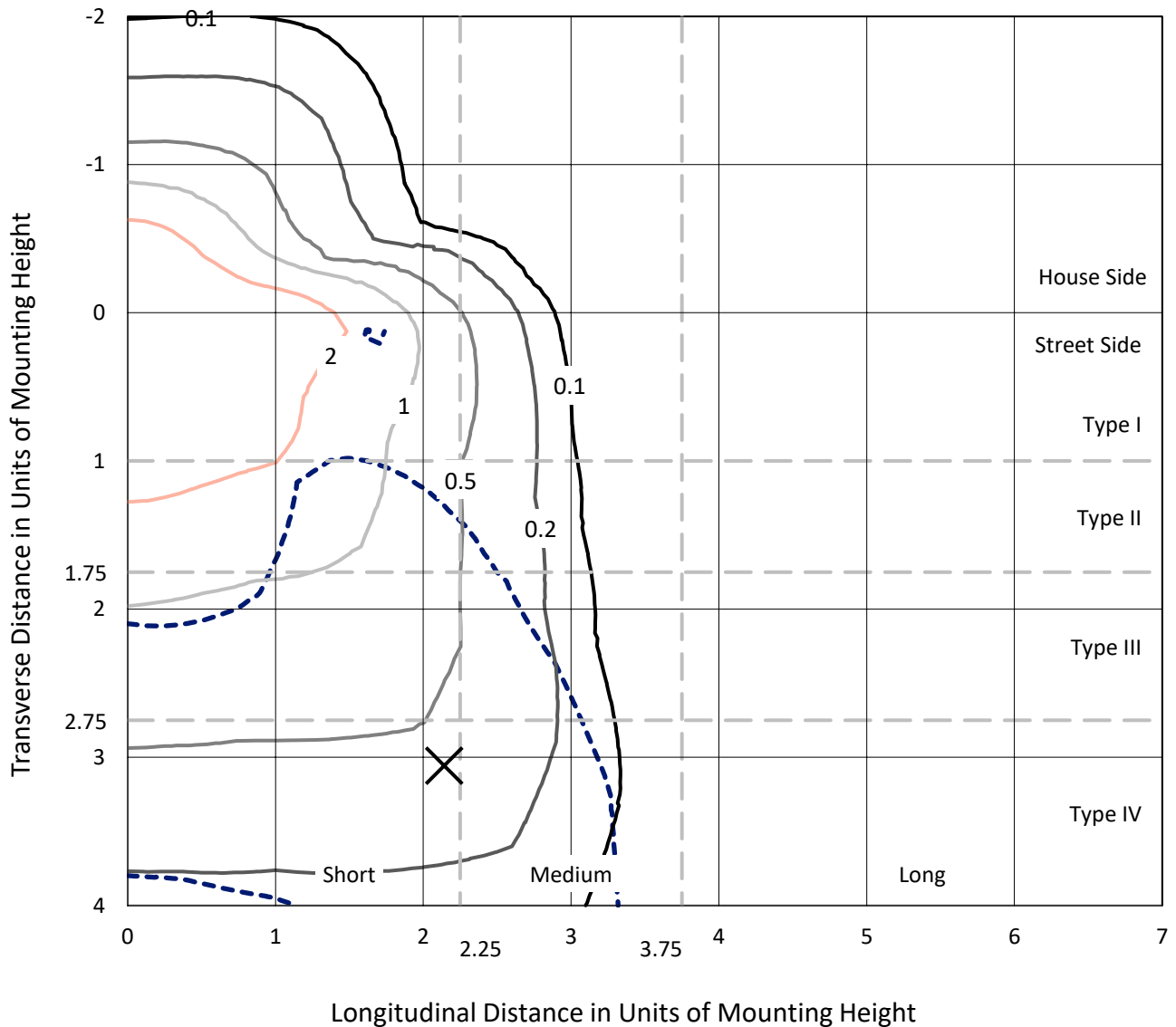
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P852307
 CATALOG NUMBER: GLAN-SB2D-840-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

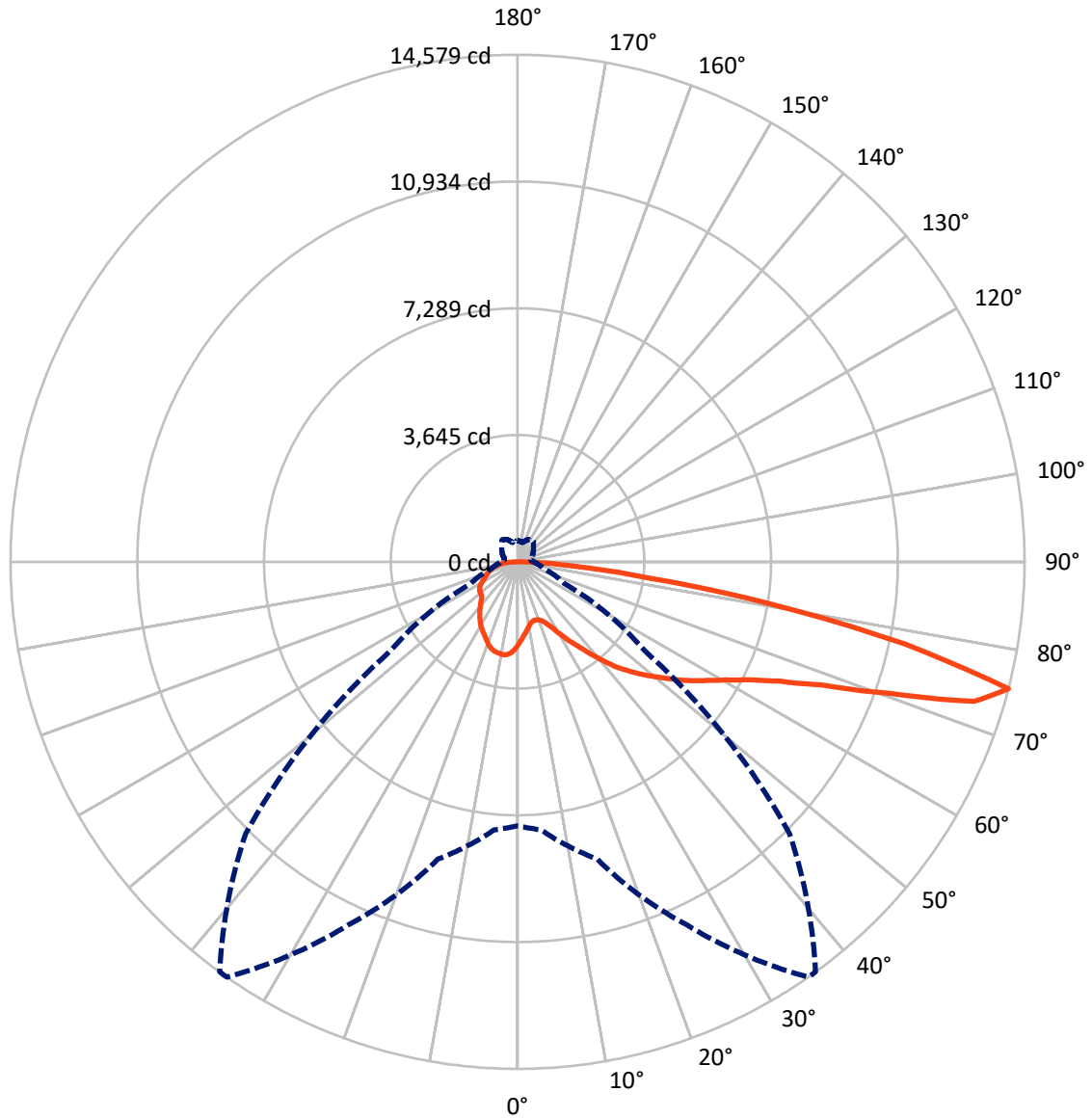
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P852307
CATALOG NUMBER: GLAN-SB2D-840-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P852307
 CATALOG NUMBER: GLAN-SB2D-840-U-T4FT

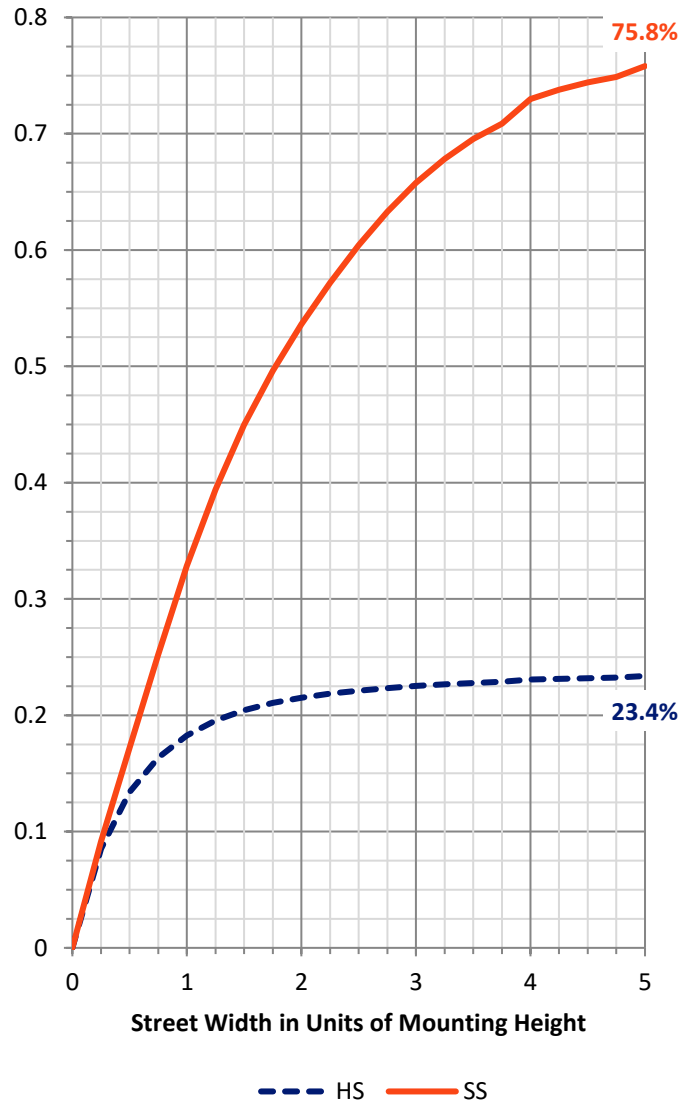
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4256.7	0.0	4256.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	13630.3	0.0	13630.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	17887.0	0.0	17887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.7	1.3
10°-20°	650.9	3.6
20°-30°	1093.1	6.1
30°-40°	1698.8	9.5
40°-50°	2521.5	14.1
50°-60°	3481.1	19.5
60°-70°	4223.4	23.6
70°-80°	3490.3	19.5
80°-90°	502.0	2.8
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°	17887.0	100.0
0°-180°	17887.0	100.0

Coefficient of Utilization



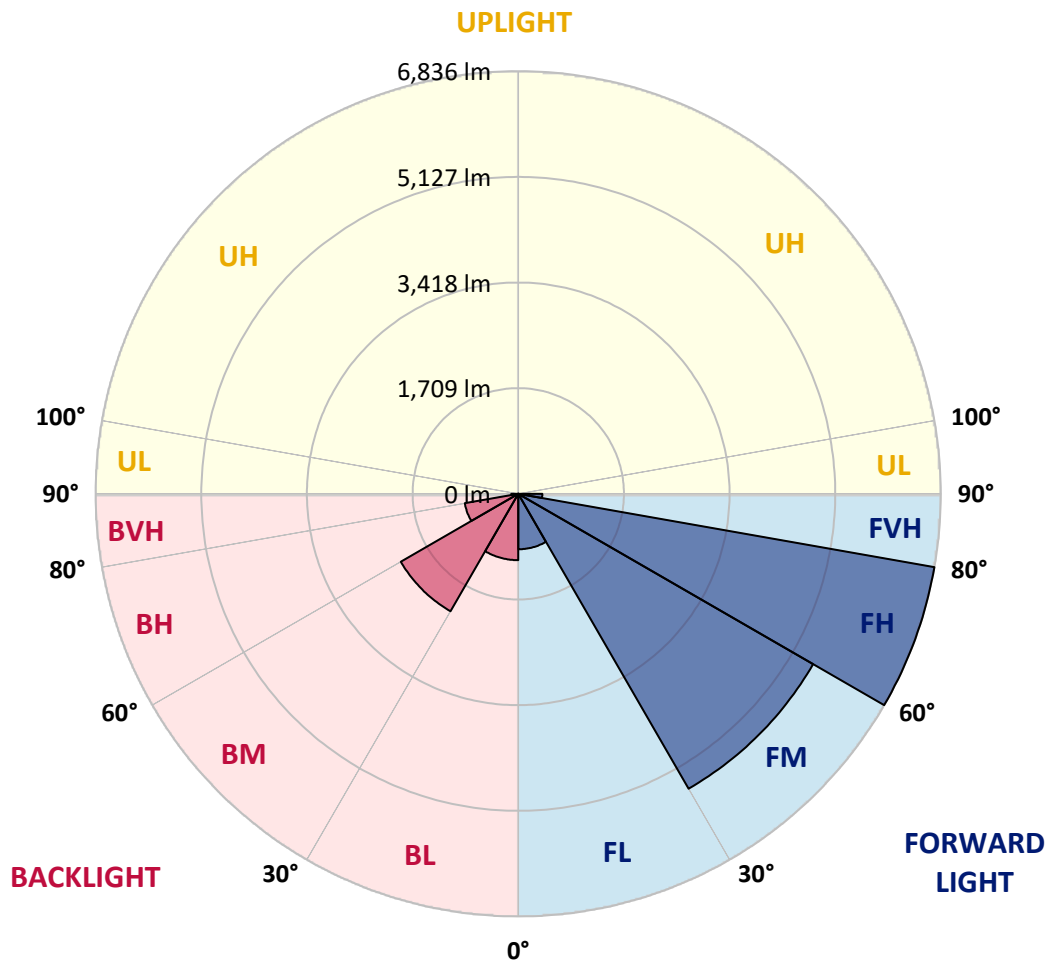
REPORT NUMBER: P852307
 CATALOG NUMBER: GLAN-SB2D-840-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.0	5.0			
FM (30°-60°)	5508.2	30.8			
FH (60°-80°)	6836.1	38.2			G3/7500
FVH (80°-90°)	389.0	2.2			G3/500
BL (0°-30°)	1072.7	6.0	B3/2500		
BM (30°-60°)	2193.3	12.3	B2/2500		
BH (60°-80°)	877.6	4.9	B2/1000		G2/1000
BVH (80°-90°)	113.0	0.6			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: P852307
 CATALOG NUMBER: GLAN-SB2D-840-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6
2.5°	2197.9	2211.4	2217.2	2214.3	2228.8	2226.9	2247.2	2272.4	2307.2	2341.0
5°	2028.7	2043.2	2055.8	2067.4	2095.4	2104.1	2136.0	2184.4	2248.2	2313.0
7.5°	1871.1	1883.6	1903.0	1924.3	1971.6	1980.3	2033.5	2108.9	2197.9	2292.7
10°	1742.5	1755.0	1775.3	1799.5	1858.5	1869.1	1936.8	2037.4	2153.4	2273.3
12.5°	1687.4	1691.2	1702.8	1727.0	1778.2	1785.0	1859.5	1974.5	2109.9	2258.8
15°	1684.4	1692.2	1693.2	1705.7	1748.3	1751.2	1819.8	1933.9	2082.8	2255.9
17.5°	1713.5	1719.3	1710.6	1718.3	1754.1	1758.9	1813.1	1914.6	2074.1	2268.5
20°	1790.8	1795.7	1769.5	1758.9	1785.0	1788.9	1842.1	1927.2	2082.8	2294.6
22.5°	1955.2	1958.1	1894.3	1850.8	1852.7	1854.6	1901.0	1978.4	2116.7	2342.0
25°	2211.4	2209.5	2108.0	2023.9	1975.5	1964.9	1995.8	2061.6	2173.7	2404.8
27.5°	2511.2	2496.7	2395.2	2269.5	2164.1	2148.6	2141.8	2169.9	2255.0	2488.0
30°	2849.6	2836.1	2726.8	2562.5	2416.4	2391.3	2327.5	2313.0	2375.8	2601.1
32.5°	3221.0	3212.3	3081.7	2882.5	2687.2	2658.2	2550.8	2512.2	2561.5	2772.3
35°	3532.3	3524.6	3416.3	3211.3	2972.4	2936.7	2827.4	2783.9	2809.0	2991.8
37.5°	3813.7	3809.8	3717.0	3555.5	3308.9	3265.4	3142.6	3128.1	3123.3	3280.9
40°	4074.8	4065.1	3968.4	3883.3	3700.6	3660.9	3552.6	3540.1	3503.3	3636.7
42.5°	4363.9	4338.8	4198.6	4158.9	4109.6	4076.7	4011.9	4013.9	3932.6	4038.0
45°	4599.8	4585.3	4441.3	4418.1	4471.2	4457.7	4513.8	4528.3	4370.7	4458.7
47.5°	4853.2	4839.6	4717.8	4701.4	4845.5	4849.3	5047.5	5052.4	4798.1	4895.7
50°	5165.5	5146.2	5025.3	5045.6	5207.1	5221.6	5584.2	5551.3	5191.6	5339.6
52.5°	5371.5	5383.1	5357.0	5389.9	5610.3	5623.9	6112.2	6028.0	5581.3	5777.6
55°	5523.3	5546.5	5627.7	5703.1	6035.8	6049.3	6610.2	6481.6	5904.3	6183.7
57.5°	5718.6	5685.7	5837.6	5984.5	6440.0	6475.8	7094.6	6918.6	6190.5	6533.8
60°	5999.0	5975.8	6093.8	6311.4	6892.5	6949.6	7607.1	7312.2	6400.3	6811.3
62.5°	6567.6	6509.6	6528.0	6720.4	7463.0	7538.4	8185.3	7655.4	6504.8	6919.6
65°	7417.6	7318.0	7225.1	7358.6	8266.6	8341.0	8838.0	7925.2	6466.1	6709.8
67.5°	8488.0	8389.4	8275.3	8401.0	9450.1	9509.1	9643.5	8077.0	6161.5	5901.4
70°	9370.8	9334.1	9470.4	9987.8	11340.5	11342.5	10676.2	7951.3	5327.0	4184.0
72.5°	9253.8	9231.6	9950.0	11549.4	13723.1	13671.9	11653.8	6999.8	3588.4	1887.5
75°	7591.6	7735.7	8848.7	11521.4	14578.9	14572.1	11055.3	4450.0	1484.3	782.3
77.5°	4070.9	4299.1	5744.7	8506.4	11381.2	11552.3	7772.4	1556.8	637.2	500.9
80°	1327.6	1526.8	2289.8	4331.0	7395.3	7363.4	3331.2	611.1	436.1	354.9
82.5°	563.7	586.9	1023.0	2045.1	3795.3	3736.3	1060.8	351.0	306.5	242.7
85°	220.5	246.6	451.6	945.7	1643.8	1608.1	382.9	174.1	196.3	158.6
87.5°	72.5	88.0	161.5	323.9	511.5	493.2	93.8	60.0	85.1	72.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P852307
 CATALOG NUMBER: GLAN-SB2D-840-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2383.6	0°	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6
2390.3	2.5°	2403.9	2419.3	2437.7	2464.8	2488.0	2507.3	2527.6	2540.2	2545.0	2559.6
2394.2	5°	2421.3	2455.1	2500.6	2545.0	2588.6	2614.7	2637.9	2649.5	2660.1	2667.9
2404.8	7.5°	2450.3	2493.8	2565.4	2623.4	2660.1	2681.4	2696.9	2693.0	2696.9	2698.8
2416.4	10°	2475.4	2536.3	2621.4	2676.6	2704.6	2705.6	2701.7	2688.2	2681.4	2682.4
2433.8	12.5°	2505.4	2573.1	2664.9	2711.4	2719.1	2697.8	2681.4	2658.2	2649.5	2645.6
2460.0	15°	2546.0	2623.4	2712.3	2729.7	2710.4	2683.3	2655.3	2617.6	2598.2	2582.8
2504.4	17.5°	2595.3	2680.4	2749.1	2736.5	2694.9	2650.4	2605.0	2547.9	2508.3	2491.9
2565.4	20°	2664.0	2740.4	2777.1	2722.0	2659.1	2591.5	2514.1	2444.5	2407.7	2391.3
2642.7	22.5°	2747.1	2820.6	2804.2	2696.9	2607.9	2499.6	2402.9	2351.7	2333.3	2321.7
2742.3	25°	2846.7	2909.6	2823.5	2660.1	2523.8	2377.8	2303.3	2286.9	2278.2	2269.5
2864.1	27.5°	2976.3	3010.2	2838.0	2606.0	2392.3	2248.2	2221.1	2224.0	2221.1	2206.6
3033.4	30°	3147.5	3140.7	2851.6	2518.0	2241.4	2131.2	2133.1	2145.7	2147.6	2138.0
3269.3	32.5°	3372.8	3304.1	2858.3	2403.9	2097.3	2028.7	2030.6	2044.2	2053.8	2037.4
3577.8	35°	3645.5	3494.6	2847.7	2260.8	1986.1	1931.0	1916.5	1920.4	1923.3	1907.8
3952.0	37.5°	3963.6	3708.3	2800.3	2102.2	1894.3	1835.3	1804.4	1778.2	1762.8	1748.3
4375.5	40°	4312.7	3941.3	2713.3	1947.5	1791.8	1733.8	1687.4	1638.0	1585.8	1566.5
4824.2	42.5°	4678.2	4181.1	2607.9	1799.5	1673.8	1626.4	1577.1	1505.6	1427.2	1387.6
5290.3	45°	5057.2	4426.8	2504.4	1653.5	1552.9	1532.6	1475.6	1389.5	1304.4	1254.2
5757.3	47.5°	5428.5	4658.8	2352.6	1506.5	1439.8	1462.0	1417.6	1338.3	1243.5	1164.2
6220.5	50°	5783.4	4876.4	2104.1	1357.6	1347.9	1440.8	1398.2	1284.1	1175.8	1074.3
6674.9	52.5°	6135.4	5052.4	1786.0	1222.2	1298.6	1435.0	1373.1	1247.4	1114.9	1008.5
7102.3	55°	6434.2	5143.3	1479.5	1106.2	1227.1	1385.7	1343.1	1203.9	1028.8	915.7
7395.3	57.5°	6604.4	5069.8	1224.2	992.1	1128.4	1304.4	1291.9	1111.0	926.4	839.3
7452.4	60°	6530.9	4772.0	1015.3	892.5	1034.7	1216.4	1202.9	1019.2	848.0	765.8
7146.8	62.5°	6125.7	4204.4	850.0	805.5	949.6	1126.5	1113.9	948.6	788.1	708.8
6335.5	65°	5309.6	3420.1	721.4	733.0	863.5	1018.2	1036.6	889.6	740.7	663.3
4901.5	67.5°	4049.6	2477.4	620.8	670.1	779.4	911.8	965.0	847.1	701.0	627.6
2836.1	70°	2308.1	1406.9	535.7	609.2	704.9	813.2	909.9	813.2	658.5	597.6
1062.7	72.5°	875.1	645.9	463.2	548.3	633.4	730.1	849.0	760.0	609.2	563.7
549.2	75°	467.0	393.6	389.7	476.7	551.2	648.8	772.6	707.8	572.4	595.6
380.0	77.5°	318.1	278.5	325.9	408.1	461.2	558.9	691.4	628.5	496.1	494.1
263.0	80°	220.5	197.3	264.9	328.8	356.8	469.9	603.4	539.6	404.2	377.1
162.4	82.5°	132.5	128.6	198.2	245.6	252.4	362.6	499.9	452.5	330.7	288.2
96.7	85°	72.5	76.4	126.7	144.1	147.0	253.3	391.6	350.0	254.3	213.7
34.8	87.5°	20.3	26.1	46.4	57.1	70.6	131.5	233.0	207.9	127.6	89.0
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>
2383.6
2558.6
2669.8
2701.7
2684.3
2643.7
2587.6
2492.8
2389.4
2323.6
2269.5
2209.5
2142.8
2045.1
1918.5
1757.9
1575.2
1392.4
1250.3
1155.5
1065.6
996.9
906.0
827.7
754.2
696.2
650.8
616.0
589.8
556.0
615.0
455.4
360.7
290.1
215.6
89.0
0.0

F REPORT)