

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: P852511

Luminaire Tested: **GLAN-SB4B-840-U-T4FT**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P852511  
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-SB4B-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19837 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

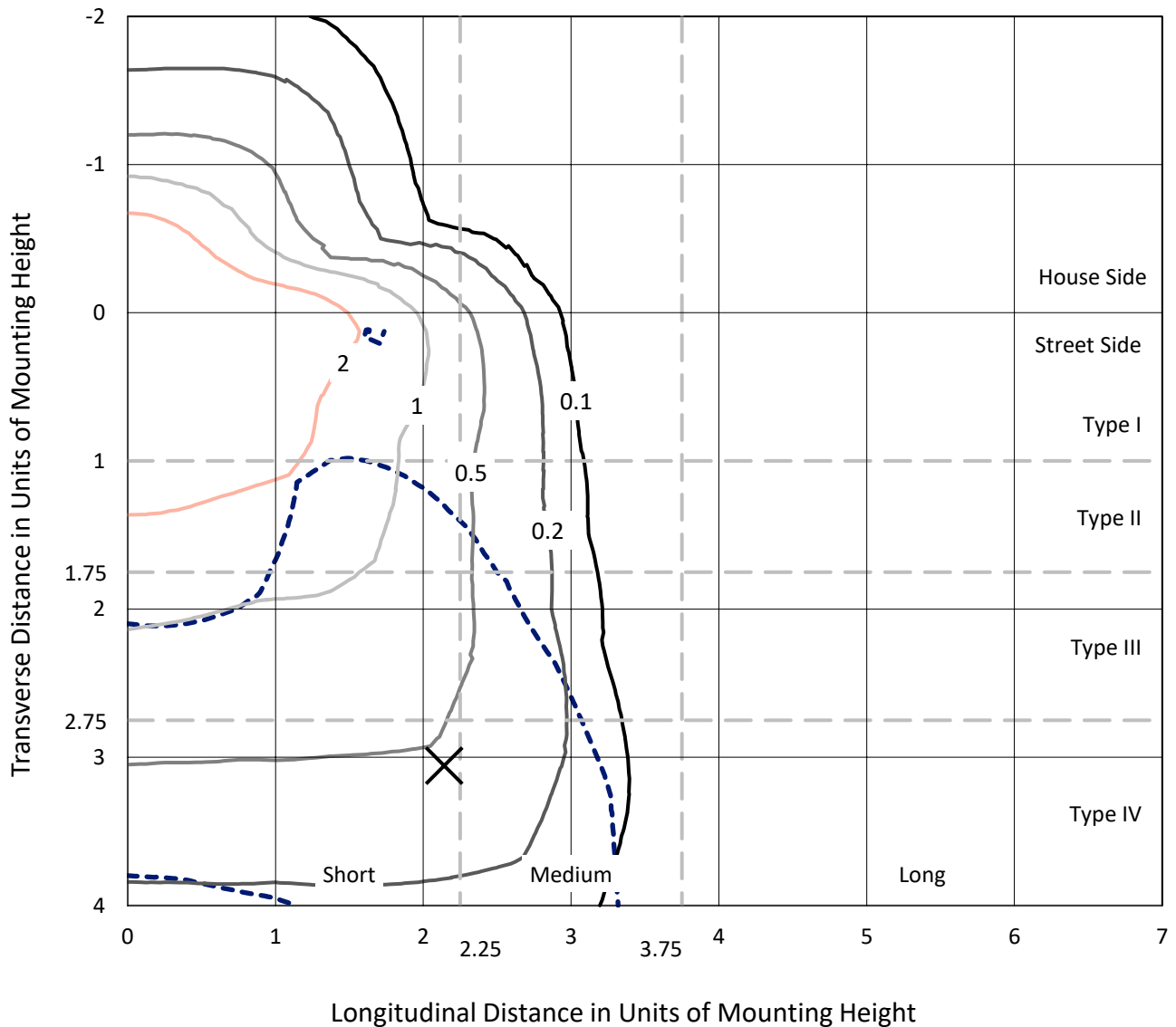
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P852511  
 CATALOG NUMBER: GLAN-SB4B-840-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

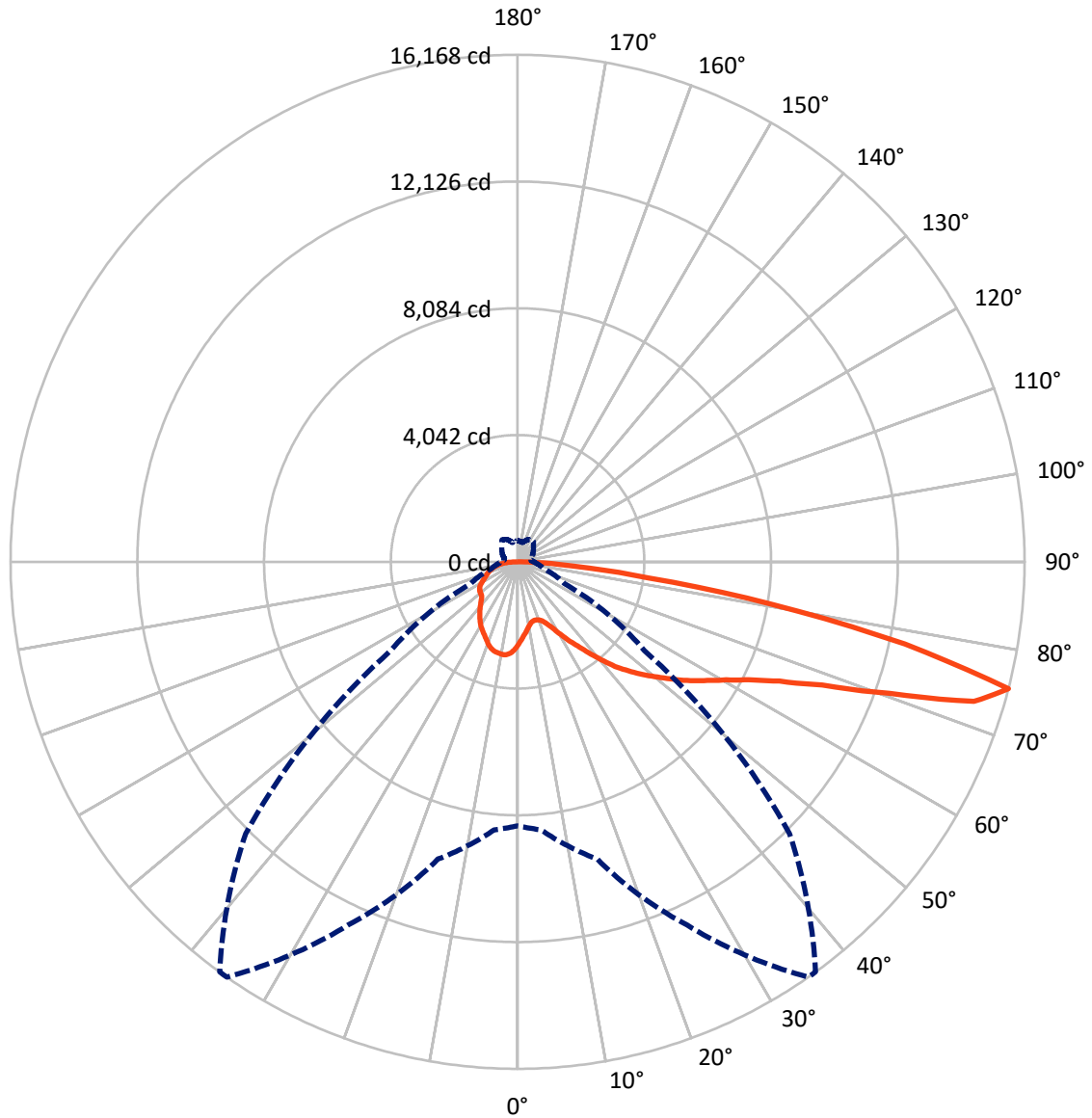
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P852511  
CATALOG NUMBER: GLAN-SB4B-840-U-T4FT

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P852511  
 CATALOG NUMBER: GLAN-SB4B-840-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4720.7	0.0	4720.7
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	15116.3	0.0	15116.3
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	19837.0	0.0	19837.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.3	1.3
10°-20°	721.9	3.6
20°-30°	1212.3	6.1
30°-40°	1884.0	9.5
40°-50°	2796.4	14.1
50°-60°	3860.6	19.5
60°-70°	4683.8	23.6
70°-80°	3870.8	19.5
80°-90°	556.7	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°	19837.0	100.0
0°-180°	19837.0	100.0

**Coefficient of Utilization**



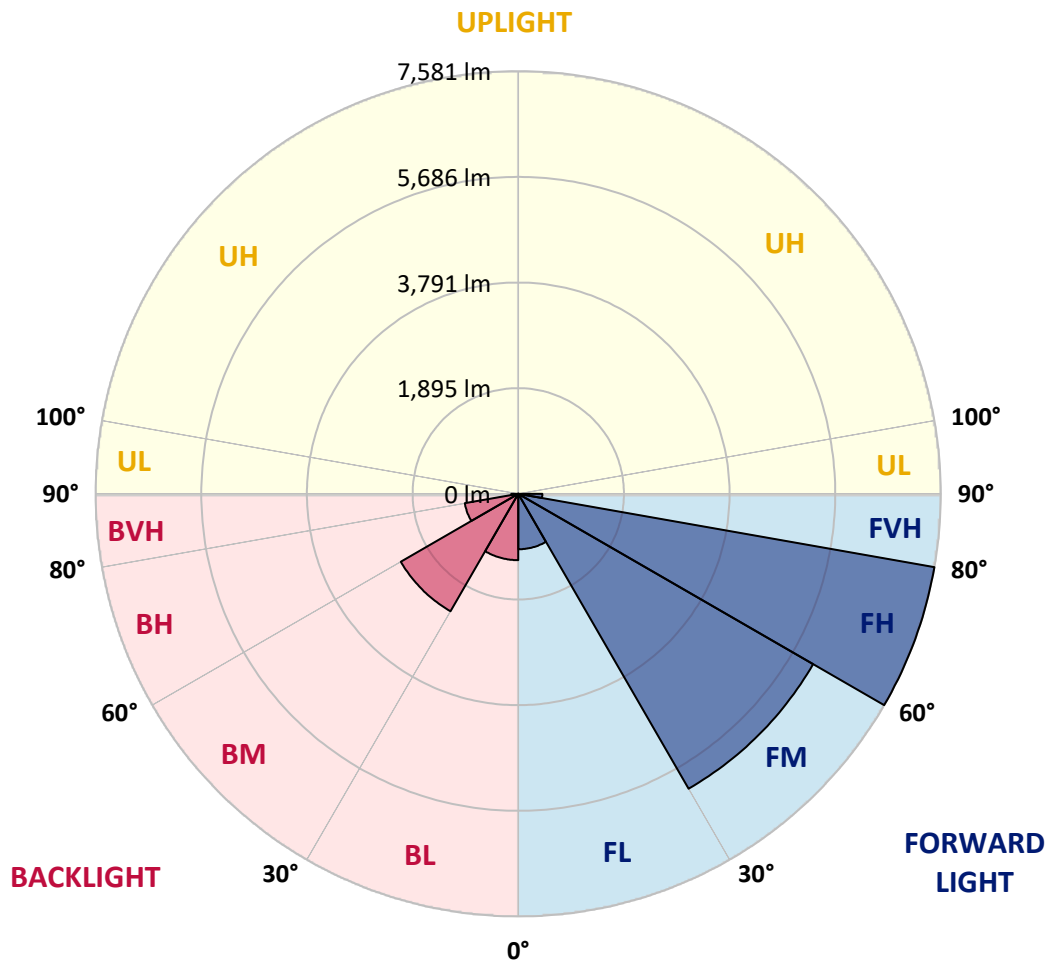
REPORT NUMBER: P852511  
 CATALOG NUMBER: GLAN-SB4B-840-U-T4FT

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	994.8	5.0			
FM (30°-60°)	6108.7	30.8			
FH (60°-80°)	7581.4	38.2			G4/12000
FVH (80°-90°)	431.4	2.2			G3/500
BL (0°-30°)	1189.7	6.0	B3/2500		
BM (30°-60°)	2432.4	12.3	B2/2500		
BH (60°-80°)	973.3	4.9	B2/1000		G2/1000
BVH (80°-90°)	125.4	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-G4**

Type IV Short



REPORT NUMBER: P852511  
 CATALOG NUMBER: GLAN-SB4B-840-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2643.4	2643.4	2643.4	2643.4	2643.4	2643.4	2643.4	2643.4	2643.4	2643.4
2.5°	2437.5	2452.5	2459.0	2455.7	2471.8	2469.7	2492.2	2520.1	2558.7	2596.2
5°	2249.9	2265.9	2279.9	2292.7	2323.8	2333.5	2368.9	2422.5	2493.3	2565.1
7.5°	2075.1	2089.0	2110.4	2134.0	2186.6	2196.2	2255.2	2338.9	2437.5	2542.6
10°	1932.4	1946.4	1968.9	1995.7	2061.1	2072.9	2148.0	2259.5	2388.2	2521.2
12.5°	1871.3	1875.6	1888.5	1915.3	1972.1	1979.6	2062.2	2189.8	2339.9	2505.1
15°	1868.1	1876.7	1877.7	1891.7	1938.9	1942.1	2018.2	2144.8	2309.9	2501.9
17.5°	1900.3	1906.7	1897.0	1905.6	1945.3	1950.7	2010.7	2123.3	2300.3	2515.8
20°	1986.0	1991.4	1962.5	1950.7	1979.6	1983.9	2042.9	2137.3	2309.9	2544.8
22.5°	2168.4	2171.6	2100.8	2052.5	2054.7	2056.8	2108.3	2194.1	2347.4	2597.3
25°	2452.5	2450.4	2337.8	2244.5	2190.9	2179.1	2213.4	2286.3	2410.7	2667.0
27.5°	2785.0	2768.9	2656.3	2516.9	2400.0	2382.8	2375.3	2406.4	2500.8	2759.2
30°	3160.3	3145.3	3024.1	2841.8	2679.9	2652.0	2581.2	2565.1	2634.8	2884.7
32.5°	3572.1	3562.4	3417.7	3196.8	2980.1	2948.0	2828.9	2786.0	2840.7	3074.5
35°	3917.4	3908.8	3788.7	3561.4	3296.5	3256.8	3135.6	3087.4	3115.3	3317.9
37.5°	4229.5	4225.2	4122.2	3943.1	3669.7	3621.4	3485.2	3469.1	3463.8	3638.6
40°	4519.0	4508.3	4401.0	4306.7	4104.0	4060.0	3939.9	3926.0	3885.2	4033.2
42.5°	4839.6	4811.8	4656.3	4612.3	4557.6	4521.2	4449.3	4451.4	4361.4	4478.3
45°	5101.3	5085.2	4925.4	4899.7	4958.7	4943.7	5005.9	5022.0	4847.2	4944.7
47.5°	5382.3	5367.3	5232.1	5213.9	5373.7	5378.0	5597.8	5603.2	5321.1	5429.5
50°	5728.6	5707.2	5573.2	5595.7	5774.8	5790.8	6193.0	6156.5	5757.6	5921.7
52.5°	5957.1	5969.9	5941.0	5977.4	6221.9	6237.0	6778.5	6685.2	6189.8	6407.5
55°	6125.4	6151.2	6241.2	6324.9	6693.8	6708.8	7330.8	7188.2	6547.9	6857.9
57.5°	6342.0	6305.6	6474.0	6637.0	7142.0	7181.7	7868.0	7672.9	6865.4	7246.1
60°	6653.0	6627.3	6758.1	6999.4	7643.9	7707.2	8436.4	8109.3	7098.1	7553.8
62.5°	7283.6	7219.3	7239.6	7453.0	8276.6	8360.3	9077.7	8490.0	7213.9	7673.9
65°	8226.2	8115.8	8012.8	8160.8	9167.8	9250.3	9801.5	8789.2	7171.0	7441.2
67.5°	9413.3	9304.0	9177.4	9316.8	10480.4	10545.8	10694.8	8957.6	6833.2	6544.7
70°	10392.4	10351.7	10502.9	11076.6	12576.9	12579.0	11840.1	8818.2	5907.7	4640.2
72.5°	10262.7	10238.0	11034.8	12808.5	15219.2	15162.4	12924.3	7763.0	3979.6	2093.3
75°	8419.2	8579.0	9813.3	12777.4	16168.3	16160.8	12260.5	4935.1	1646.1	867.6
77.5°	4514.7	4767.8	6371.0	9433.7	12621.9	12811.7	8619.8	1726.5	706.7	555.5
80°	1472.4	1693.3	2539.4	4803.2	8201.6	8166.2	3694.3	677.7	483.6	393.6
82.5°	625.2	650.9	1134.6	2268.1	4209.1	4143.7	1176.4	389.3	339.9	269.2
85°	244.5	273.5	500.8	1048.8	1823.0	1783.4	424.7	193.0	217.7	175.9
87.5°	80.4	97.6	179.1	359.2	567.3	546.9	104.0	66.5	94.4	80.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P852511  
 CATALOG NUMBER: GLAN-SB4B-840-U-T4FT

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2643.4	0°	2643.4	2643.4	2643.4	2643.4	2643.4	2643.4	2643.4	2643.4	2643.4	2643.4
2650.9	2.5°	2665.9	2683.1	2703.5	2733.5	2759.2	2780.7	2803.2	2817.1	2822.5	2838.6
2655.2	5°	2685.2	2722.8	2773.2	2822.5	2870.8	2899.7	2925.5	2938.3	2950.1	2958.7
2667.0	7.5°	2717.4	2765.7	2845.0	2909.4	2950.1	2973.7	2990.9	2986.6	2990.9	2993.0
2679.9	10°	2745.3	2812.9	2907.2	2968.3	2999.4	3000.5	2996.2	2981.2	2973.7	2974.8
2699.2	12.5°	2778.5	2853.6	2955.5	3007.0	3015.5	2991.9	2973.7	2948.0	2938.3	2934.0
2728.1	15°	2823.6	2909.4	3008.0	3027.3	3005.9	2975.9	2944.8	2902.9	2881.5	2864.3
2777.5	17.5°	2878.3	2972.6	3048.8	3034.8	2988.7	2939.4	2889.0	2825.7	2781.8	2763.5
2845.0	20°	2954.4	3039.1	3079.9	3018.7	2949.0	2874.0	2788.2	2711.0	2670.2	2652.0
2930.8	22.5°	3046.6	3128.1	3109.9	2990.9	2892.2	2772.1	2664.9	2608.0	2587.7	2574.8
3041.3	25°	3157.1	3226.8	3131.3	2950.1	2798.9	2637.0	2554.4	2536.2	2526.5	2516.9
3176.4	27.5°	3300.8	3338.3	3147.4	2890.1	2653.1	2493.3	2463.3	2466.5	2463.3	2447.2
3364.1	30°	3490.6	3483.1	3162.4	2792.5	2485.8	2363.5	2365.7	2379.6	2381.8	2371.0
3625.7	32.5°	3740.5	3664.3	3170.0	2665.9	2326.0	2249.9	2252.0	2267.0	2277.7	2259.5
3967.8	35°	4042.9	3875.6	3158.2	2507.2	2202.7	2141.5	2125.5	2129.7	2133.0	2115.8
4382.8	37.5°	4395.7	4112.6	3105.6	2331.4	2100.8	2035.4	2001.1	1972.1	1954.9	1938.9
4852.5	40°	4782.8	4371.0	3009.1	2159.8	1987.1	1922.8	1871.3	1816.6	1758.7	1737.3
5350.1	42.5°	5188.2	4637.0	2892.2	1995.7	1856.3	1803.7	1749.1	1669.7	1582.8	1538.9
5867.0	45°	5608.5	4909.4	2777.5	1833.8	1722.2	1699.7	1636.5	1541.0	1446.6	1390.9
6384.9	47.5°	6020.3	5166.7	2609.1	1670.8	1596.8	1621.4	1572.1	1484.2	1379.1	1291.1
6898.6	50°	6413.9	5408.0	2333.5	1505.6	1494.9	1597.8	1550.7	1424.1	1304.0	1191.4
7402.6	52.5°	6804.2	5603.2	1980.7	1355.5	1440.2	1591.4	1522.8	1383.4	1236.5	1118.5
7876.6	55°	7135.6	5704.0	1640.7	1226.8	1360.8	1536.7	1489.5	1335.1	1141.0	1015.5
8201.6	57.5°	7324.3	5622.5	1357.6	1100.3	1251.5	1446.6	1432.7	1232.2	1027.3	930.8
8264.8	60°	7242.8	5292.2	1126.0	989.8	1147.4	1349.1	1334.0	1130.3	940.5	849.3
7926.0	62.5°	6793.5	4662.7	942.6	893.3	1053.1	1249.3	1235.4	1052.0	874.0	786.1
7026.2	65°	5888.4	3793.0	800.0	812.9	957.6	1129.2	1149.6	986.6	821.4	735.7
5435.9	67.5°	4491.1	2747.4	688.5	743.2	864.3	1011.3	1070.2	939.4	777.5	696.0
3145.3	70°	2559.8	1560.3	594.1	675.6	781.8	901.9	1009.1	901.9	730.3	662.7
1178.5	72.5°	970.5	716.3	513.7	608.0	702.4	809.6	941.5	842.9	675.6	625.2
609.1	75°	518.0	436.5	432.2	528.7	611.3	719.6	856.8	785.0	634.8	660.6
421.4	77.5°	352.8	308.8	361.4	452.5	511.5	619.8	766.8	697.0	550.1	548.0
291.7	80°	244.5	218.8	293.8	364.6	395.7	521.2	669.2	598.4	448.3	418.2
180.2	82.5°	146.9	142.6	219.8	272.4	279.9	402.1	554.4	501.9	366.8	319.6
107.2	85°	80.4	84.7	140.5	159.8	163.0	281.0	434.3	388.2	282.0	237.0
38.6	87.5°	22.5	29.0	51.5	63.3	78.3	145.8	258.4	230.6	141.6	98.7
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>
2643.4
2837.5
2960.8
2996.2
2976.9
2931.9
2869.7
2764.6
2649.8
2576.9
2516.9
2450.4
2376.4
2268.1
2127.6
1949.6
1746.9
1544.2
1386.6
1281.5
1181.8
1105.6
1004.8
918.0
836.5
772.1
721.7
683.1
654.2
616.6
682.0
505.1
400.0
321.7
239.1
98.7
0.0

F REPORT)