

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: P848016

Luminaire Tested: **GLAN-SB4B-850-U-T2**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4B-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19200 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

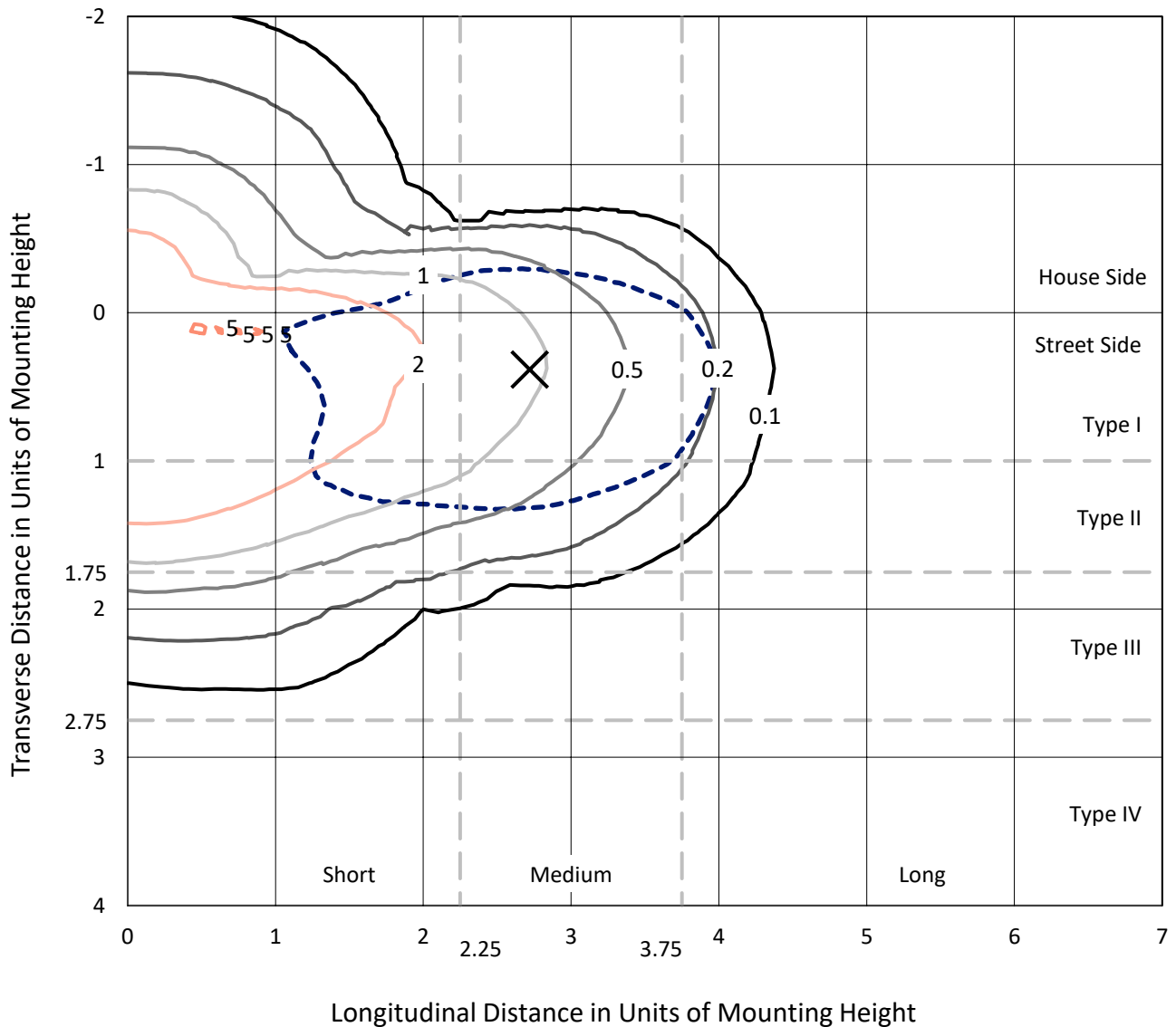
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P848016
 CATALOG NUMBER: GLAN-SB4B-850-U-T2

Iso-Footcandle Lines of Horizontal Illumination

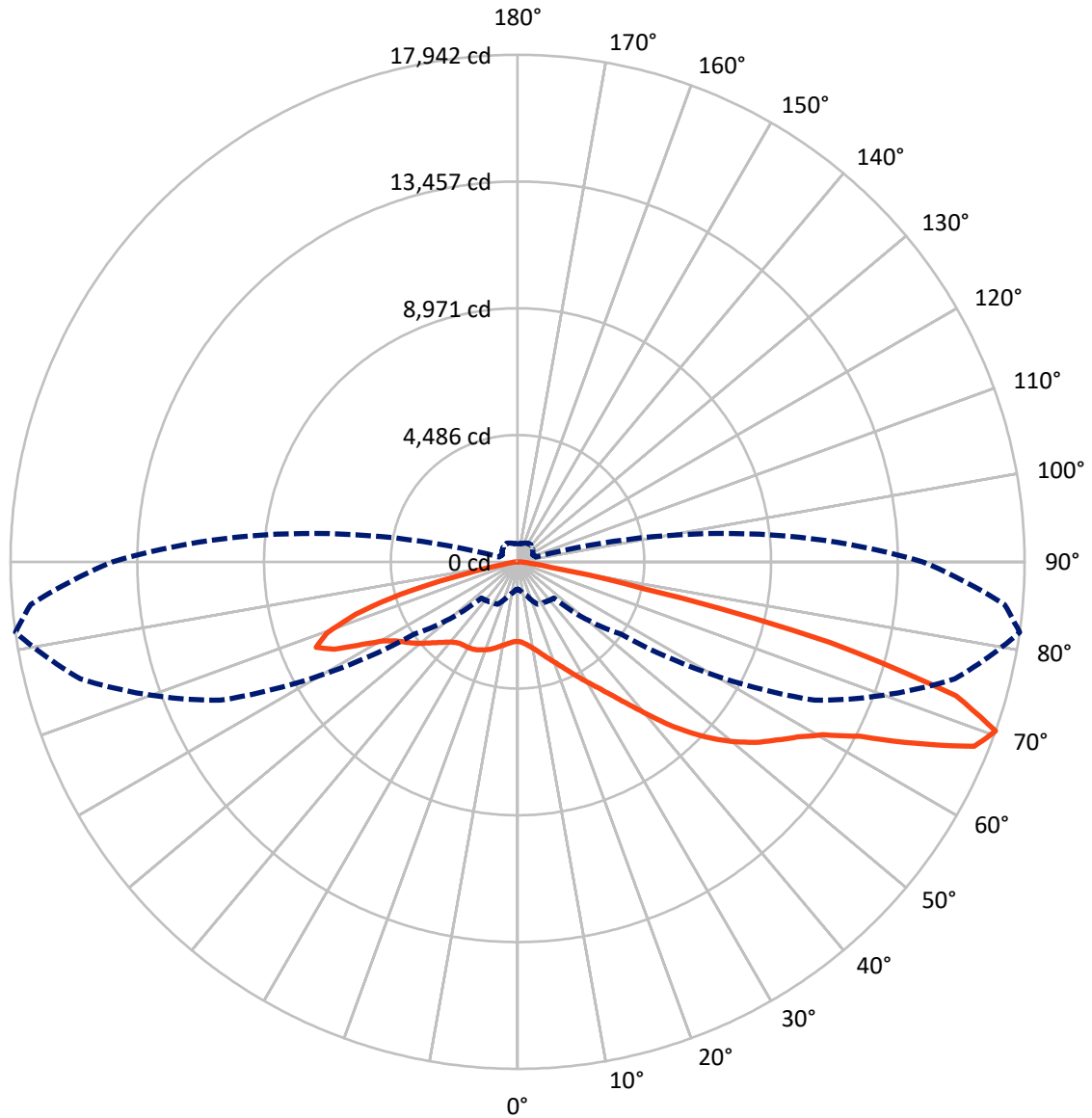
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P848016
CATALOG NUMBER: GLAN-SB4B-850-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P848016
 CATALOG NUMBER: GLAN-SB4B-850-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4733.3	0.0	4733.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	14466.7	0.0	14466.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	19200.0	0.0	19200.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.8	1.4
10°-20°	763.6	4.0
20°-30°	1277.4	6.7
30°-40°	1995.7	10.4
40°-50°	3178.4	16.6
50°-60°	4423.1	23.0
60°-70°	4626.7	24.1
70°-80°	2418.2	12.6
80°-90°	251.1	1.3
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°	19200.0	100.0
0°-180°	19200.0	100.0

Coefficient of Utilization



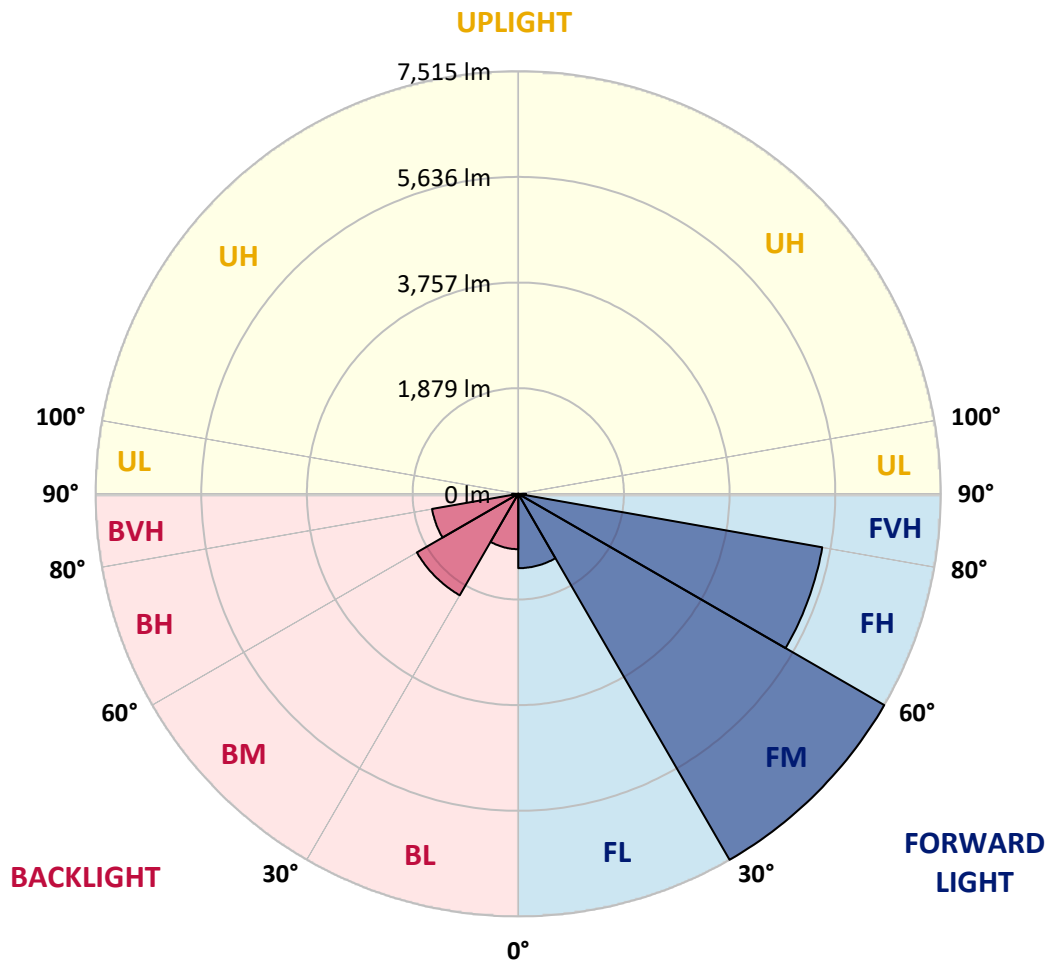
REPORT NUMBER: P848016
 CATALOG NUMBER: GLAN-SB4B-850-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1322.1	6.9			
FM (30°-60°)	7514.7	39.1			
FH (60°-80°)	5489.3	28.6			G3/7500
FVH (80°-90°)	140.6	0.7			G2/225
BL (0°-30°)	984.7	5.1	B2/1000		
BM (30°-60°)	2082.5	10.8	B2/2500		
BH (60°-80°)	1555.6	8.1	B3/2500		G3/2500
BVH (80°-90°)	110.5	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 II Medium



REPORT NUMBER: P848016
 CATALOG NUMBER: GLAN-SB4B-850-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0
2.5°	2882.2	2898.5	2893.4	2888.3	2888.3	2881.2	2880.2	2870.0	2861.8	2848.6
5°	2918.9	2936.2	2934.2	2938.2	2951.5	2954.5	2957.6	2951.5	2935.2	2918.9
7.5°	2886.3	2905.6	2911.7	2936.2	2977.0	3013.6	3041.1	3052.3	3037.1	3013.6
10°	2776.2	2797.6	2819.0	2877.1	2949.4	3036.0	3109.4	3153.2	3150.1	3127.7
12.5°	2553.1	2575.5	2621.4	2734.5	2866.9	3019.7	3156.3	3248.0	3279.5	3263.2
15°	2374.8	2394.2	2428.8	2545.0	2717.2	2949.4	3173.6	3351.9	3432.4	3423.2
17.5°	2369.7	2377.9	2399.3	2454.3	2586.7	2839.4	3155.2	3453.8	3607.6	3606.6
20°	2459.4	2462.5	2474.7	2485.9	2561.3	2755.9	3108.4	3538.3	3804.2	3804.2
22.5°	2583.7	2581.7	2593.9	2583.7	2620.4	2748.7	3078.8	3612.7	4023.3	4039.6
25°	2770.1	2759.9	2756.9	2733.5	2740.6	2815.0	3111.4	3697.2	4283.1	4316.7
27.5°	3018.7	3002.4	2991.2	2937.2	2918.9	2951.5	3211.3	3799.1	4572.4	4630.5
30°	3342.7	3313.2	3296.9	3203.1	3136.9	3142.0	3362.1	3934.6	4875.0	4968.7
32.5°	3784.9	3739.0	3695.2	3541.4	3420.1	3380.4	3556.7	4122.1	5203.0	5352.8
35°	4280.0	4243.3	4196.5	3959.1	3772.6	3680.9	3819.5	4383.9	5587.1	5824.5
37.5°	4756.8	4725.2	4747.6	4427.7	4187.3	4053.8	4163.9	4735.4	6060.9	6411.3
40°	5249.9	5225.5	5228.5	4922.9	4642.7	4492.9	4581.6	5176.6	6603.9	7109.2
42.5°	5785.8	5767.5	5706.3	5435.3	5120.5	4980.9	5062.4	5686.0	7186.7	7903.9
45°	6385.9	6374.7	6317.6	6006.9	5646.2	5489.3	5599.4	6248.3	7772.5	8651.7
47.5°	6904.4	6913.6	6906.5	6644.7	6270.7	6040.5	6171.9	6835.2	8317.5	9354.7
50°	7154.1	7201.9	7272.2	7190.7	6958.4	6724.1	6749.6	7401.6	8837.1	10013.8
52.5°	7023.6	7114.3	7305.9	7436.3	7525.9	7477.0	7408.8	7964.0	9326.1	10608.8
55°	6537.7	6665.0	6982.9	7297.7	7755.1	8110.7	8200.4	8587.5	9802.9	11132.5
57.5°	5652.3	5859.2	6144.4	6781.2	7551.4	8417.4	9123.4	9452.5	10308.3	11691.8
60°	4134.3	4411.4	4766.0	5713.5	6838.2	8253.3	9908.9	10781.0	11026.5	12416.2
62.5°	2645.8	2817.0	3143.0	4035.5	5328.4	7412.8	10149.3	12441.7	12244.0	13604.1
65°	1811.4	1921.5	2220.0	2721.2	3444.6	5517.9	9505.5	13686.6	14177.7	15486.9
67.5°	1316.3	1399.8	1654.5	2093.6	2244.4	3265.3	7376.2	13629.6	16057.4	17426.7
70°	959.7	1018.8	1232.8	1654.5	1726.9	1816.5	4468.5	11585.9	16016.6	17942.2
72.5°	711.1	751.9	895.5	1283.7	1397.8	1226.6	2211.8	8420.4	13763.0	16228.6
75°	514.5	545.1	651.0	982.1	1118.6	934.2	1103.4	4920.8	9600.2	11415.7
77.5°	393.3	416.7	486.0	719.3	895.5	700.9	684.6	2263.8	4552.0	4574.4
80°	315.8	331.1	368.8	506.3	686.7	524.7	446.2	913.9	1438.6	1217.5
82.5°	232.3	257.8	311.8	355.6	491.1	361.7	272.0	461.5	547.1	470.7
85°	132.4	149.8	188.5	254.7	313.8	221.1	155.9	204.8	254.7	208.9
87.5°	46.9	61.1	66.2	99.8	136.5	91.7	60.1	59.1	83.5	62.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P848016
 CATALOG NUMBER: GLAN-SB4B-850-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2815.0	0°	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0
2845.5	2.5°	2835.3	2830.2	2809.9	2782.4	2753.8	2726.3	2717.2	2697.8	2684.6	2677.4
2911.7	5°	2892.4	2876.1	2828.2	2767.1	2702.9	2633.6	2584.7	2539.9	2507.3	2476.7
3002.4	7.5°	2973.9	2945.4	2862.8	2755.9	2641.8	2526.6	2441.1	2375.9	2332.0	2303.5
3108.4	10°	3068.6	3024.8	2898.5	2738.5	2562.3	2397.2	2296.4	2240.4	2212.8	2197.6
3229.6	12.5°	3177.7	3115.5	2935.2	2698.8	2441.1	2252.6	2183.3	2167.0	2168.0	2169.0
3382.4	15°	3312.1	3225.5	2964.7	2612.2	2283.1	2141.5	2129.3	2155.8	2183.3	2196.5
3555.6	17.5°	3463.9	3341.7	2969.8	2469.6	2128.3	2070.2	2108.9	2166.0	2207.8	2226.1
3749.2	20°	3626.9	3459.9	2933.1	2267.9	2000.9	2012.1	2081.4	2154.8	2200.6	2224.1
3970.3	22.5°	3813.4	3586.2	2845.5	2055.9	1897.0	1949.0	2030.5	2101.8	2149.7	2173.1
4230.1	25°	4026.3	3727.8	2708.0	1877.7	1807.4	1877.7	1959.2	2018.3	2057.0	2078.4
4520.4	27.5°	4262.7	3875.5	2524.6	1736.0	1728.9	1804.3	1871.5	1917.4	1937.8	1954.1
4829.1	30°	4500.1	4010.0	2302.5	1629.1	1660.7	1732.0	1779.9	1800.2	1806.3	1809.4
5173.5	32.5°	4756.8	4126.2	2069.2	1540.4	1595.4	1661.7	1690.2	1699.4	1670.8	1651.5
5591.2	35°	5067.5	4250.5	1841.0	1470.1	1531.3	1588.3	1597.5	1589.3	1555.7	1516.0
6114.9	37.5°	5451.6	4405.3	1658.6	1420.2	1471.2	1508.9	1497.6	1495.6	1498.7	1451.8
6744.5	40°	5922.3	4607.0	1525.2	1381.5	1422.3	1430.4	1398.8	1416.1	1431.4	1360.1
7435.2	42.5°	6445.0	4850.5	1440.6	1355.0	1381.5	1362.1	1313.2	1332.6	1330.6	1236.8
8129.1	45°	6977.8	5115.4	1411.0	1335.7	1343.8	1305.1	1251.1	1256.2	1213.4	1128.8
8794.3	47.5°	7507.6	5399.7	1429.4	1319.4	1296.9	1253.1	1211.4	1188.9	1125.8	1062.6
9432.1	50°	8027.2	5698.2	1496.6	1286.8	1232.8	1207.3	1176.7	1137.0	1069.7	1015.7
10035.2	52.5°	8509.1	5998.7	1572.0	1232.8	1152.3	1167.6	1148.2	1102.3	1036.1	981.1
10605.8	55°	8965.5	6299.3	1601.6	1158.4	1076.9	1132.9	1121.7	1037.1	957.7	912.8
11202.8	57.5°	9462.7	6661.0	1569.0	1063.6	1015.7	1093.2	1050.4	956.7	910.8	877.2
11980.1	60°	10151.4	7228.4	1498.7	946.5	957.7	1034.1	960.7	922.0	872.1	834.4
13145.6	62.5°	11295.5	8287.0	1385.6	830.3	889.4	946.5	917.9	879.2	828.3	791.6
15138.4	65°	12986.7	9758.1	1172.6	739.7	813.0	860.9	872.1	833.4	780.4	741.7
16884.7	67.5°	14413.0	10681.2	887.4	664.3	734.6	791.6	823.2	785.5	729.5	691.8
17293.2	70°	14334.6	10010.8	677.5	589.9	665.3	723.4	764.1	734.6	674.4	638.8
15707.9	72.5°	12732.0	8374.6	548.1	514.5	595.0	652.0	700.9	678.5	617.4	582.8
11507.4	75°	9353.7	5944.7	438.1	438.1	507.4	577.7	631.7	617.4	561.4	536.9
4831.2	77.5°	3942.8	2494.0	343.3	363.7	421.8	496.2	563.4	568.5	519.6	550.2
1277.6	80°	1048.4	687.7	261.8	286.3	331.1	409.6	490.0	488.0	435.0	406.5
474.8	82.5°	399.4	271.0	186.4	201.7	239.4	313.8	388.2	400.4	347.4	300.5
186.4	85°	153.8	116.1	115.1	121.2	139.6	207.8	293.4	303.6	261.8	222.1
52.0	87.5°	39.7	34.6	42.8	40.8	64.2	111.0	168.1	174.2	160.0	92.7
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>
2815.0
2685.6
2488.9
2309.6
2201.6
2171.1
2195.5
2230.2
2230.2
2179.2
2084.5
1960.2
1816.5
1657.6
1518.0
1454.9
1362.1
1235.8
1131.9
1062.6
1011.7
982.1
908.8
874.1
832.4
791.6
743.7
692.8
641.8
582.8
529.8
499.2
378.0
300.5
229.2
132.4
0.0

F REPORT)