

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: P852709

Luminaire Tested: **GLAN-SB5D-827-U-T4FT**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P852709  
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-SB5D-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40508 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

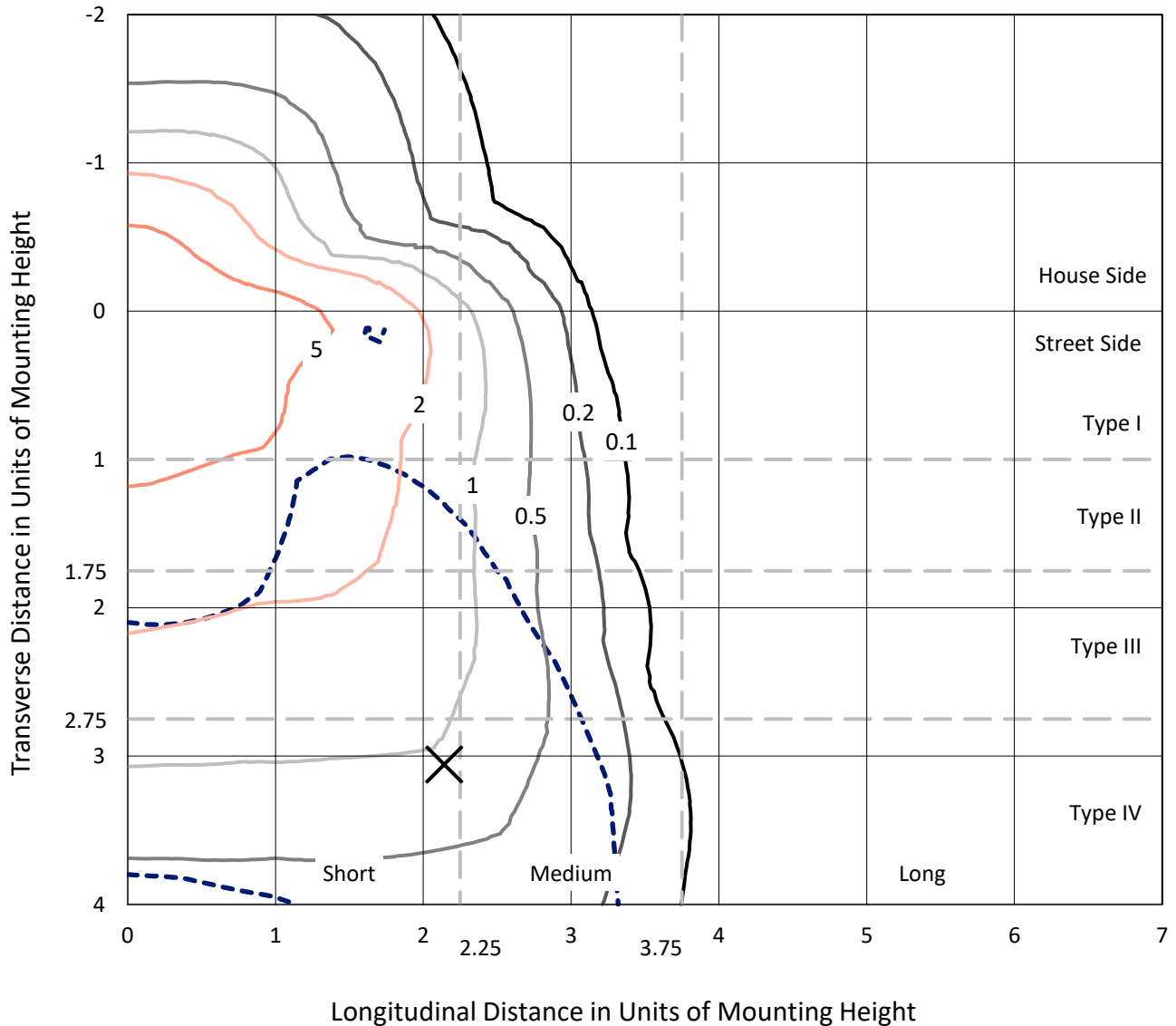
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P852709  
 CATALOG NUMBER: GLAN-SB5D-827-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

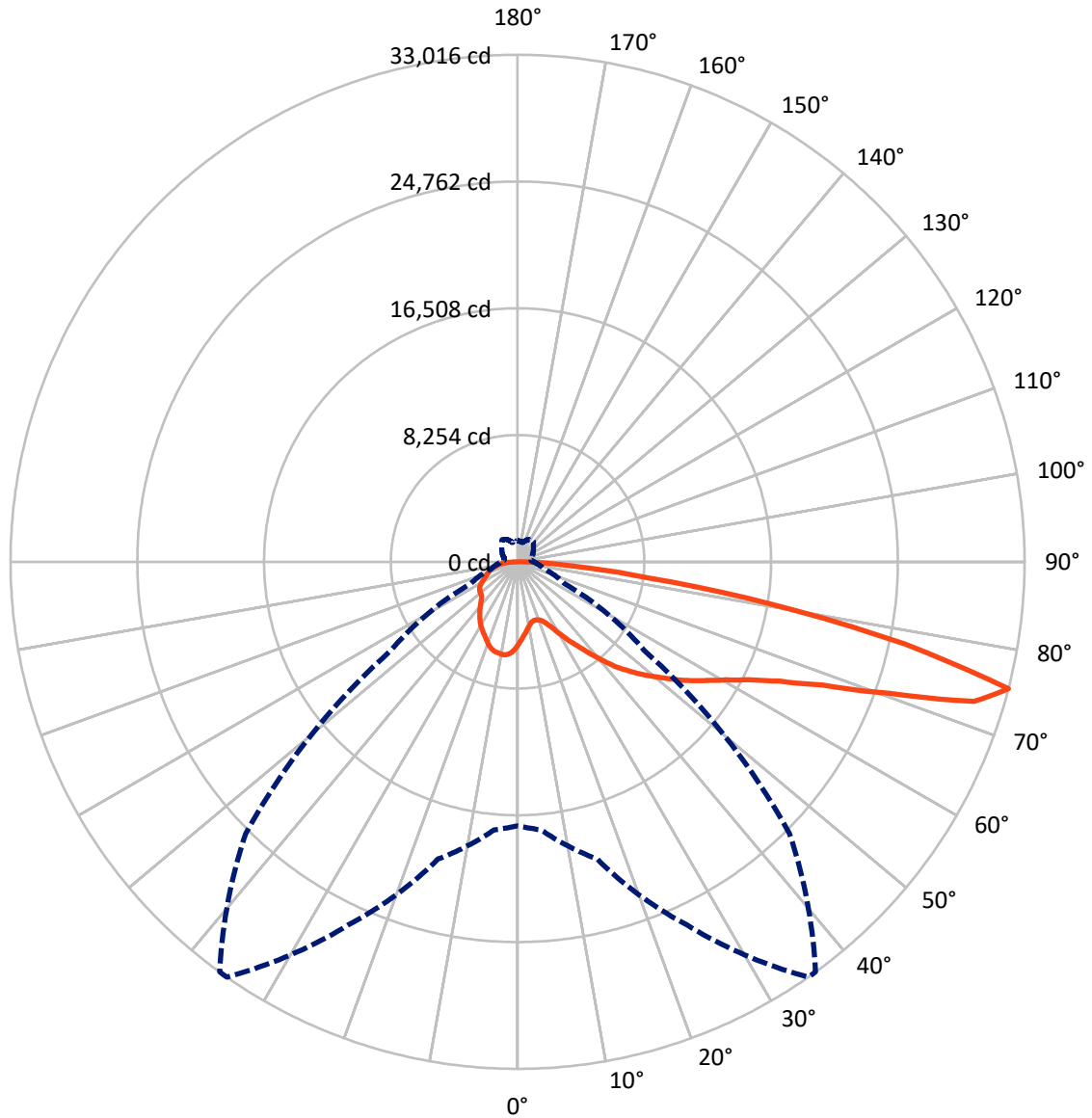
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P852709  
CATALOG NUMBER: GLAN-SB5D-827-U-T4FT

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P852709  
 CATALOG NUMBER: GLAN-SB5D-827-U-T4FT

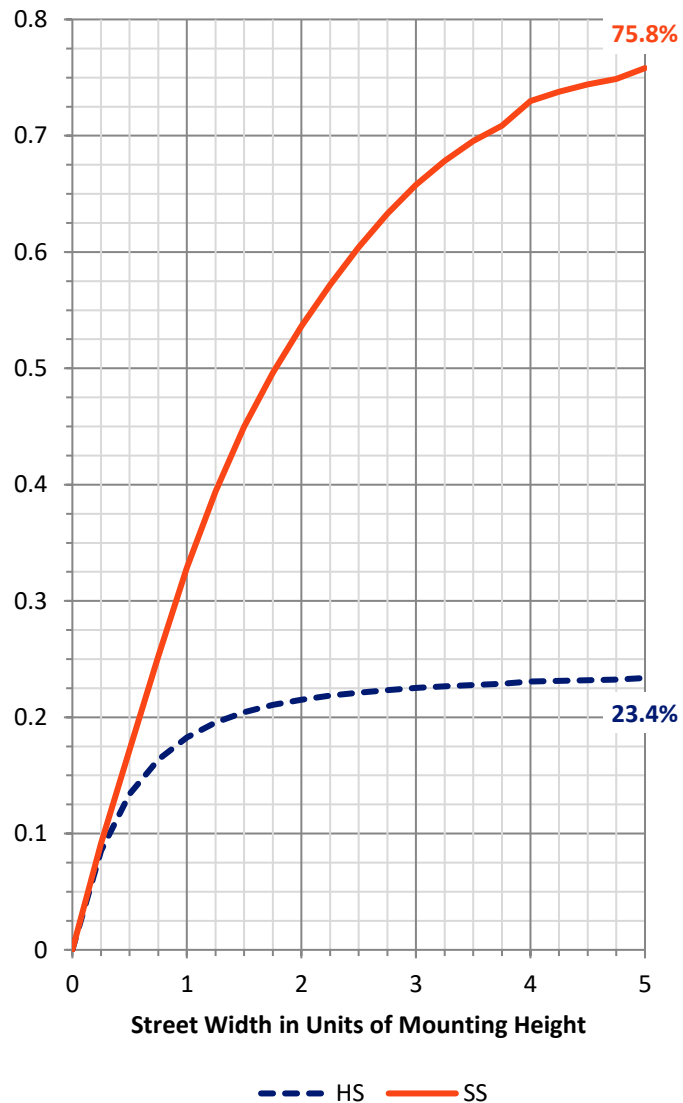
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9639.9	0.0	9639.9
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	30868.1	0.0	30868.1
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	40508.0	0.0	40508.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	511.1	1.3
10°-20°	1474.2	3.6
20°-30°	2475.5	6.1
30°-40°	3847.3	9.5
40°-50°	5710.4	14.1
50°-60°	7883.6	19.5
60°-70°	9564.6	23.6
70°-80°	7904.4	19.5
80°-90°	1136.9	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°	40508.0	100.0
0°-180°	40508.0	100.0

**Coefficient of Utilization**

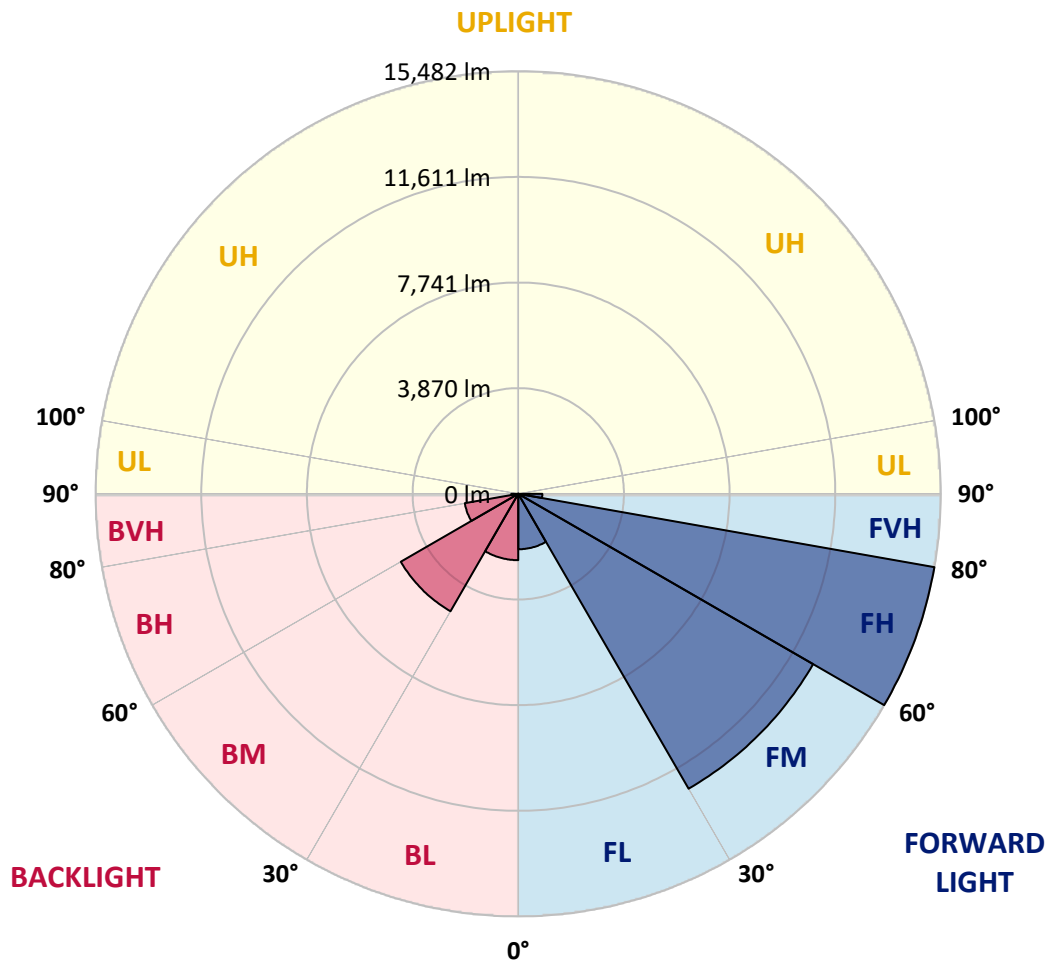


REPORT NUMBER: P852709  
 CATALOG NUMBER: GLAN-SB5D-827-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2031.4	5.0			
FM (30°-60°)	12474.3	30.8			
FH (60°-80°)	15481.6	38.2			G5
FVH (80°-90°)	880.9	2.2			G5
BL (0°-30°)	2429.4	6.0	B3/2500		
BM (30°-60°)	4967.1	12.3	B3/5000		
BH (60°-80°)	1987.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	256.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short



REPORT NUMBER: P852709  
 CATALOG NUMBER: GLAN-SB5D-827-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5398.0	5398.0	5398.0	5398.0	5398.0	5398.0	5398.0	5398.0	5398.0	5398.0
2.5°	4977.5	5008.2	5021.3	5014.7	5047.6	5043.2	5089.2	5146.1	5225.0	5301.6
5°	4594.3	4627.1	4655.6	4681.9	4745.4	4765.1	4837.4	4946.9	5091.4	5238.1
7.5°	4237.3	4265.8	4309.6	4357.8	4465.1	4484.8	4605.2	4776.0	4977.5	5192.1
10°	3946.1	3974.6	4020.6	4075.3	4208.9	4233.0	4386.3	4614.0	4876.8	5148.3
12.5°	3821.3	3830.0	3856.3	3911.1	4027.1	4042.5	4211.1	4471.7	4778.2	5115.5
15°	3814.7	3832.2	3834.4	3862.9	3959.2	3965.8	4121.3	4379.7	4716.9	5108.9
17.5°	3880.4	3893.5	3873.8	3891.4	3972.4	3983.3	4106.0	4335.9	4697.2	5137.4
20°	4055.6	4066.5	4007.4	3983.3	4042.5	4051.2	4171.7	4364.4	4716.9	5196.5
22.5°	4427.9	4434.4	4289.9	4191.4	4195.7	4200.1	4305.2	4480.4	4793.6	5303.8
25°	5008.2	5003.8	4773.9	4583.3	4473.9	4449.8	4519.8	4668.7	4922.8	5446.1
27.5°	5687.0	5654.2	5424.2	5139.6	4900.9	4865.8	4850.5	4914.0	5106.7	5634.5
30°	6453.5	6422.8	6175.4	5803.1	5472.4	5415.5	5271.0	5238.1	5380.4	5890.7
32.5°	7294.4	7274.7	6979.0	6527.9	6085.6	6019.9	5776.8	5689.2	5800.9	6278.3
35°	7999.5	7982.0	7736.7	7272.5	6731.6	6650.6	6403.1	6304.6	6361.5	6775.4
37.5°	8636.7	8628.0	8417.8	8052.1	7493.6	7395.1	7117.0	7084.1	7073.2	7430.1
40°	9228.0	9206.1	8987.1	8794.4	8380.5	8290.7	8045.5	8017.0	7933.8	8236.0
42.5°	9882.8	9825.8	9508.3	9418.5	9306.8	9232.4	9085.7	9090.0	8906.1	9144.8
45°	10417.1	10384.2	10058.0	10005.4	10125.8	10095.2	10222.2	10255.0	9898.1	10097.4
47.5°	10990.8	10960.2	10684.2	10647.0	10973.3	10982.1	11431.0	11441.9	10866.0	11087.2
50°	11698.1	11654.3	11380.6	11426.6	11792.3	11825.2	12646.3	12571.9	11757.3	12092.3
52.5°	12164.6	12190.9	12131.7	12206.2	12705.5	12736.1	13842.0	13651.5	12639.8	13084.3
55°	12508.4	12560.9	12744.9	12915.7	13669.0	13699.7	14969.8	14678.5	13371.2	14004.1
57.5°	12950.7	12876.3	13220.1	13552.9	14584.4	14665.4	16066.9	15668.3	14019.4	14796.8
60°	13585.8	13533.2	13800.4	14293.1	15609.2	15738.4	17227.5	16559.6	14494.6	15425.3
62.5°	14873.4	14742.0	14783.6	15219.4	16901.2	17072.0	18537.0	17337.0	14731.1	15670.5
65°	16798.3	16572.7	16362.5	16664.7	18721.0	18889.6	20015.2	17948.0	14643.5	15195.3
67.5°	19222.4	18999.1	18740.7	19025.4	21401.3	21534.9	21839.3	18291.8	13953.7	13364.6
70°	21221.8	21138.6	21447.3	22618.9	25682.5	25686.9	24178.1	18007.1	12063.8	9475.5
72.5°	20956.8	20906.4	22533.5	26155.5	31078.3	30962.2	26392.0	15852.3	8126.5	4274.6
75°	17192.5	17518.8	20039.3	26092.0	33016.3	33000.9	25036.5	10077.7	3361.4	1771.6
77.5°	9219.2	9736.0	13009.9	19264.1	25774.5	26162.1	17602.0	3525.6	1443.1	1134.3
80°	3006.7	3457.8	5185.6	9808.3	16747.9	16675.7	7544.0	1384.0	987.6	803.7
82.5°	1276.7	1329.2	2316.9	4631.5	8595.1	8461.6	2402.3	794.9	694.2	549.7
85°	499.3	558.4	1022.7	2141.7	3722.7	3641.7	867.2	394.2	444.5	359.1
87.5°	164.2	199.3	365.7	733.6	1158.4	1116.8	212.4	135.8	192.7	164.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P852709  
 CATALOG NUMBER: GLAN-SB5D-827-U-T4FT

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5398.0	0°	5398.0	5398.0	5398.0	5398.0	5398.0	5398.0	5398.0	5398.0	5398.0	5398.0
5413.3	2.5°	5444.0	5479.0	5520.6	5581.9	5634.5	5678.3	5724.3	5752.7	5763.7	5796.5
5422.1	5°	5483.4	5560.0	5662.9	5763.7	5862.2	5921.3	5973.9	6000.2	6024.3	6041.8
5446.1	7.5°	5549.1	5647.6	5809.7	5941.0	6024.3	6072.4	6107.5	6098.7	6107.5	6111.9
5472.4	10°	5606.0	5744.0	5936.7	6061.5	6125.0	6127.2	6118.4	6087.8	6072.4	6074.6
5511.8	12.5°	5673.9	5827.2	6035.2	6140.3	6157.8	6109.7	6072.4	6019.9	6000.2	5991.4
5571.0	15°	5765.9	5941.0	6142.5	6181.9	6138.1	6076.8	6013.3	5927.9	5884.1	5849.1
5671.7	17.5°	5877.5	6070.2	6225.7	6197.3	6103.1	6002.4	5899.4	5770.2	5680.5	5643.2
5809.7	20°	6033.0	6206.0	6289.2	6164.4	6022.1	5868.8	5693.6	5535.9	5452.7	5415.5
5984.8	22.5°	6221.3	6387.8	6350.5	6107.5	5906.0	5660.7	5441.8	5325.7	5284.1	5257.8
6210.4	25°	6446.9	6589.2	6394.3	6024.3	5715.5	5384.8	5216.2	5179.0	5159.3	5139.6
6486.3	27.5°	6740.3	6817.0	6427.2	5901.6	5417.7	5091.4	5030.1	5036.6	5030.1	4997.2
6869.5	30°	7127.9	7112.6	6457.8	5702.4	5076.1	4826.4	4830.8	4859.3	4863.6	4841.7
7403.9	32.5°	7638.2	7482.7	6473.2	5444.0	4749.8	4594.3	4598.7	4629.3	4651.2	4614.0
8102.4	35°	8255.7	7914.1	6449.1	5119.9	4497.9	4373.1	4340.3	4349.0	4355.6	4320.6
8949.9	37.5°	8976.2	8398.1	6341.8	4760.7	4289.9	4156.3	4086.2	4027.1	3992.1	3959.2
9909.0	40°	9766.7	8925.8	6144.7	4410.3	4057.8	3926.4	3821.3	3709.6	3591.3	3547.5
10925.1	42.5°	10594.5	9468.9	5906.0	4075.3	3790.6	3683.3	3571.6	3409.6	3232.2	3142.4
11980.6	45°	11452.9	10025.1	5671.7	3744.6	3516.9	3470.9	3341.7	3146.8	2954.1	2840.2
13038.3	47.5°	12293.8	10550.7	5327.9	3411.8	3260.7	3311.0	3210.3	3030.7	2816.1	2636.6
14087.3	50°	13097.5	11043.4	4765.1	3074.5	3052.6	3262.9	3166.5	2908.1	2662.9	2432.9
15116.5	52.5°	13894.6	11441.9	4044.6	2768.0	2941.0	3249.7	3109.6	2824.9	2524.9	2284.0
16084.4	55°	14571.2	11647.8	3350.5	2505.2	2778.9	3138.0	3041.7	2726.4	2330.0	2073.8
16747.9	57.5°	14956.6	11481.4	2772.3	2246.8	2555.5	2954.1	2925.6	2516.1	2097.9	1900.8
16877.1	60°	14790.2	10806.9	2299.3	2021.2	2343.1	2754.8	2724.2	2308.1	1920.5	1734.4
16185.1	62.5°	13872.7	9521.4	1924.9	1824.1	2150.4	2551.2	2522.7	2148.2	1784.7	1605.2
14347.9	65°	12024.4	7745.5	1633.6	1659.9	1955.5	2305.9	2347.5	2014.7	1677.4	1502.2
11100.3	67.5°	9171.1	5610.4	1405.9	1517.6	1765.0	2065.0	2185.5	1918.3	1587.6	1421.2
6422.8	70°	5227.2	3186.2	1213.2	1379.6	1596.4	1841.7	2060.6	1841.7	1491.3	1353.3
2406.6	72.5°	1981.8	1462.8	1048.9	1241.6	1434.3	1653.3	1922.7	1721.2	1379.6	1276.7
1243.8	75°	1057.7	891.3	882.5	1079.6	1248.2	1469.4	1749.7	1603.0	1296.4	1348.9
860.6	77.5°	720.5	630.7	738.0	924.1	1044.6	1265.7	1565.7	1423.4	1123.4	1119.0
595.6	80°	499.3	446.7	600.0	744.5	808.1	1064.3	1366.5	1221.9	915.4	854.0
367.9	82.5°	300.0	291.2	448.9	556.2	571.5	821.2	1132.1	1024.8	748.9	652.6
219.0	85°	164.2	173.0	286.9	326.3	332.9	573.7	886.9	792.7	575.9	484.0
78.8	87.5°	46.0	59.1	105.1	129.2	159.9	297.8	527.8	470.8	289.1	201.5
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



180°
5398.0
5794.3
6046.2
6118.4
6079.0
5987.0
5860.0
5645.4
5411.1
5262.2
5139.6
5003.8
4852.7
4631.5
4344.7
3981.1
3567.3
3153.4
2831.5
2616.9
2413.2
2257.7
2051.9
1874.5
1708.1
1576.7
1473.8
1394.9
1335.8
1259.2
1392.7
1031.4
816.8
657.0
488.3
201.5
0.0

F REPORT)