

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: P848993

Luminaire Tested: **GLAN-SB5D-827-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848993
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-SB5D-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 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: 40627 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

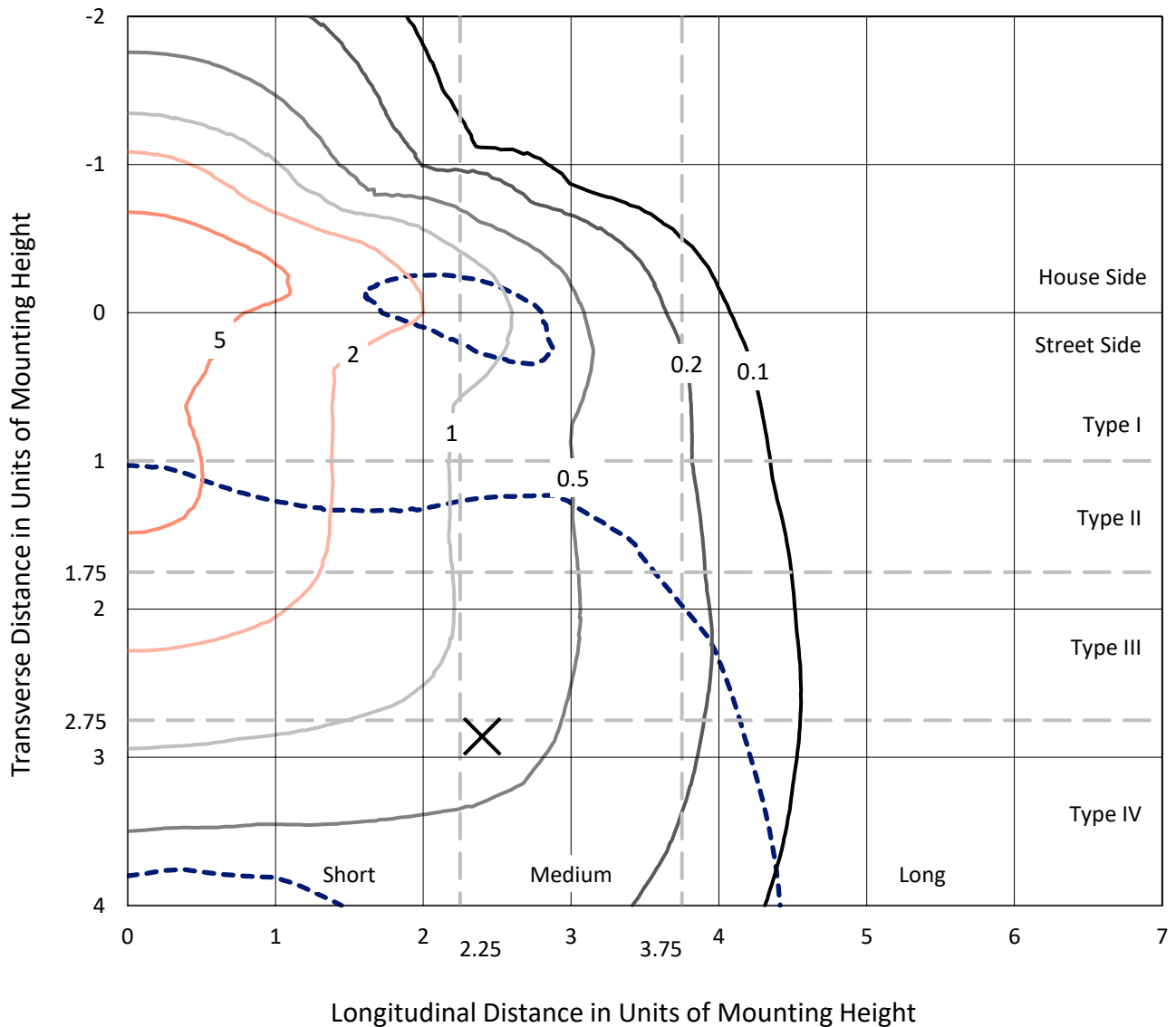
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P848993
 CATALOG NUMBER: GLAN-SB5D-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

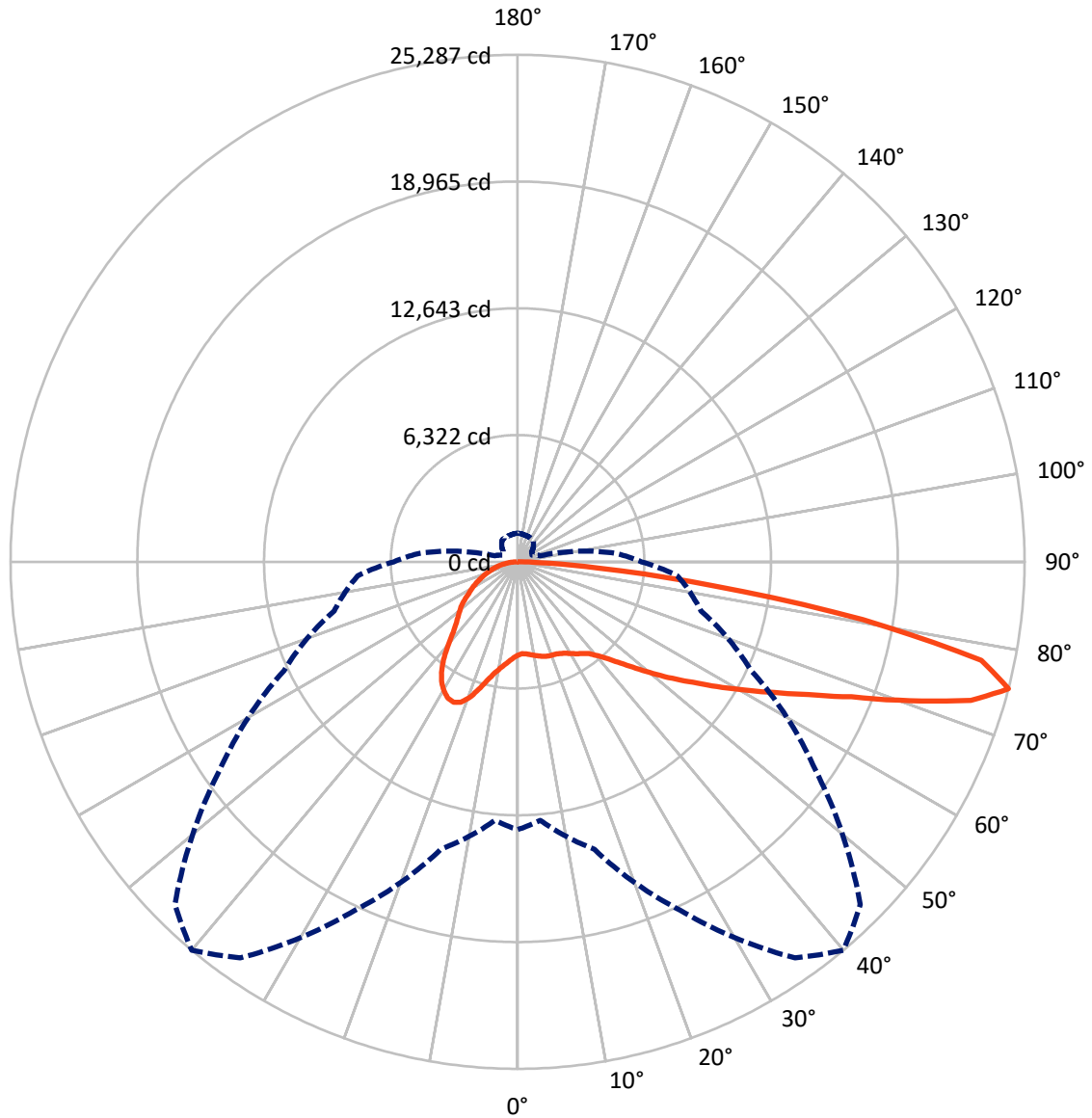
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P848993
CATALOG NUMBER: GLAN-SB5D-827-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P848993
 CATALOG NUMBER: GLAN-SB5D-827-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12587.6	0.0	12587.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	28039.4	0.0	28039.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	40627.0	0.0	40627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.7	1.1
10°-20°	1557.0	3.8
20°-30°	2842.9	7.0
30°-40°	4032.0	9.9
40°-50°	5444.4	13.4
50°-60°	7324.2	18.0
60°-70°	9296.1	22.9
70°-80°	8436.8	20.8
80°-90°	1229.8	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°	40627.0	100.0
0°-180°	40627.0	100.0

Coefficient of Utilization

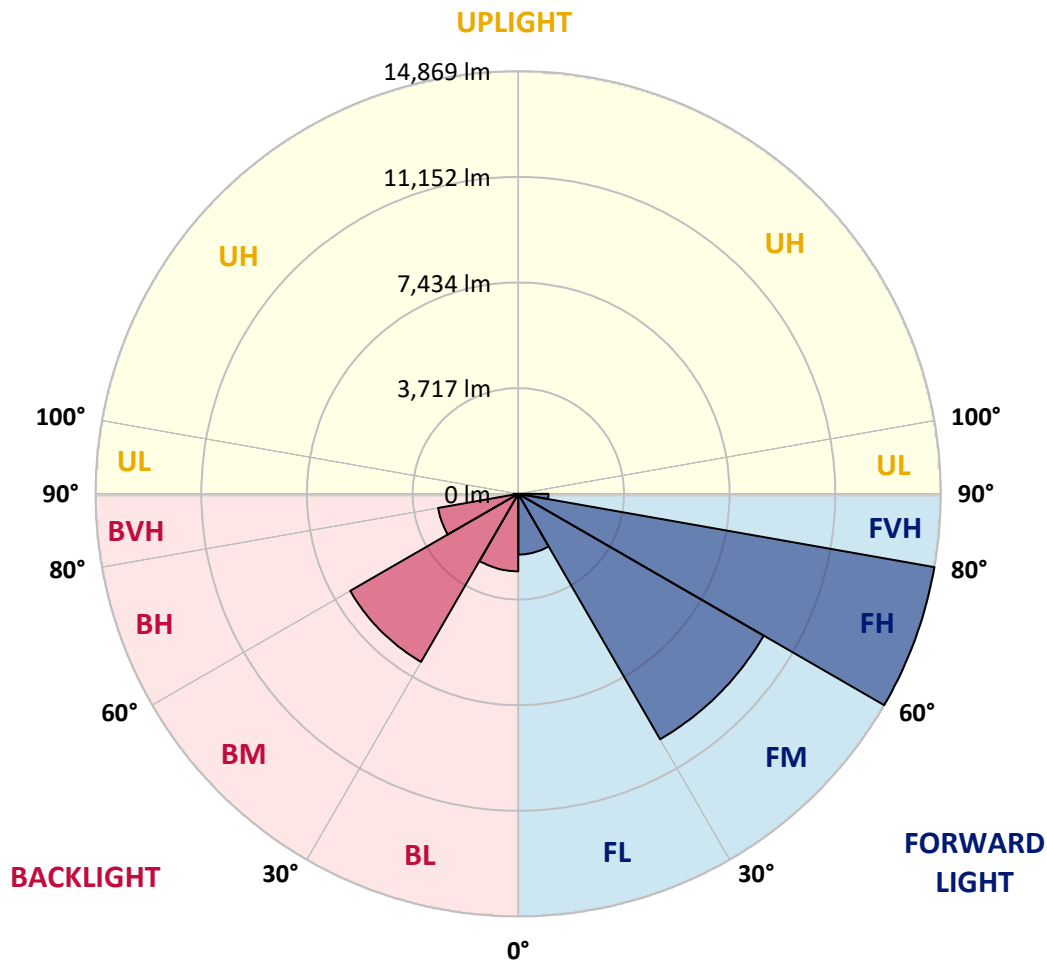


REPORT NUMBER: P848993
 CATALOG NUMBER: GLAN-SB5D-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2137.0	5.3			
FM (30°-60°)	9973.0	24.5			
FH (60°-80°)	14868.9	36.6			G5
FVH (80°-90°)	1060.5	2.6			G5
BL (0°-30°)	2726.6	6.7	B4/5000		
BM (30°-60°)	6827.6	16.8	B4/8500		
BH (60°-80°)	2864.0	7.0	B4/5000		G4/5000
BVH (80°-90°)	169.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium



REPORT NUMBER: P848993
 CATALOG NUMBER: GLAN-SB5D-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4645.8	4645.8	4645.8	4645.8	4645.8	4645.8	4645.8	4645.8	4645.8	4645.8
2.5°	4574.6	4600.5	4594.0	4585.4	4585.4	4587.6	4585.4	4600.5	4615.6	4630.7
5°	4622.0	4647.9	4635.0	4624.2	4615.6	4613.4	4607.0	4604.8	4613.4	4632.8
7.5°	4714.7	4740.6	4721.2	4701.8	4684.5	4675.9	4667.3	4654.4	4647.9	4658.7
10°	4818.1	4844.0	4820.3	4785.8	4757.8	4747.0	4738.4	4725.5	4716.9	4723.3
12.5°	4921.6	4947.4	4915.1	4867.7	4831.1	4824.6	4813.8	4809.5	4807.4	4805.2
15°	5018.5	5040.1	4999.1	4943.1	4904.3	4893.6	4882.8	4889.2	4900.0	4912.9
17.5°	5094.0	5115.5	5055.2	4981.9	4945.3	4941.0	4934.5	4956.0	4986.2	5018.5
20°	5162.9	5184.5	5106.9	5007.8	4964.7	4964.7	4966.8	5012.1	5055.2	5102.6
22.5°	5259.9	5277.1	5182.3	5046.5	4984.1	4988.4	5005.6	5050.9	5104.7	5169.4
25°	5404.2	5417.2	5300.8	5119.8	5048.7	5061.6	5076.7	5098.3	5150.0	5225.4
27.5°	5637.0	5647.7	5494.7	5249.1	5141.4	5162.9	5184.5	5169.4	5193.1	5257.7
30°	5964.5	5971.0	5777.0	5451.6	5298.7	5309.4	5313.7	5251.3	5206.0	5257.7
32.5°	6352.4	6350.2	6119.6	5697.3	5477.5	5466.7	5430.1	5307.3	5201.7	5246.9
35°	6953.5	6929.8	6632.5	6042.1	5680.1	5613.3	5527.1	5369.8	5223.2	5236.2
37.5°	7949.1	7875.8	7464.2	6606.6	5981.7	5811.5	5684.4	5471.0	5270.6	5231.9
40°	9071.7	8979.1	8526.5	7380.2	6434.2	6160.6	5955.9	5615.4	5348.2	5251.3
42.5°	10403.4	10271.9	9785.0	8291.7	7007.4	6610.9	6302.8	5798.6	5462.4	5313.7
45°	12038.9	11864.3	11174.8	9319.5	7729.3	7201.3	6789.8	6076.5	5637.0	5434.4
47.5°	13691.6	13734.7	12754.3	10496.0	8595.5	7929.7	7399.6	6494.6	5891.2	5628.3
50°	15447.8	15477.9	14325.1	11799.7	9578.1	8752.8	8084.8	6962.2	6244.6	5904.2
52.5°	16818.2	16822.5	15751.6	13163.7	10601.6	9657.8	8823.9	7496.6	6654.0	6270.5
55°	17675.8	17665.1	16751.4	14454.4	11778.1	10608.1	9642.7	8104.2	7153.9	6701.4
57.5°	18298.6	18266.3	17441.0	15564.1	13032.2	11730.7	10569.3	8793.7	7744.4	7214.3
60°	18535.6	18516.2	17908.6	16523.0	14351.0	12971.9	11638.1	9565.2	8414.5	7819.8
62.5°	18626.1	18662.7	18367.5	17451.7	15762.4	14346.7	12812.4	10487.4	9168.7	8505.0
65°	18945.0	19011.8	18951.5	18667.0	17356.9	15956.3	14370.4	11584.2	9991.8	9239.8
67.5°	19576.4	19643.2	19669.0	20121.5	19304.9	17962.4	16314.0	12950.4	10955.0	10002.6
70°	19561.3	19541.9	19998.7	21278.7	21744.1	20740.0	18934.2	14631.1	12103.5	10636.1
72.5°	17805.1	17650.0	18729.5	21265.7	23773.9	23640.3	22134.1	16798.8	13094.7	10713.7
75°	13357.6	12943.9	14850.9	19164.8	24112.2	25286.6	24168.3	18143.4	12859.9	9466.0
77.5°	5712.4	5296.5	7544.0	14187.2	21580.3	23638.2	22302.2	15829.2	10265.5	6259.7
80°	1495.4	1493.3	2279.8	6432.1	14676.4	17456.0	15314.2	10222.4	5865.4	2236.7
82.5°	618.4	603.3	838.2	2501.7	7171.2	9795.7	7994.3	4559.6	2118.2	605.5
85°	230.6	228.4	407.3	864.1	2529.7	4040.3	2924.1	1165.7	527.9	295.2
87.5°	64.6	62.5	88.3	299.5	616.3	935.2	499.9	191.8	148.7	116.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P848993
 CATALOG NUMBER: GLAN-SB5D-827-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4645.8	0°	4645.8	4645.8	4645.8	4645.8	4645.8	4645.8	4645.8	4645.8	4645.8	4645.8
4654.4	2.5°	4660.8	4671.6	4691.0	4706.1	4725.5	4747.0	4777.2	4796.6	4816.0	4828.9
4665.1	5°	4680.2	4703.9	4753.5	4803.1	4861.2	4915.1	4977.6	5022.8	5059.5	5070.2
4703.9	7.5°	4723.3	4762.1	4846.1	4930.2	5022.8	5111.2	5201.7	5279.3	5341.8	5365.5
4772.9	10°	4798.7	4850.5	4969.0	5087.5	5210.3	5346.1	5462.4	5574.5	5662.8	5699.4
4854.8	12.5°	4893.6	4958.2	5113.3	5277.1	5447.3	5634.8	5785.6	5923.5	6033.4	6083.0
4969.0	15°	5016.4	5100.4	5298.7	5518.4	5768.4	6029.1	6220.9	6373.9	6496.7	6557.1
5087.5	17.5°	5150.0	5262.0	5512.0	5843.8	6201.5	6544.1	6768.2	6880.3	7007.4	7065.6
5197.4	20°	5279.3	5417.2	5774.9	6257.5	6733.8	7097.9	7278.9	7309.1	7317.7	7324.2
5300.8	22.5°	5412.9	5598.2	6104.6	6779.0	7289.7	7541.8	7567.7	7438.4	7257.4	7173.3
5402.1	25°	5559.4	5805.0	6535.5	7354.3	7768.1	7798.2	7600.0	7285.4	6942.8	6785.5
5484.0	27.5°	5701.6	6044.2	7052.7	7903.8	8112.8	7847.8	7421.1	6975.1	6561.4	6395.5
5542.1	30°	5843.8	6317.9	7623.7	8384.3	8270.1	7725.0	7138.9	6641.1	6225.2	6050.7
5593.9	32.5°	5988.2	6636.8	8280.9	8731.3	8242.1	7464.2	6787.6	6266.2	5899.8	5716.7
5639.1	35°	6152.0	7029.0	8903.6	8920.9	8054.6	7080.7	6324.3	5818.0	5499.1	5352.5
5693.0	37.5°	6365.3	7526.7	9453.1	8968.3	7727.1	6518.3	5749.0	5287.9	5025.0	4958.2
5772.7	40°	6630.3	8125.8	9873.3	8892.9	7242.3	5835.2	5119.8	4751.3	4602.7	4617.7
5880.5	42.5°	6975.1	8795.9	10168.5	8698.9	6567.8	5130.6	4568.2	4404.4	4475.5	4535.9
6042.1	45°	7423.3	9491.9	10351.7	8369.2	5805.0	4533.7	4242.8	4281.6	4335.5	4341.9
6302.8	47.5°	7996.5	10196.5	10472.3	7871.5	5027.2	4113.5	4035.9	4044.6	4033.8	3988.5
6692.8	50°	8711.9	10881.7	10580.1	7212.1	4365.6	3850.6	3747.2	3717.0	3568.4	3421.8
7212.1	52.5°	9526.4	11510.9	10625.3	6393.3	3850.6	3630.8	3462.8	3273.1	2995.2	2949.9
7865.0	55°	10431.4	12092.7	10509.0	5387.0	3417.5	3348.6	3094.3	2865.9	2835.7	2796.9
8724.8	57.5°	11513.1	12719.8	10271.9	4264.4	2973.6	3018.9	2771.1	2796.9	2743.1	2682.7
9830.2	60°	12696.1	13368.4	9856.1	3240.8	2514.7	2607.3	2687.0	2684.9	2669.8	2620.2
10996.0	62.5°	13760.6	13795.0	9037.2	2482.3	2111.7	2288.4	2506.0	2503.9	2491.0	2462.9
12213.4	65°	14394.1	13730.4	7671.1	1954.4	1779.9	2025.5	2260.4	2277.6	2279.8	2277.6
13129.2	67.5°	14282.0	12974.1	5796.4	1555.8	1506.2	1758.3	2016.9	2040.6	2057.8	2062.1
13245.6	70°	13015.0	11312.7	3779.5	1241.2	1262.7	1523.4	1786.3	1810.0	1825.1	1842.4
11493.7	72.5°	10144.8	8317.5	2163.4	1004.1	1049.4	1320.9	1557.9	1585.9	1594.6	1626.9
7998.6	75°	6182.1	4891.4	1167.9	790.8	861.9	1129.1	1331.7	1364.0	1379.1	1417.9
3928.2	77.5°	2939.1	2118.2	665.8	616.3	693.8	922.3	1124.8	1161.4	1120.5	1142.0
1083.9	80°	993.4	786.5	420.2	469.7	530.1	719.7	900.7	937.3	851.1	846.8
359.9	82.5°	346.9	318.9	267.2	312.4	342.6	515.0	680.9	728.3	633.5	631.4
161.6	85°	135.8	129.3	148.7	170.2	204.7	316.8	448.2	471.9	390.0	314.6
47.4	87.5°	28.0	30.2	36.6	38.8	62.5	109.9	161.6	198.2	157.3	133.6
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>
4645.8
4820.3
5074.6
5367.6
5701.6
6083.0
6552.8
7063.4
7341.4
7197.0
6809.2
6414.8
6070.1
5740.4
5384.8
5005.6
4669.5
4591.9
4385.0
4023.0
3441.2
2965.0
2803.4
2672.0
2603.0
2452.2
2277.6
2066.5
1851.0
1639.8
1422.2
1124.8
838.2
601.2
310.3
122.8
0.0

F REPORT)