

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: McGRAW-EDISON

Report Number: P944142

Luminaire Tested: **GALN-SB8D-950-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944142  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-950-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

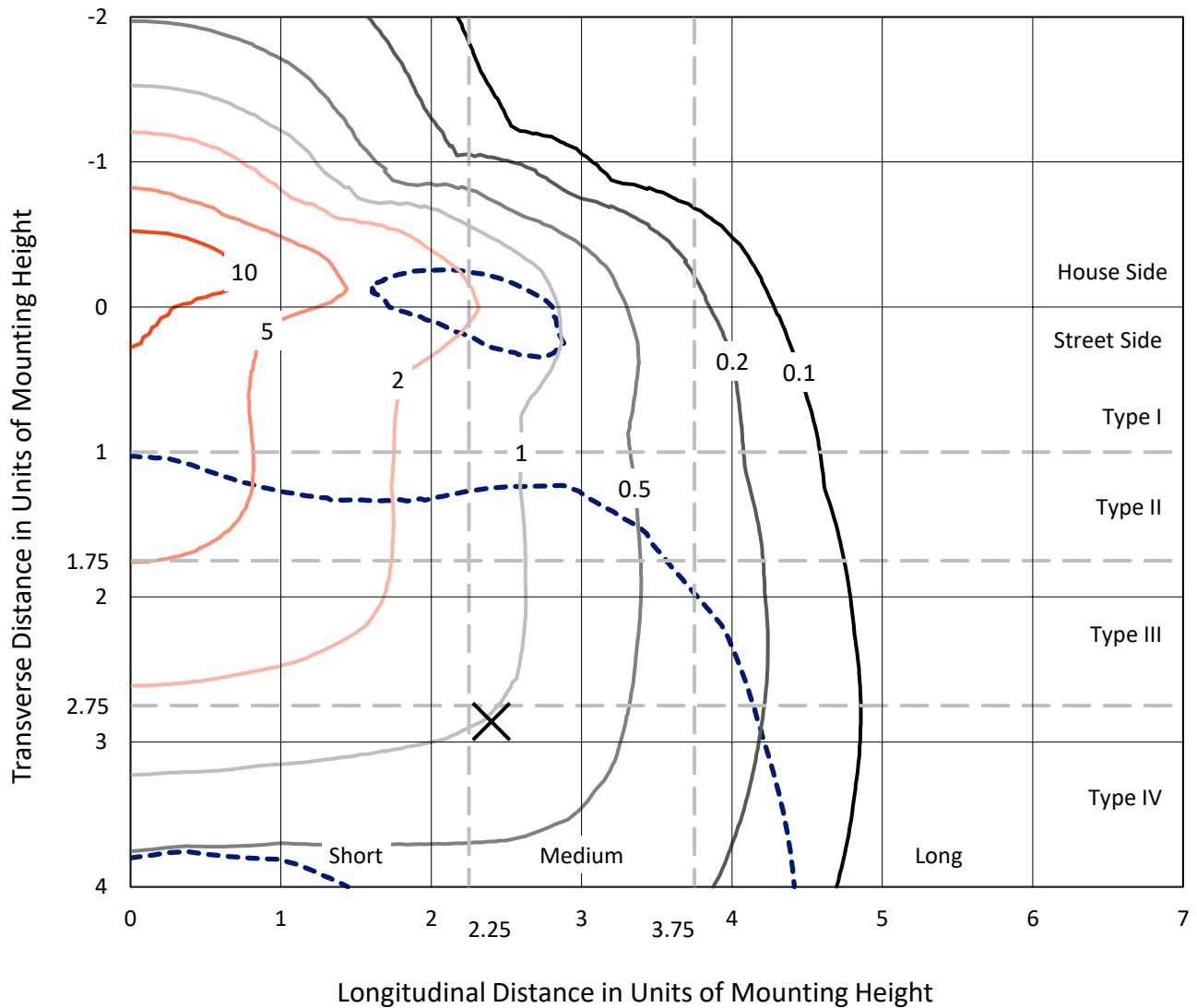
Lumens per Lamp: N/A  
Luminaire Lumens: 56742 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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: P944142  
 CATALOG NUMBER: GALN-SB8D-950-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

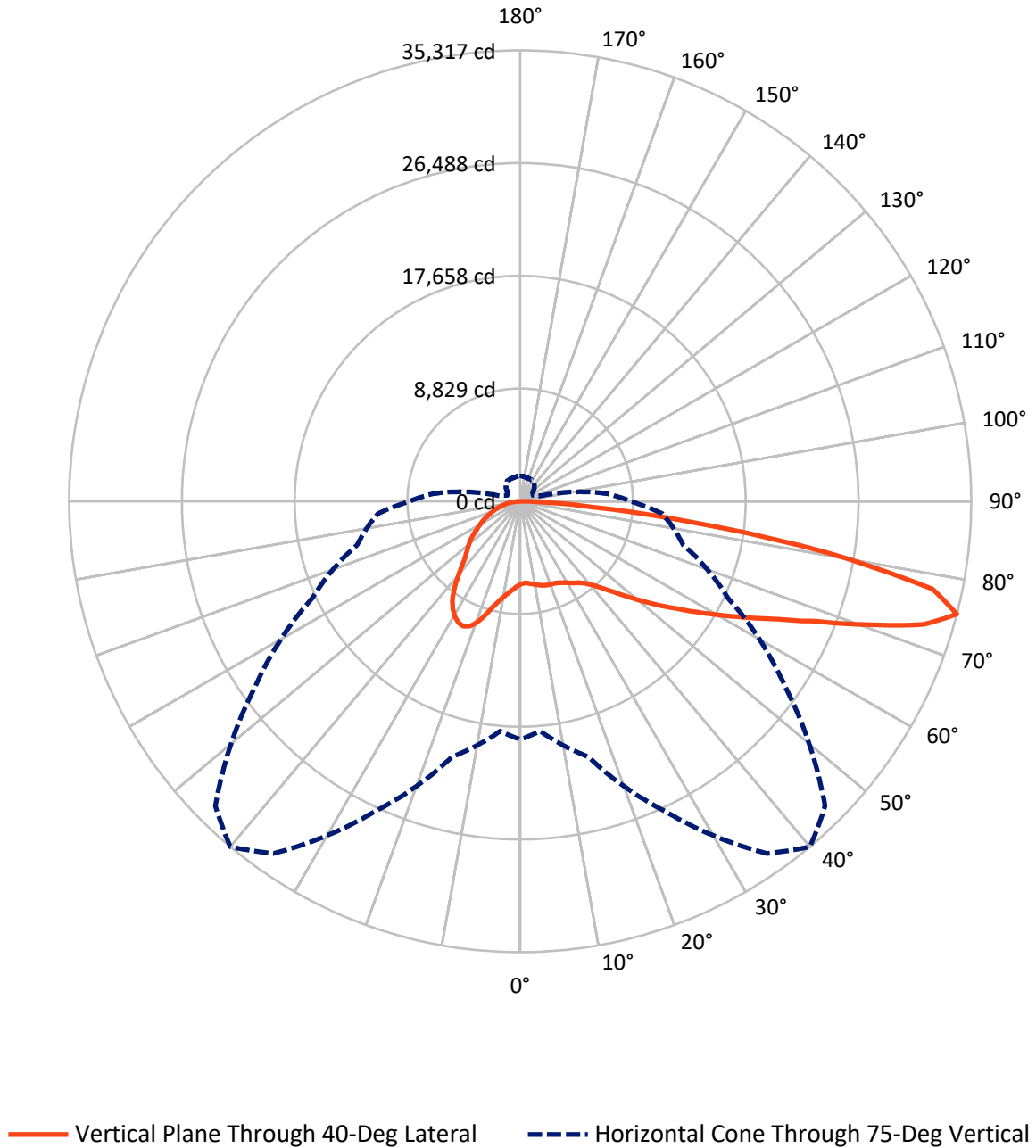
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P944142  
CATALOG NUMBER: GALN-SB8D-950-U-SL4

### Luminous Intensity Polar Plot



REPORT NUMBER: P944142  
 CATALOG NUMBER: GALN-SB8D-950-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17580.6	0.0	17580.6
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	39161.4	0.0	39161.4
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	56742.0	0.0	56742.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	647.7	1.1
10°-20°	2174.6	3.8
20°-30°	3970.6	7.0
30°-40°	5631.3	9.9
40°-50°	7604.0	13.4
50°-60°	10229.4	18.0
60°-70°	12983.5	22.9
70°-80°	11783.3	20.8
80°-90°	1717.6	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°	56742.0	100.0
0°-180°	56742.0	100.0

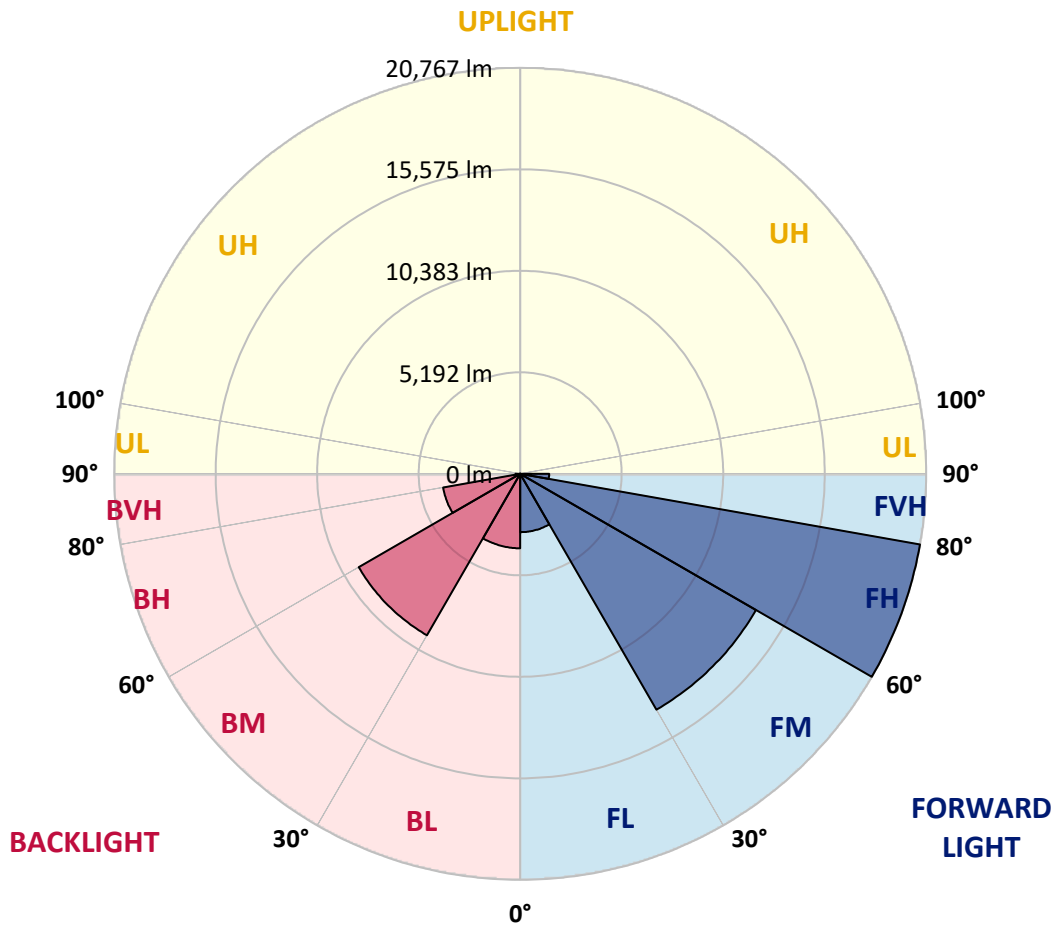


REPORT NUMBER: P944142  
 CATALOG NUMBER: GALN-SB8D-950-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2984.7	5.3			
FM (30°-60°)	13928.9	24.5			
FH (60°-80°)	20766.7	36.6			G5
FVH (80°-90°)	1481.2	2.6			G5
BL (0°-30°)	3808.1	6.7	B4/5000		
BM (30°-60°)	9535.9	16.8	B5		
BH (60°-80°)	4000.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	236.5	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type IV Medium



REPORT NUMBER: P944142  
 CATALOG NUMBER: GALN-SB8D-950-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	6488.5	6488.5	6488.5	6488.5	6488.5	6488.5	6488.5	6488.5	6488.5	6488.5
2.5°	6389.2	6425.3	6416.3	6404.3	6404.3	6407.3	6404.3	6425.3	6446.4	6467.5
5°	6455.4	6491.5	6473.5	6458.4	6446.4	6443.4	6434.4	6431.3	6443.4	6470.5
7.5°	6584.8	6620.9	6593.9	6566.8	6542.7	6530.7	6518.6	6500.6	6491.5	6506.6
10°	6729.3	6765.4	6732.3	6684.1	6645.0	6630.0	6617.9	6599.9	6587.8	6596.9
12.5°	6873.7	6909.9	6864.7	6798.5	6747.3	6738.3	6723.3	6717.2	6714.2	6711.2
15°	7009.2	7039.3	6982.1	6903.8	6849.7	6834.6	6819.6	6828.6	6843.6	6861.7
17.5°	7114.5	7144.6	7060.3	6958.0	6906.8	6900.8	6891.8	6921.9	6964.0	7009.2
20°	7210.8	7240.9	7132.6	6994.1	6933.9	6933.9	6936.9	7000.1	7060.3	7126.5
22.5°	7346.2	7370.3	7237.9	7048.3	6961.0	6967.0	6991.1	7054.3	7129.6	7219.8
25°	7547.9	7565.9	7403.4	7150.6	7051.3	7069.4	7090.4	7120.5	7192.8	7298.1
27.5°	7872.9	7887.9	7674.3	7331.2	7180.7	7210.8	7240.9	7219.8	7252.9	7343.2
30°	8330.3	8339.4	8068.5	7614.1	7400.4	7415.5	7421.5	7334.2	7271.0	7343.2
32.5°	8872.1	8869.1	8547.0	7957.2	7650.2	7635.2	7584.0	7412.4	7265.0	7328.2
35°	9711.7	9678.6	9263.3	8438.7	7933.1	7839.8	7719.4	7499.7	7295.1	7313.1
37.5°	11102.1	10999.8	10425.0	9227.2	8354.4	8116.7	7939.1	7641.2	7361.3	7307.1
40°	12670.1	12540.7	11908.7	10307.6	8986.4	8604.2	8318.3	7842.8	7469.6	7334.2
42.5°	14530.0	14346.4	13666.2	11580.6	9787.0	9233.2	8802.8	8098.6	7629.1	7421.5
45°	16814.2	16570.4	15607.4	13016.2	10795.1	10057.8	9483.0	8486.8	7872.9	7590.0
47.5°	19122.5	19182.7	17813.3	14659.4	12005.0	11075.0	10334.7	9070.7	8228.0	7860.9
50°	21575.2	21617.4	20007.3	16480.1	13377.3	12224.7	11291.7	9723.8	8721.6	8246.1
52.5°	23489.3	23495.3	21999.6	18385.2	14806.8	13488.7	12324.0	10470.1	9293.4	8757.7
55°	24687.1	24672.0	23396.0	20187.9	16450.0	14815.9	13467.6	11318.8	9991.6	9359.6
57.5°	25556.8	25511.7	24359.0	21737.8	18201.6	16383.8	14761.7	12281.8	10816.2	10075.9
60°	25887.9	25860.8	25012.1	23077.0	20043.4	18117.3	16254.4	13359.3	11752.2	10921.5
62.5°	26014.3	26065.4	25653.1	24374.1	22014.6	20037.4	17894.6	14647.3	12805.5	11878.6
65°	26459.7	26553.0	26468.7	26071.5	24241.7	22285.5	20070.5	16179.2	13955.1	12904.8
67.5°	27341.5	27434.8	27470.9	28102.9	26962.3	25087.4	22785.1	18087.2	15300.4	13970.2
70°	27320.4	27293.3	27931.3	29719.0	30369.1	28966.6	26444.6	20434.6	16904.5	14855.0
72.5°	24867.7	24651.0	26158.7	29700.9	33204.0	33017.4	30913.8	23462.2	18288.8	14963.3
75°	18656.0	18078.2	20741.6	26766.7	33676.5	35316.7	33754.8	25340.2	17960.8	13220.8
77.5°	7978.2	7397.4	10536.3	19814.7	30140.3	33014.4	31148.5	22107.9	14337.3	8742.7
80°	2088.6	2085.6	3184.1	8983.4	20497.8	24380.1	21388.7	14277.2	8191.9	3123.9
82.5°	863.7	842.7	1170.7	3494.1	10015.7	13681.3	11165.3	6368.1	2958.4	845.7
85°	322.0	319.0	568.8	1206.8	3533.2	5642.8	4083.9	1628.1	737.3	412.3
87.5°	90.3	87.3	123.4	418.3	860.7	1306.1	698.2	267.8	207.7	162.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944142  
 CATALOG NUMBER: GALN-SB8D-950-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6488.5	0°	6488.5	6488.5	6488.5	6488.5	6488.5	6488.5	6488.5	6488.5	6488.5	6488.5
6500.6	2.5°	6509.6	6524.6	6551.7	6572.8	6599.9	6630.0	6672.1	6699.2	6726.3	6744.3
6515.6	5°	6536.7	6569.8	6639.0	6708.2	6789.5	6864.7	6952.0	7015.2	7066.4	7081.4
6569.8	7.5°	6596.9	6651.0	6768.4	6885.8	7015.2	7138.6	7265.0	7373.3	7460.6	7493.7
6666.1	10°	6702.2	6774.4	6940.0	7105.5	7277.0	7466.6	7629.1	7785.6	7909.0	7960.2
6780.4	12.5°	6834.6	6924.9	7141.6	7370.3	7608.1	7869.9	8080.6	8273.2	8426.7	8495.9
6940.0	15°	7006.2	7123.5	7400.4	7707.4	8056.5	8420.6	8688.5	8902.2	9073.7	9158.0
7105.5	17.5°	7192.8	7349.2	7698.4	8161.8	8661.4	9139.9	9452.9	9609.4	9787.0	9868.2
7259.0	20°	7373.3	7565.9	8065.5	8739.6	9404.7	9913.4	10166.2	10208.3	10220.3	10229.4
7403.4	22.5°	7559.9	7818.7	8526.0	9467.9	10181.2	10533.3	10569.4	10388.9	10136.1	10018.7
7544.9	25°	7764.6	8107.6	9127.9	10271.5	10849.3	10891.4	10614.6	10175.2	9696.7	9477.0
7659.2	27.5°	7963.2	8441.7	9850.2	11038.9	11330.8	10960.7	10364.8	9741.8	9164.0	8932.3
7740.5	30°	8161.8	8823.9	10647.7	11710.0	11550.5	10789.1	9970.5	9275.3	8694.5	8450.7
7812.7	32.5°	8363.5	9269.3	11565.6	12194.6	11511.4	10425.0	9480.0	8751.7	8240.1	7984.3
7875.9	35°	8592.2	9817.1	12435.3	12459.4	11249.6	9889.3	8832.9	8125.7	7680.3	7475.6
7951.1	37.5°	8890.1	10512.3	13202.8	12525.6	10792.1	9103.8	8029.4	7385.4	7018.2	6924.9
8062.5	40°	9260.3	11348.9	13789.6	12420.3	10115.0	8149.8	7150.6	6636.0	6428.3	6449.4
8213.0	42.5°	9741.8	12284.9	14201.9	12149.4	9173.0	7165.7	6380.2	6151.5	6250.8	6335.0
8438.7	45°	10367.8	13256.9	14457.7	11689.0	8107.6	6332.0	5925.7	5979.9	6055.2	6064.2
8802.8	47.5°	11168.3	14241.0	14626.3	10993.8	7021.2	5745.2	5636.8	5648.9	5633.8	5570.6
9347.6	50°	12167.5	15198.1	14776.7	10072.9	6097.3	5378.0	5233.6	5191.4	4983.8	4779.1
10072.9	52.5°	13305.1	16076.9	14839.9	8929.2	5378.0	5071.0	4836.3	4571.5	4183.2	4120.0
10984.7	55°	14569.1	16889.4	14677.4	7523.8	4773.1	4676.8	4321.7	4002.7	3960.5	3906.4
12185.5	57.5°	16079.9	17765.2	14346.4	5955.8	4153.1	4216.3	3870.2	3906.4	3831.1	3746.9
13729.4	60°	17732.1	18671.1	13765.5	4526.3	3512.1	3641.5	3752.9	3749.9	3728.8	3659.6
15357.6	62.5°	19218.8	19266.9	12621.9	3467.0	2949.3	3196.1	3500.1	3497.1	3479.0	3439.9
17058.0	65°	20103.6	19176.7	10713.9	2729.6	2485.9	2828.9	3157.0	3181.1	3184.1	3181.1
18337.0	67.5°	19947.1	18120.3	8095.6	2172.9	2103.7	2455.8	2816.9	2850.0	2874.1	2880.1
18499.5	70°	18177.5	15800.0	5278.7	1733.5	1763.6	2127.7	2494.9	2528.0	2549.1	2573.1
16052.8	72.5°	14168.8	11616.7	3021.6	1402.4	1465.6	1844.8	2175.9	2215.0	2227.0	2272.2
11171.3	75°	8634.3	6831.6	1631.2	1104.5	1203.8	1577.0	1859.9	1905.0	1926.1	1980.3
5486.4	77.5°	4105.0	2958.4	929.9	860.7	969.1	1288.1	1571.0	1622.1	1564.9	1595.0
1513.8	80°	1387.4	1098.5	586.9	656.1	740.3	1005.2	1258.0	1309.1	1188.8	1182.7
502.6	82.5°	484.5	445.4	373.2	436.4	478.5	719.3	951.0	1017.2	884.8	881.8
225.7	85°	189.6	180.6	207.7	237.8	285.9	442.4	626.0	659.1	544.7	439.4
66.2	87.5°	39.1	42.1	51.2	54.2	87.3	153.5	225.7	276.9	219.7	186.6
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>
6488.5
6732.3
7087.4
7496.7
7963.2
8495.9
9151.9
9865.2
10253.4
10051.8
9510.1
8959.3
8477.8
8017.4
7520.8
6991.1
6521.6
6413.3
6124.4
5618.8
4806.2
4141.1
3915.4
3731.8
3635.5
3424.8
3181.1
2886.1
2585.2
2290.2
1986.3
1571.0
1170.7
839.7
433.4
171.5
0.0

F REPORT)