

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: P942822

Luminaire Tested: **GALN-SB7A-735-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942822  
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-SB7A-735-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

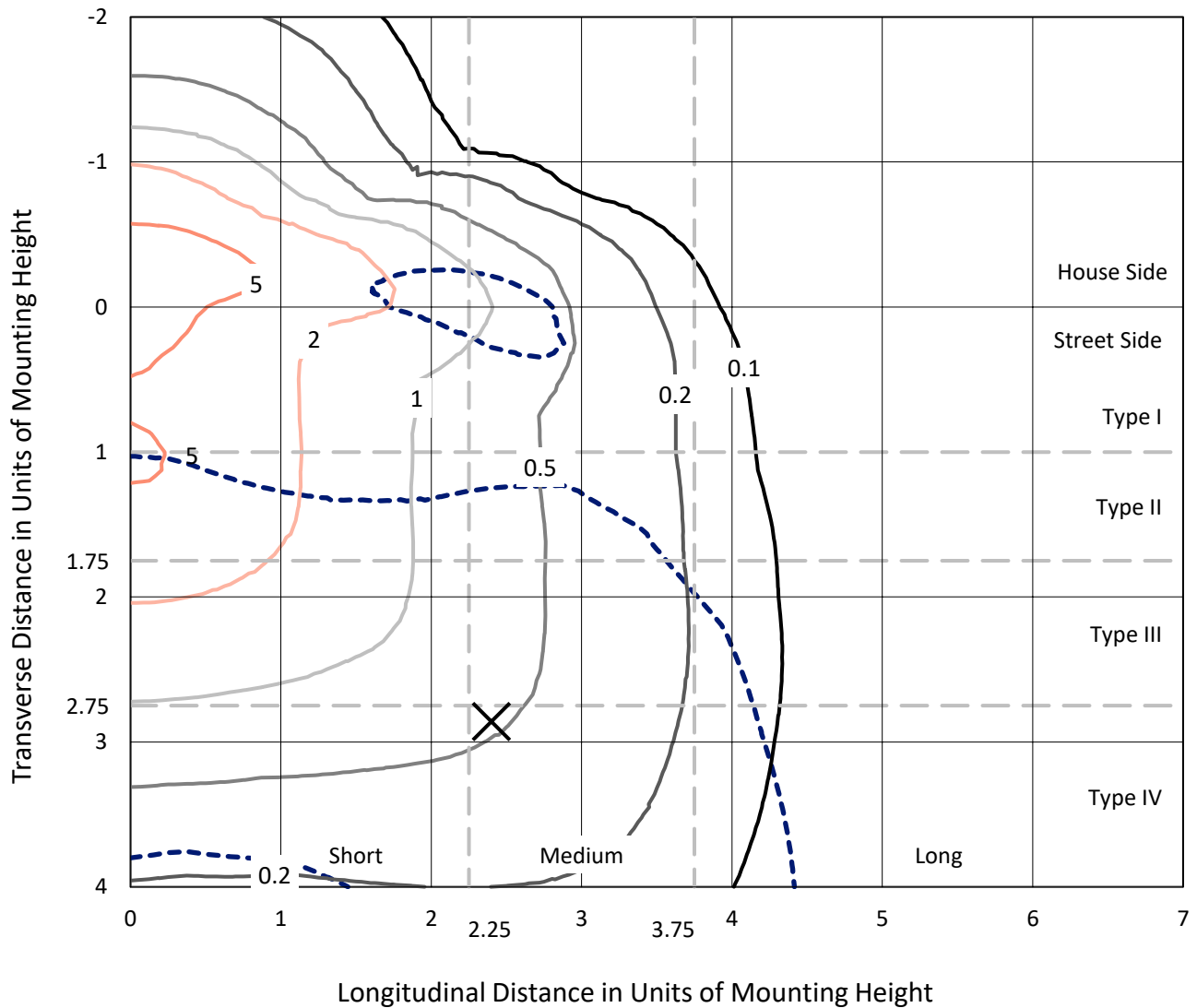
Lumens per Lamp: N/A  
Luminaire Lumens: 31623 lumens  
Efficiency: N/A  
Efficacy: 158.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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: P942822  
 CATALOG NUMBER: GALN-SB7A-735-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

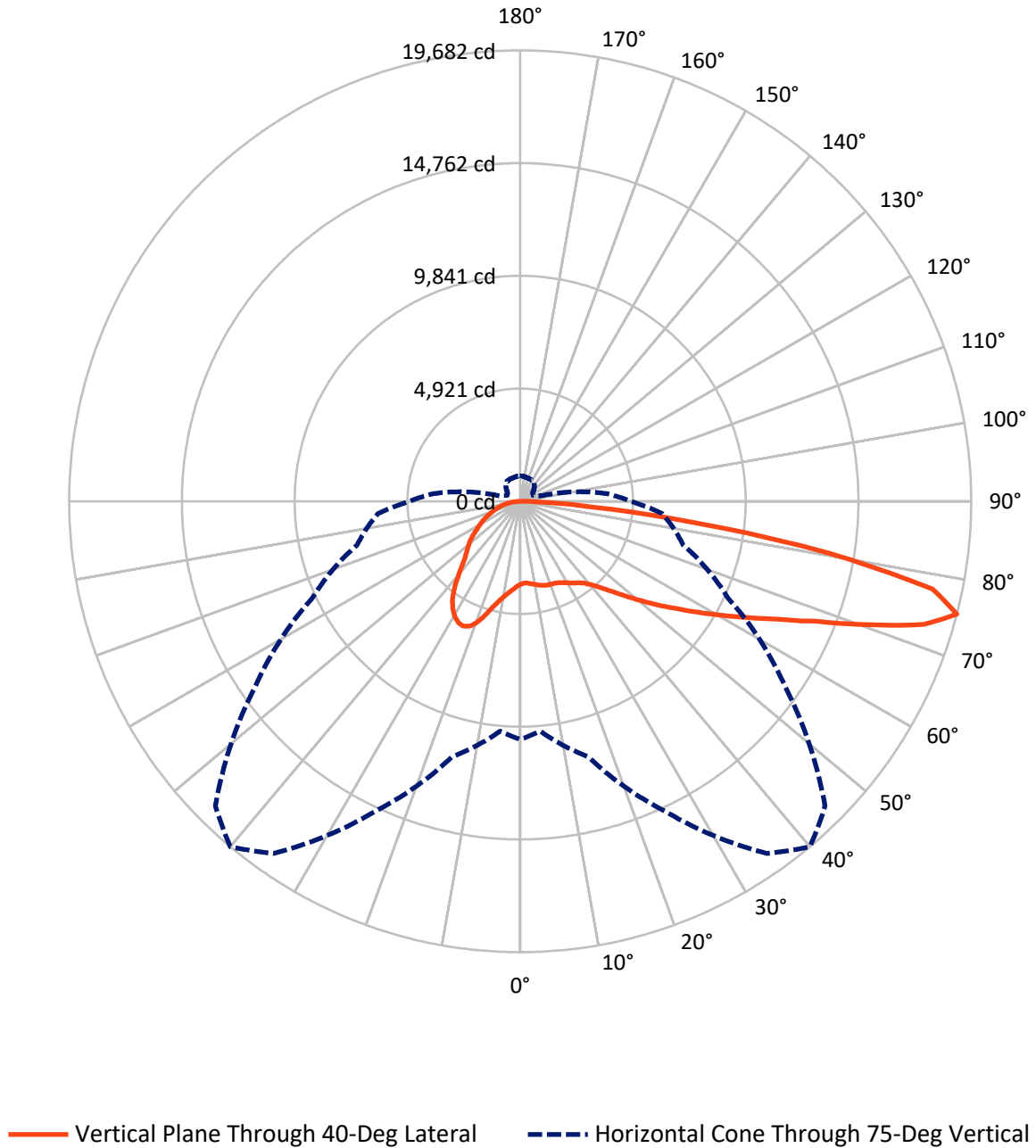
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P942822  
CATALOG NUMBER: GALN-SB7A-735-U-SL4

### Luminous Intensity Polar Plot



REPORT NUMBER: P942822

CATALOG NUMBER: GALN-SB7A-735-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9797.9	0.0	9797.9
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	21825.1	0.0	21825.1
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	31623.0	0.0	31623.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.0	1.1
10°-20°	1211.9	3.8
20°-30°	2212.8	7.0
30°-40°	3138.4	9.9
40°-50°	4237.8	13.4
50°-60°	5701.0	18.0
60°-70°	7235.9	22.9
70°-80°	6567.0	20.8
80°-90°	957.3	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°	31623.0	100.0
0°-180°	31623.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P942822

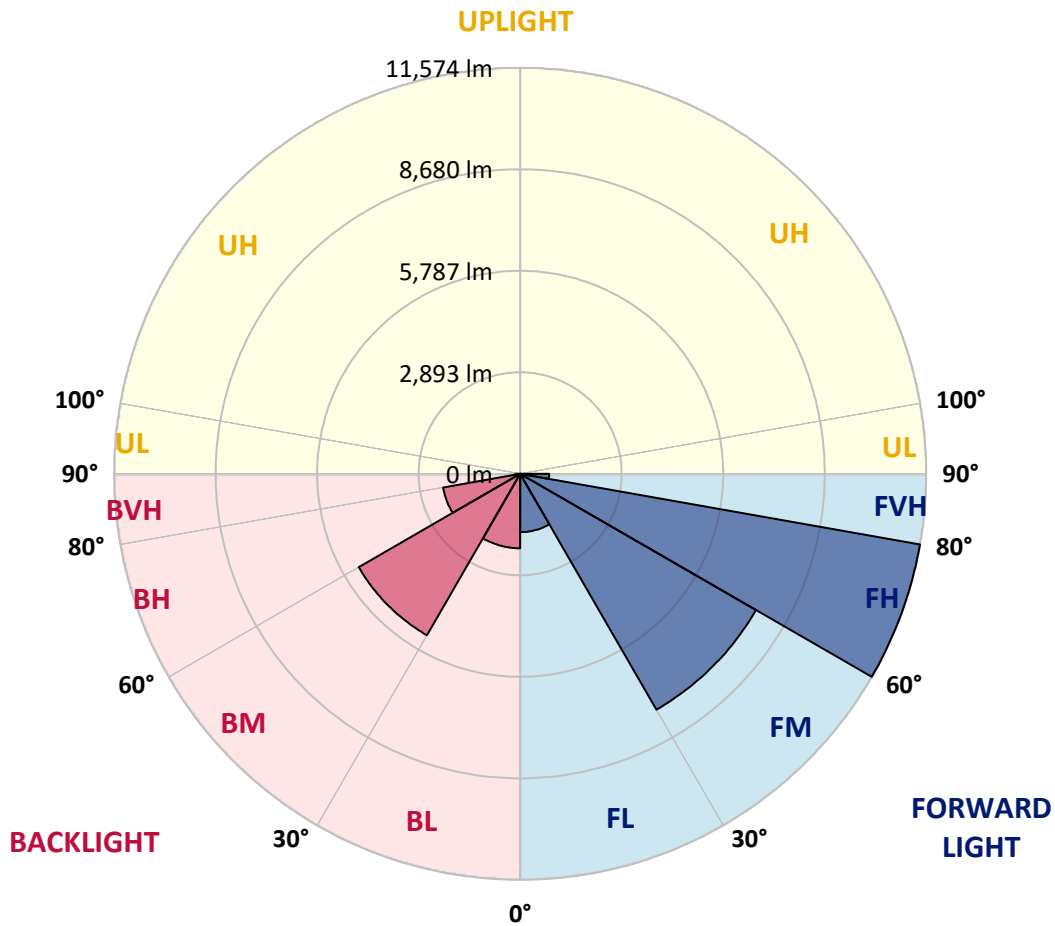
CATALOG NUMBER: GALN-SB7A-735-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.4	5.3			
FM (30°-60°)	7762.7	24.5			
FH (60°-80°)	11573.5	36.6			G4/12000
FVH (80°-90°)	825.5	2.6			G5
BL (0°-30°)	2122.3	6.7	B3/2500		
BM (30°-60°)	5314.5	16.8	B4/8500		
BH (60°-80°)	2229.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	131.8	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: P942822

CATALOG NUMBER: GALN-SB7A-735-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3616.1	3616.1	3616.1	3616.1	3616.1	3616.1	3616.1	3616.1	3616.1	3616.1
2.5°	3560.8	3580.9	3575.9	3569.2	3569.2	3570.8	3569.2	3580.9	3592.7	3604.4
5°	3597.7	3617.8	3607.7	3599.4	3592.7	3591.0	3585.9	3584.3	3591.0	3606.1
7.5°	3669.8	3689.9	3674.8	3659.7	3646.3	3639.6	3632.9	3622.8	3617.8	3626.2
10°	3750.3	3770.4	3752.0	3725.2	3703.3	3695.0	3688.3	3678.2	3671.5	3676.5
12.5°	3830.8	3850.9	3825.8	3788.9	3760.4	3755.3	3747.0	3743.6	3741.9	3740.2
15°	3906.3	3923.1	3891.2	3847.6	3817.4	3809.0	3800.6	3805.7	3814.0	3824.1
17.5°	3965.0	3981.8	3934.8	3877.8	3849.3	3845.9	3840.9	3857.7	3881.1	3906.3
20°	4018.7	4035.4	3975.1	3897.9	3864.4	3864.4	3866.0	3901.3	3934.8	3971.7
22.5°	4094.1	4107.6	4033.8	3928.1	3879.5	3882.8	3896.2	3931.5	3973.4	4023.7
25°	4206.5	4216.6	4126.0	3985.1	3929.8	3939.8	3951.6	3968.4	4008.6	4067.3
27.5°	4387.7	4396.0	4277.0	4085.8	4001.9	4018.7	4035.4	4023.7	4042.2	4092.5
30°	4642.6	4647.6	4496.7	4243.4	4124.3	4132.7	4136.1	4087.4	4052.2	4092.5
32.5°	4944.5	4942.8	4763.4	4434.6	4263.5	4255.2	4226.6	4131.0	4048.9	4084.1
35°	5412.5	5394.0	5162.5	4703.0	4421.2	4369.2	4302.1	4179.7	4065.6	4075.7
37.5°	6187.3	6130.3	5810.0	5142.4	4656.0	4523.5	4424.6	4258.5	4102.5	4072.3
40°	7061.2	6989.1	6636.8	5744.6	5008.2	4795.2	4635.9	4370.9	4162.9	4087.4
42.5°	8097.7	7995.4	7616.4	6454.0	5454.4	5145.8	4905.9	4513.5	4251.8	4136.1
45°	9370.7	9234.9	8698.2	7254.1	6016.3	5605.3	5285.0	4729.8	4387.7	4230.0
47.5°	10657.2	10690.7	9927.6	8169.8	6690.5	6172.2	5759.6	5055.2	4585.6	4381.0
50°	12024.1	12047.6	11150.3	9184.6	7455.3	6813.0	6293.0	5419.2	4860.6	4595.6
52.5°	13090.9	13094.2	12260.6	10246.3	8252.0	7517.4	6868.3	5835.1	5179.3	4880.8
55°	13758.4	13750.0	13038.9	11250.9	9167.8	8257.1	7505.7	6308.1	5568.4	5216.2
57.5°	14243.1	14218.0	13575.6	12114.7	10144.0	9130.9	8226.9	6844.8	6028.0	5615.4
60°	14427.6	14412.5	13939.6	12861.1	11170.4	10097.0	9058.8	7445.3	6549.6	6086.7
62.5°	14498.1	14526.6	14296.8	13584.0	12269.0	11167.1	9972.9	8163.1	7136.7	6620.1
65°	14746.3	14798.3	14751.3	14529.9	13510.2	12420.0	11185.5	9016.8	7777.4	7192.0
67.5°	15237.7	15289.7	15309.9	15662.1	15026.4	13981.5	12698.4	10080.2	8527.1	7785.8
70°	15226.0	15210.9	15566.5	16562.8	16925.0	16143.4	14737.9	11388.5	9421.1	8278.9
72.5°	13859.0	13738.3	14578.6	16552.7	18505.0	18401.0	17228.6	13075.8	10192.6	8339.2
75°	10397.2	10075.2	11559.5	14917.4	18768.3	19682.4	18811.9	14122.4	10009.8	7368.1
77.5°	4446.4	4122.7	5872.0	11043.0	16797.6	18399.3	17359.4	12321.0	7990.4	4872.4
80°	1164.0	1162.3	1774.5	5006.6	11423.7	13587.3	11920.2	7956.8	4565.5	1741.0
82.5°	481.4	469.6	652.4	1947.3	5581.9	7624.7	6222.6	3549.0	1648.7	471.3
85°	179.5	177.8	317.0	672.6	1969.1	3144.8	2276.0	907.4	410.9	229.8
87.5°	50.3	48.6	68.8	233.1	479.7	727.9	389.1	149.3	115.7	90.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942822  
 CATALOG NUMBER: GALN-SB7A-735-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3616.1	0°	3616.1	3616.1	3616.1	3616.1	3616.1	3616.1	3616.1	3616.1	3616.1	3616.1
3622.8	2.5°	3627.9	3636.3	3651.4	3663.1	3678.2	3695.0	3718.4	3733.5	3748.6	3758.7
3631.2	5°	3643.0	3661.4	3700.0	3738.6	3783.9	3825.8	3874.4	3909.6	3938.2	3946.5
3661.4	7.5°	3676.5	3706.7	3772.1	3837.5	3909.6	3978.4	4048.9	4109.2	4157.9	4176.3
3715.1	10°	3735.2	3775.5	3867.7	3960.0	4055.6	4161.2	4251.8	4339.0	4407.8	4436.3
3778.8	12.5°	3809.0	3859.3	3980.1	4107.6	4240.1	4386.0	4503.4	4610.7	4696.3	4734.9
3867.7	15°	3904.6	3970.0	4124.3	4295.4	4490.0	4692.9	4842.2	4961.3	5056.9	5103.8
3960.0	17.5°	4008.6	4095.8	4290.4	4548.7	4827.1	5093.8	5268.2	5355.4	5454.4	5499.7
4045.5	20°	4109.2	4216.6	4495.0	4870.7	5241.4	5524.8	5665.7	5689.2	5695.9	5700.9
4126.0	22.5°	4213.2	4357.5	4751.6	5276.6	5674.1	5870.3	5890.5	5789.8	5648.9	5583.5
4204.8	25°	4327.3	4518.5	5087.1	5724.4	6046.5	6069.9	5915.6	5670.8	5404.1	5281.6
4268.6	27.5°	4438.0	4704.7	5489.6	6152.1	6314.8	6108.5	5776.4	5429.2	5107.2	4978.1
4313.9	30°	4548.7	4917.7	5934.1	6526.1	6437.3	6012.9	5556.7	5169.3	4845.6	4709.7
4354.1	32.5°	4661.1	5165.9	6445.6	6796.2	6415.4	5810.0	5283.3	4877.4	4592.3	4449.7
4389.3	35°	4788.5	5471.2	6930.4	6943.8	6269.5	5511.4	4922.7	4528.6	4280.3	4166.3
4431.3	37.5°	4954.6	5858.6	7358.1	6980.7	6014.6	5073.7	4474.9	4116.0	3911.3	3859.3
4493.3	40°	5160.9	6324.9	7685.1	6922.0	5637.2	4542.0	3985.1	3698.3	3582.6	3594.3
4577.2	42.5°	5429.2	6846.5	7914.9	6771.0	5112.2	3993.5	3555.8	3428.3	3483.6	3530.6
4703.0	45°	5778.1	7388.2	8057.5	6514.4	4518.5	3528.9	3302.5	3332.7	3374.6	3379.6
4905.9	47.5°	6224.2	7936.7	8151.4	6127.0	3913.0	3201.9	3141.5	3148.2	3139.8	3104.6
5209.5	50°	6781.1	8470.1	8235.3	5613.7	3398.1	2997.2	2916.7	2893.2	2777.5	2663.5
5613.7	52.5°	7415.1	8959.8	8270.5	4976.4	2997.2	2826.2	2695.3	2547.7	2331.4	2296.1
6121.9	55°	8119.5	9412.7	8179.9	4193.1	2660.1	2606.4	2408.5	2230.7	2207.2	2177.1
6791.1	57.5°	8961.5	9900.8	7995.4	3319.3	2314.6	2349.8	2156.9	2177.1	2135.1	2088.2
7651.6	60°	9882.3	10405.6	7671.7	2522.6	1957.3	2029.5	2091.5	2089.8	2078.1	2039.5
8559.0	62.5°	10710.9	10737.7	7034.3	1932.2	1643.7	1781.2	1950.6	1949.0	1938.9	1917.1
9506.6	65°	11204.0	10687.4	5971.0	1521.3	1385.4	1576.6	1759.4	1772.8	1774.5	1772.8
10219.4	67.5°	11116.8	10098.7	4511.8	1211.0	1172.4	1368.6	1569.9	1588.3	1601.8	1605.1
10310.0	70°	10130.5	8805.5	2941.9	966.1	982.9	1185.8	1390.4	1408.9	1420.6	1434.0
8946.4	72.5°	7896.5	6474.2	1684.0	781.6	816.8	1028.1	1212.6	1234.4	1241.2	1266.3
6225.9	75°	4812.0	3807.3	909.1	615.5	670.9	878.9	1036.5	1061.7	1073.4	1103.6
3057.6	77.5°	2287.8	1648.7	518.3	479.7	540.1	717.9	875.5	904.0	872.2	888.9
843.7	80°	773.2	612.2	327.1	365.6	412.6	560.2	701.1	729.6	662.5	659.2
280.1	82.5°	270.0	248.2	208.0	243.2	266.7	400.9	530.0	566.9	493.1	491.4
125.8	85°	105.7	100.6	115.7	132.5	159.3	246.6	348.9	367.3	303.6	244.9
36.9	87.5°	21.8	23.5	28.5	30.2	48.6	85.5	125.8	154.3	122.4	104.0
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>
3616.1
3752.0
3949.9
4178.0
4438.0
4734.9
5100.5
5498.0
5714.4
5602.0
5300.1
4993.1
4724.8
4468.2
4191.4
3896.2
3634.6
3574.2
3413.2
3131.4
2678.6
2307.9
2182.1
2079.8
2026.1
1908.7
1772.8
1608.5
1440.8
1276.4
<i>1107.0</i>
875.5
652.4
468.0
241.5
95.6
0.0

F REPORT)