

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: 769006\_400MP

Luminaire Tested: **GSM-XX-400-MP-XX-1F-FG-XX-X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 769006\_400MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GSM-XX-400-MP-XX-1F-FG-XX-X  
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-TYPE I DISTRIBUTION  
Light Source: 400 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 40000 (1 lamp)  
Luminaire Lumens: 24840.3 lumens  
Efficiency: 62.1%  
Efficacy: 55.0 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G4

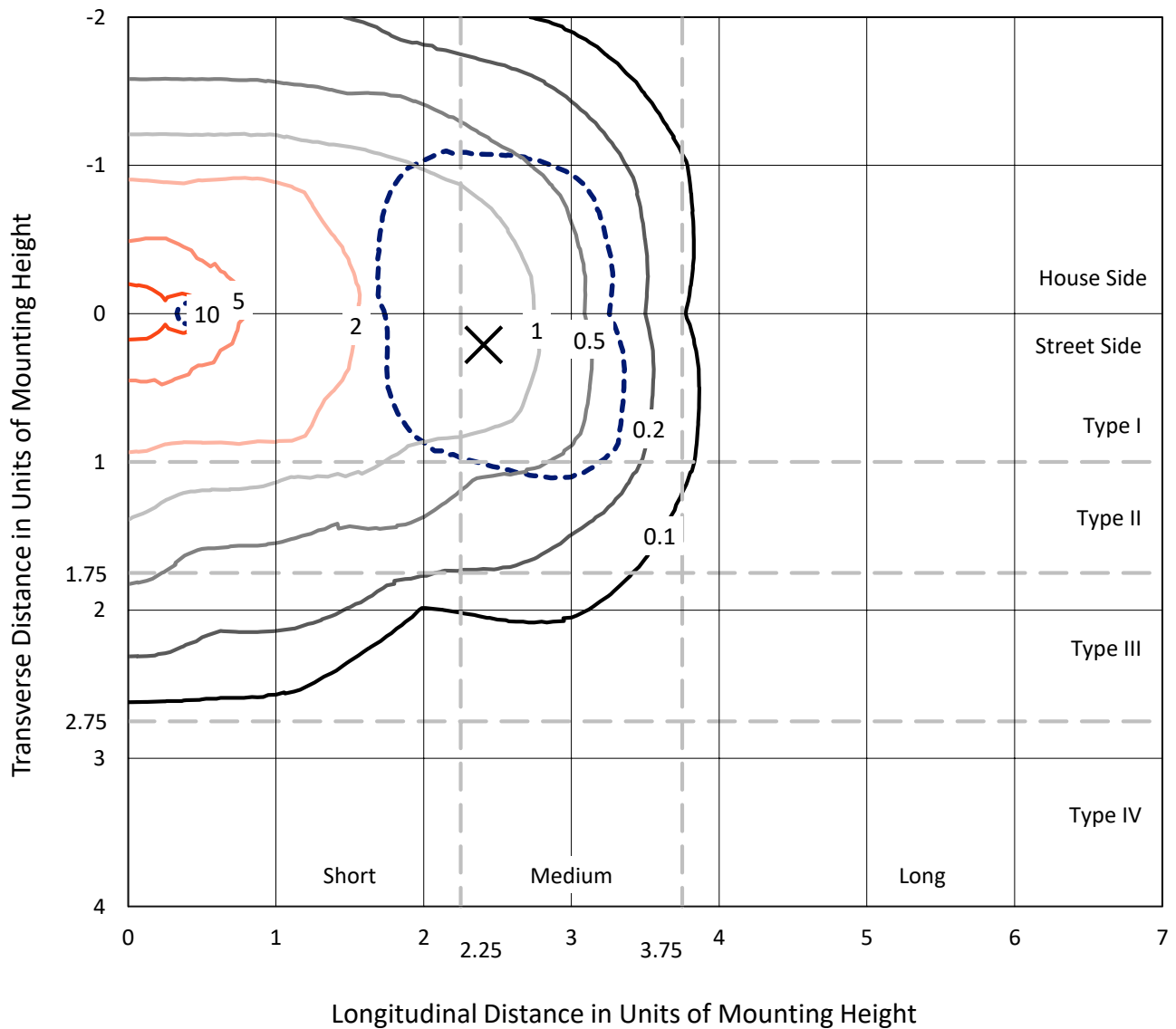
Input Watts (W): 452  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

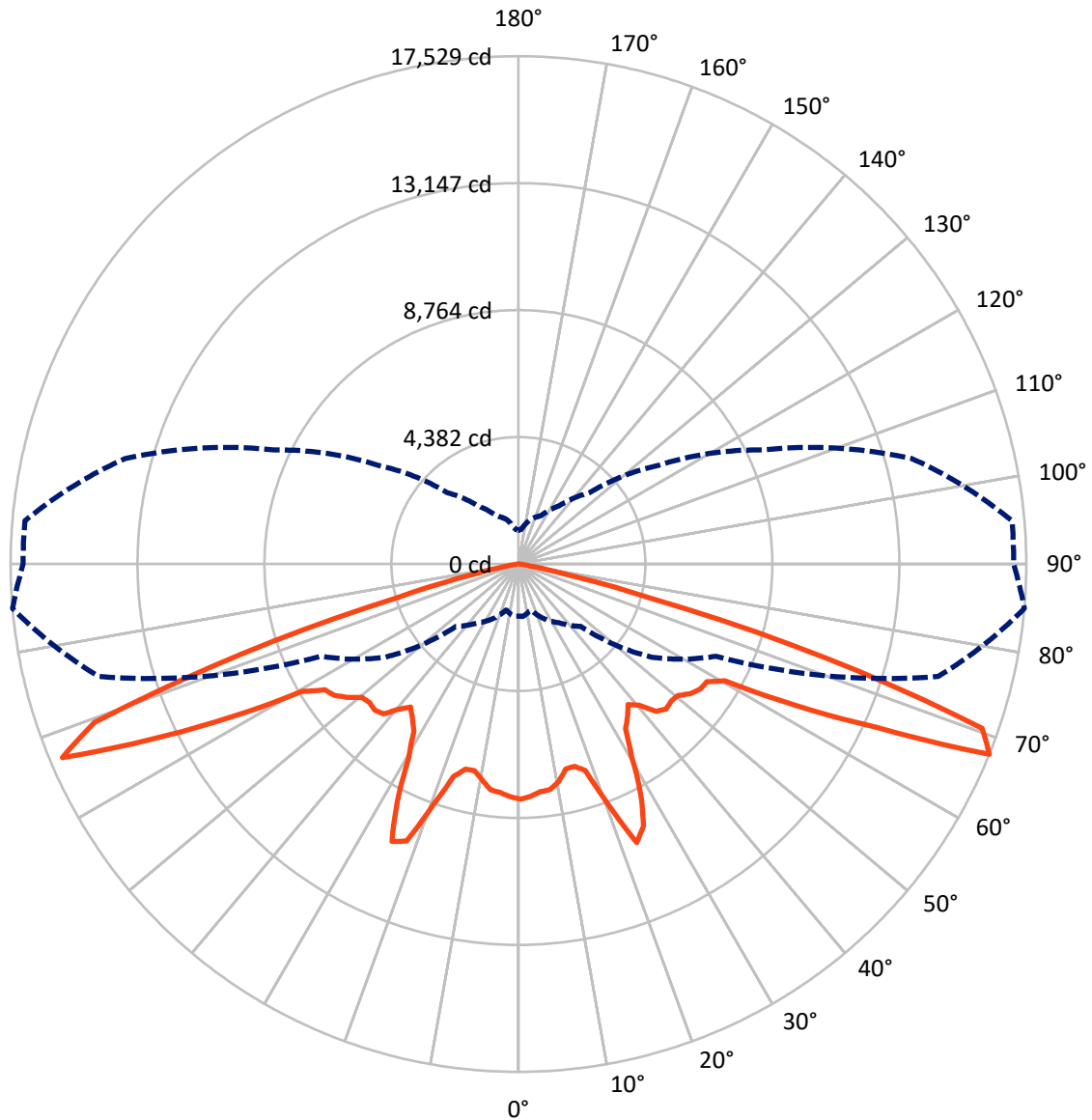
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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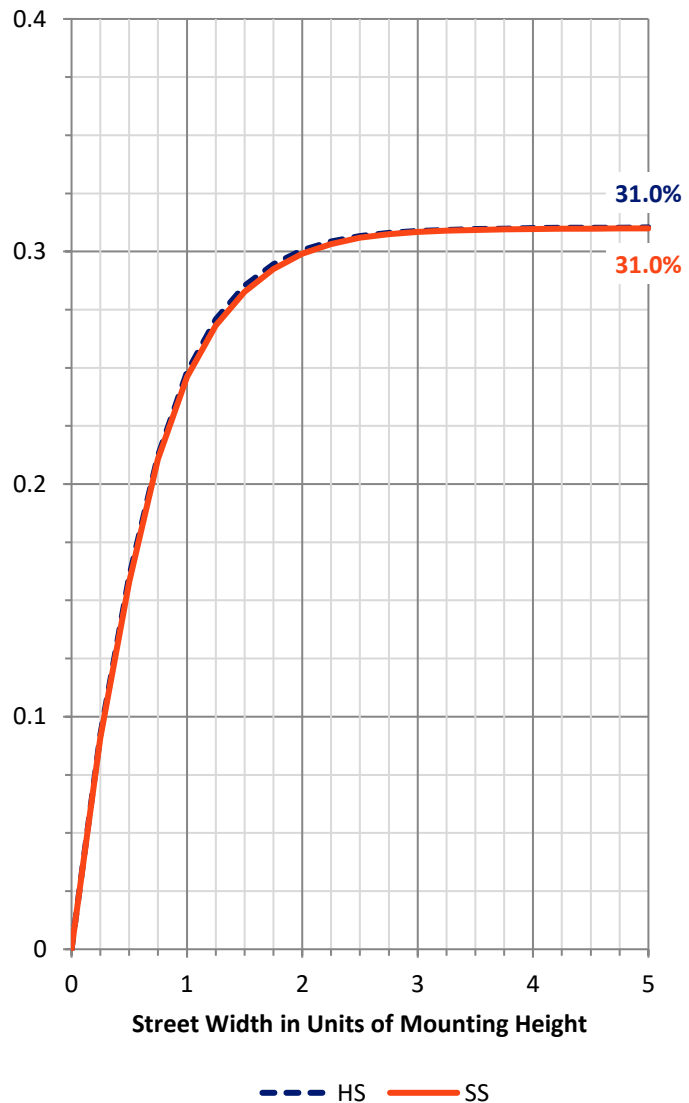
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12465.0	0.0	12465.0
	% Lamp	31.2	0.0	31.2
<b>Street Side</b>	Lumens	12375.3	0.0	12375.3
	% Lamp	30.9	0.0	30.9
<b>Total</b>	Lumens	24840.3	0.0	24840.3
	% Lamp	62.1	0.0	62.1

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	722.5	2.9	1.8
10°-20°	1832.7	7.4	4.6
20°-30°	2748.8	11.1	6.9
30°-40°	3076.2	12.4	7.7
40°-50°	3876.6	15.6	9.7
50°-60°	4413.9	17.8	11.0
60°-70°	5654.3	22.8	14.1
70°-80°	2469.8	9.9	6.2
80°-90°	45.5	0.2	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	24840.3	100.0	62.1
0°-180°	24840.3	100.0	62.1

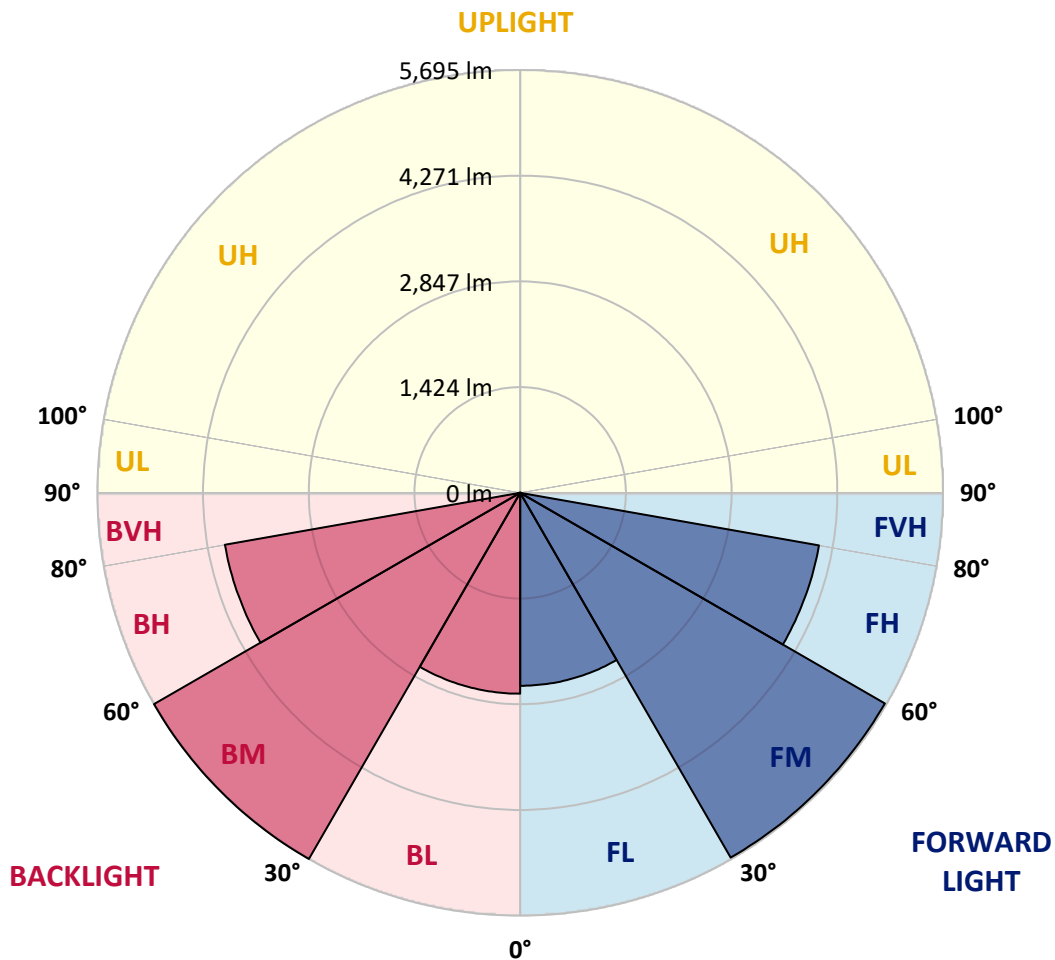


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2599.0	6.5			
FM (30°-60°)	5672.1	14.2			
FH (60°-80°)	4086.2	10.2			G2/5000
FVH (80°-90°)	18.1	0.0			G1/100
BL (0°-30°)	2705.0	6.8	B4/5000		
BM (30°-60°)	5694.6	14.2	B4/8500		
BH (60°-80°)	4037.9	10.1	B4/5000		G4/5000
BVH (80°-90°)	27.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	15159.7	37.9			

**BUG Rating: B4-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8116.7	8116.7	8116.7	8116.7	8116.7	8116.7	8116.7	8116.7	8116.7	8116.7	8116.7
2.5°	7994.4	8000.0	8000.0	8000.0	8006.7	8006.7	8043.3	8043.3	8036.7	8024.4	8055.6
5°	7554.4	7554.4	7578.9	7603.3	7670.0	7713.3	7811.1	7877.8	7902.2	7896.7	7921.1
7.5°	6955.6	6948.9	7010.0	7114.4	7248.9	7364.4	7523.3	7664.4	7792.2	7860.0	7877.8
10°	6454.4	6466.7	6533.3	6680.0	6906.7	7126.7	7376.7	7505.6	7603.3	7627.8	7621.1
12.5°	6051.1	6075.6	6136.7	6271.1	6503.3	6747.8	7022.2	7090.0	7144.4	7261.1	7315.6
15°	5684.4	5677.8	5770.0	5910.0	6105.6	6258.9	6515.6	6728.9	6943.3	7242.2	7346.7
17.5°	5195.6	5207.8	5360.0	5525.6	5690.0	5770.0	6087.8	6540.0	7065.6	7498.9	7688.9
20°	4681.1	4706.7	4853.3	5042.2	5183.3	5298.9	5696.7	6576.7	8048.9	8862.2	8953.3
22.5°	4290.0	4296.7	4443.3	4668.9	4828.9	5024.4	5421.1	6601.1	8862.2	10445.6	10653.3
25°	3960.0	3978.9	4137.8	4424.4	4656.7	4877.8	5354.4	6527.8	8471.1	10017.8	10512.2
27.5°	3678.9	3715.6	4021.1	4424.4	4668.9	4883.3	5501.1	6601.1	7914.4	9002.2	9290.0
30°	3422.2	3502.2	4137.8	4492.2	4651.1	4718.9	5220.0	6240.0	6912.2	7694.4	7884.4
32.5°	3287.8	3367.8	4370.0	4192.2	4480.0	4418.9	4626.7	5403.3	6191.1	6784.4	6924.4
35°	3202.2	3263.3	4241.1	4064.4	4712.2	4675.6	4565.6	5036.7	5836.7	6484.4	6545.6
37.5°	3214.4	3251.1	3898.9	3893.3	4853.3	5140.0	4822.2	5085.6	5708.9	6154.4	6246.7
40°	3275.6	3300.0	3404.4	3593.3	4663.3	5757.8	5286.7	5391.1	5995.6	6405.6	6503.3
42.5°	3214.4	3245.6	3080.0	3348.9	4351.1	6166.7	5873.3	5941.1	6692.2	6948.9	6948.9
45°	3141.1	3153.3	2908.9	3147.8	3984.4	5873.3	6460.0	6423.3	7083.3	7144.4	7041.1
47.5°	3128.9	3067.8	2774.4	2988.9	3752.2	5396.7	6723.3	6503.3	6851.1	7083.3	7046.7
50°	3165.6	3013.3	2622.2	2866.7	3568.9	4993.3	7016.7	6478.9	6796.7	7132.2	7120.0
52.5°	3190.0	2964.4	2517.8	2750.0	3434.4	4620.0	7352.2	6618.9	6918.9	7432.2	7505.6
55°	3092.2	2878.9	2383.3	2652.2	3312.2	4198.9	7114.4	6741.1	7547.8	7615.6	7743.3
57.5°	3067.8	2940.0	2267.8	2561.1	3233.3	3898.9	6271.1	6735.6	7774.4	7670.0	7841.1
60°	2945.6	2811.1	2163.3	2456.7	3116.7	3722.2	5806.7	6711.1	7921.1	8177.8	8410.0
62.5°	2652.2	2573.3	2016.7	2353.3	2903.3	3551.1	6276.7	7364.4	9480.0	10751.1	10995.6
65°	2334.4	2322.2	1833.3	2236.7	2750.0	3355.6	6460.0	8018.9	11783.3	13586.7	13653.3
67.5°	1796.7	1815.6	1637.8	2084.4	2481.1	3043.3	5604.4	7530.0	14998.9	17528.9	17094.4
70°	1148.9	1161.1	1412.2	1747.8	1711.1	1803.3	4057.8	6227.8	15512.2	16984.4	15640.0
72.5°	550.0	568.9	886.7	764.4	630.0	801.1	3942.2	6136.7	11612.2	11142.2	9571.1
75°	146.7	158.9	385.6	263.3	287.8	471.1	3116.7	4644.4	5586.7	4681.1	3862.2
77.5°	48.9	61.1	134.4	110.0	171.1	268.9	1302.2	1601.1	1607.8	1436.7	1363.3
80°	12.2	12.2	24.4	24.4	73.3	104.4	336.7	373.3	385.6	410.0	446.7
82.5°	0.0	0.0	0.0	0.0	12.2	12.2	43.3	67.8	85.6	97.8	110.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8116.7	8116.7	8116.7	8116.7	8116.7	8116.7	8116.7	8116.7	8116.7	8116.7
2.5°	8036.7	8036.7	8061.1	8031.1	8024.4	8018.9	8036.7	8043.3	8018.9	8055.6
5°	7914.4	7877.8	7884.4	7828.9	7816.7	7804.4	7804.4	7774.4	7762.2	7762.2
7.5°	7853.3	7767.8	7731.1	7621.1	7542.2	7462.2	7395.6	7346.7	7297.8	7297.8
10°	7560.0	7474.4	7401.1	7297.8	7212.2	7065.6	6961.1	6894.4	6875.6	6870.0
12.5°	7291.1	7187.8	7102.2	6936.7	6784.4	6674.4	6545.6	6454.4	6423.3	6417.8
15°	7310.0	7090.0	6870.0	6643.3	6454.4	6307.8	6161.1	6051.1	5995.6	6026.7
17.5°	7670.0	7224.4	6735.6	6271.1	6032.2	5941.1	5782.2	5653.3	5598.9	5611.1
20°	8818.9	7975.6	6838.9	6068.9	5690.0	5543.3	5378.9	5256.7	5183.3	5183.3
22.5°	10311.1	8703.3	7016.7	5867.8	5403.3	5232.2	5066.7	4907.8	4797.8	4780.0
25°	10524.4	8862.2	7016.7	5751.1	5237.8	5054.4	4877.8	4651.1	4448.9	4436.7
27.5°	9216.7	8232.2	6821.1	5623.3	5134.4	5005.6	4834.4	4541.1	4180.0	4131.1
30°	7694.4	7144.4	6197.8	5188.9	4877.8	4890.0	4700.0	4418.9	3978.9	3923.3
32.5°	6808.9	6466.7	5714.4	4865.6	4595.6	4668.9	4308.9	4118.9	3801.1	3740.0
35°	6460.0	6142.2	5452.2	4792.2	4724.4	4626.7	4040.0	3734.4	3556.7	3532.2
37.5°	6178.9	5965.6	5360.0	4871.1	4987.8	4681.1	3832.2	3483.3	3373.3	3373.3
40°	6491.1	6173.3	5518.9	5176.7	5347.8	4700.0	3636.7	3282.2	3196.7	3214.4
42.5°	6961.1	6698.9	5873.3	5604.4	5628.9	4607.8	3446.7	3111.1	3001.1	3006.7
45°	7071.1	6906.7	6197.8	6026.7	5708.9	4370.0	3275.6	2940.0	2798.9	2798.9
47.5°	7016.7	6845.6	6423.3	6374.4	5653.3	4118.9	3123.3	2774.4	2615.6	2591.1
50°	7090.0	6900.0	6582.2	6680.0	5513.3	3874.4	2976.7	2603.3	2432.2	2407.8
52.5°	7474.4	6992.2	6686.7	6882.2	5335.6	3673.3	2854.4	2468.9	2292.2	2273.3
55°	7798.9	7420.0	6784.4	6802.2	5030.0	3507.8	2732.2	2341.1	2163.3	2151.1
57.5°	7970.0	7713.3	7004.4	6540.0	4651.1	3361.1	2622.2	2224.4	2060.0	2041.1
60°	8654.4	8238.9	7334.4	6313.3	4290.0	3202.2	2500.0	2108.9	1950.0	1955.6
62.5°	11264.4	10170.0	8410.0	6460.0	4076.7	2994.4	2358.9	2011.1	1766.7	1772.2
65°	14063.3	12406.7	9314.4	6496.7	3868.9	2774.4	2145.6	1870.0	1491.1	1478.9
67.5°	17101.1	14056.7	9314.4	5953.3	3483.3	2451.1	1840.0	1595.6	1210.0	1161.1
70°	15622.2	12614.4	7566.7	4277.8	2200.0	1613.3	1405.6	1112.2	874.4	867.8
72.5°	9998.9	9155.6	5990.0	3385.6	1241.1	630.0	556.7	562.2	520.0	537.8
75°	4333.3	4895.6	3746.7	2390.0	825.6	317.8	177.8	190.0	207.8	220.0
77.5°	1613.3	2016.7	1760.0	1271.1	483.3	183.3	85.6	85.6	110.0	110.0
80°	525.6	635.6	598.9	464.4	207.8	80.0	31.1	24.4	36.7	36.7
82.5°	128.9	146.7	122.2	92.2	36.7	6.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)