

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: LUMARK

Report Number: P285751

Luminaire Tested: **PRV-XL-C100-D-UNV-T2-BZ**

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285751  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 2/13/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-C100-D-UNV-T2-BZ  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31231 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

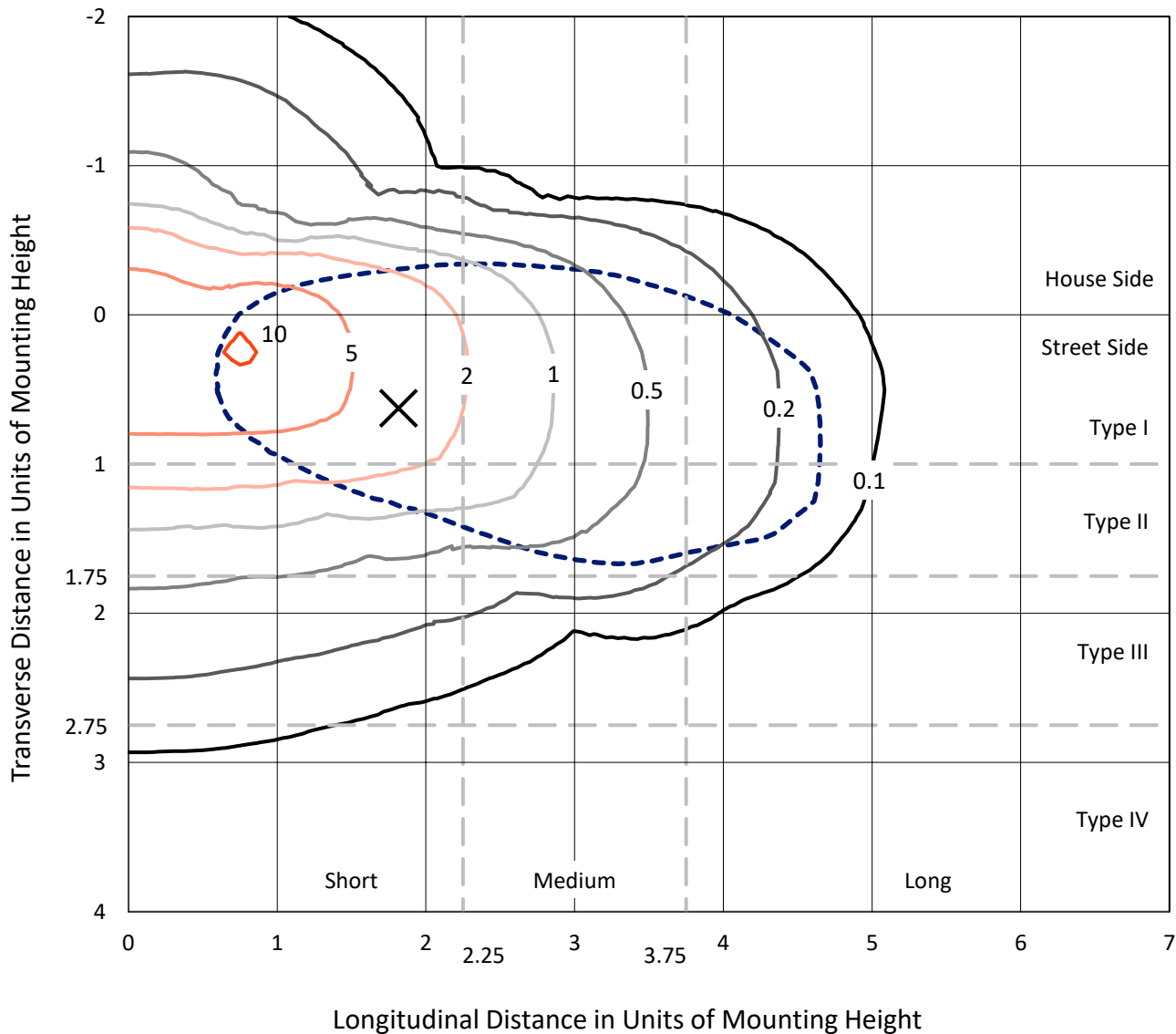
Input Watts (W): 217  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

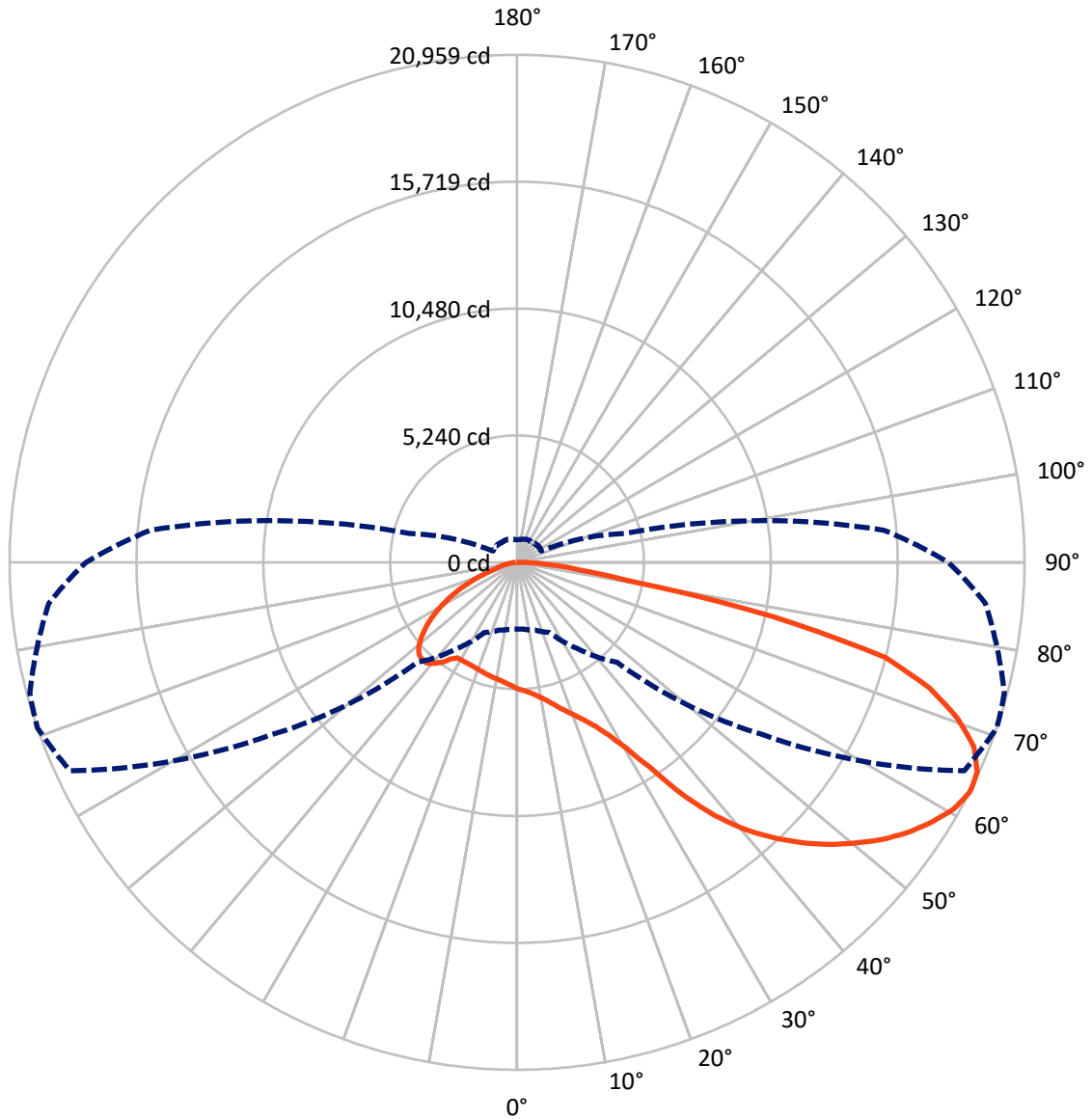
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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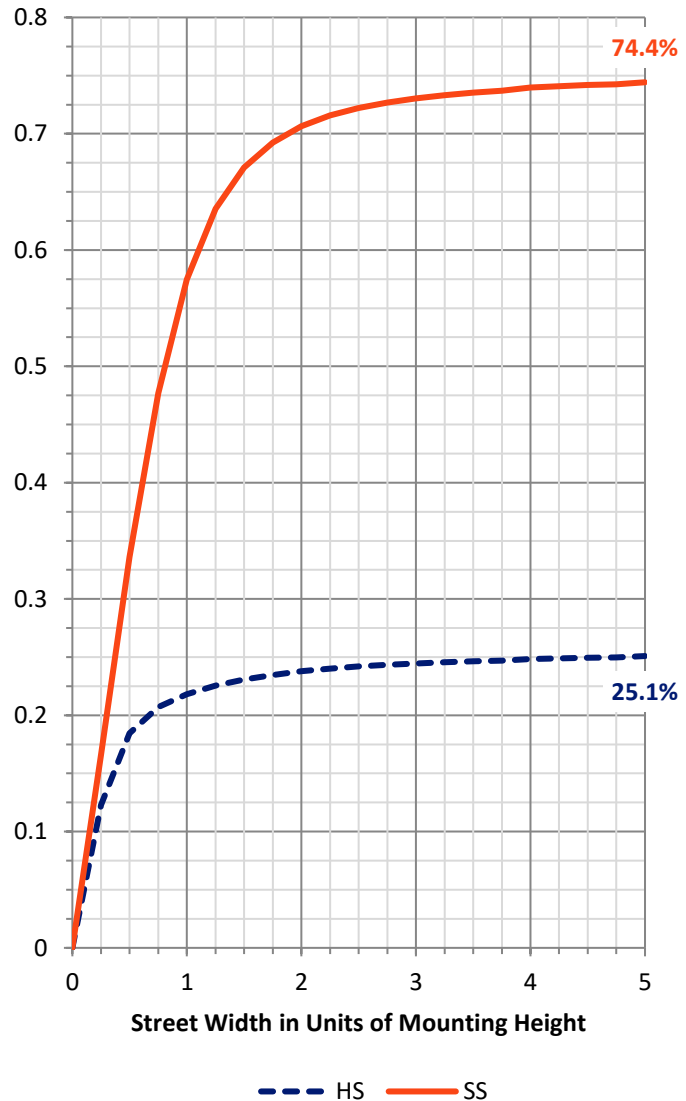
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7975.5	0.0	7975.5
	% Fixture	25.5	0.0	25.5
<b>Street Side</b>	Lumens	23255.5	0.0	23255.5
	% Fixture	74.5	0.0	74.5
<b>Total</b>	Lumens	31231.0	0.0	31231.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.5	1.6
10°-20°	1543.9	4.9
20°-30°	2617.2	8.4
30°-40°	3944.7	12.6
40°-50°	5419.1	17.4
50°-60°	6300.3	20.2
60°-70°	6216.7	19.9
70°-80°	3975.0	12.7
80°-90°	709.6	2.3
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°	31231.0	100.0
0°-180°	31231.0	100.0

**Coefficient of Utilization**

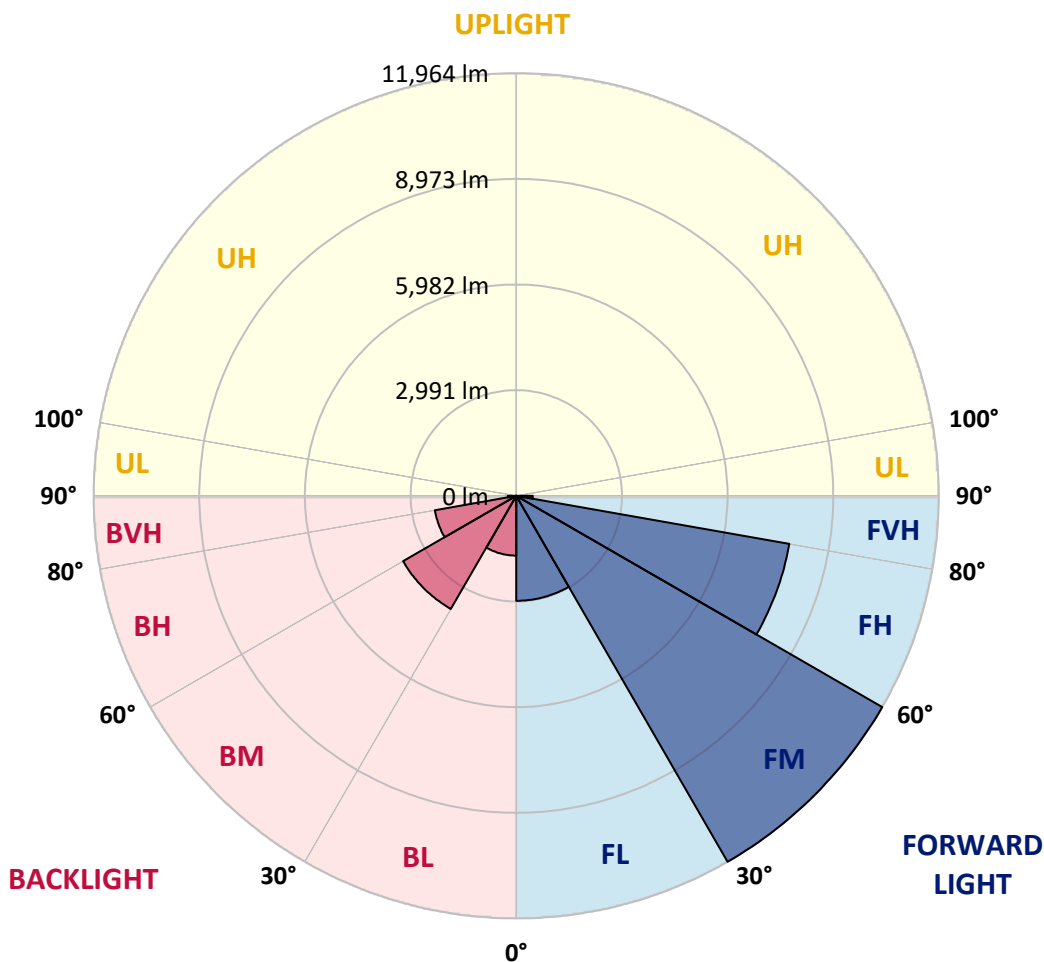


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2972.5	9.5			
FM (30°-60°)	11964.0	38.3			
FH (60°-80°)	7850.1	25.1			G4/12000
FVH (80°-90°)	468.9	1.5			G3/500
BL (0°-30°)	1693.1	5.4	B3/2500		
BM (30°-60°)	3700.1	11.8	B3/5000		
BH (60°-80°)	2341.6	7.5	B3/2500		G3/2500
BVH (80°-90°)	240.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5235.9	5235.9	5235.9	5235.9	5235.9	5235.9	5235.9	5235.9	5235.9	5235.9	5235.9
2.5°	5581.9	5571.2	5558.2	5535.6	5509.4	5478.5	5446.4	5373.8	5298.9	5275.1	5224.0
5°	5888.8	5868.5	5851.9	5830.5	5780.5	5717.5	5633.1	5514.2	5397.6	5360.8	5254.9
7.5°	6159.9	6137.3	6107.6	6079.0	6024.3	5943.5	5829.3	5678.3	5537.9	5473.7	5301.3
10°	6401.3	6379.9	6364.4	6332.3	6288.3	6190.8	6055.2	5866.2	5703.2	5614.1	5375.0
12.5°	6668.8	6651.0	6618.9	6582.0	6523.8	6429.8	6294.3	6088.5	5914.9	5806.7	5488.0
15°	6941.2	6929.3	6872.2	6850.8	6785.4	6677.2	6557.1	6345.4	6168.2	6033.8	5649.7
17.5°	7182.6	7174.2	7138.6	7113.6	7060.1	6938.8	6815.1	6621.3	6440.5	6269.3	5829.3
20°	7337.2	7349.0	7341.9	7337.2	7333.6	7233.7	7111.2	6911.4	6729.5	6559.4	6021.9
22.5°	7481.0	7485.8	7504.8	7548.8	7611.9	7567.9	7435.9	7251.5	7066.0	6862.7	6271.7
25°	7526.2	7529.8	7603.5	7736.7	7913.9	7932.9	7824.7	7701.0	7498.9	7299.1	6614.1
27.5°	7563.1	7572.6	7665.4	7898.4	8210.0	8300.4	8261.1	8220.7	8078.0	7868.7	7074.4
30°	7552.4	7554.8	7708.2	8007.8	8445.5	8689.2	8748.7	8943.7	8908.0	8765.3	7844.9
32.5°	7356.2	7338.3	7560.7	8010.2	8629.8	9079.3	9354.0	9909.3	10119.8	10157.9	9386.1
35°	6956.6	6956.6	7289.6	7917.5	8763.0	9464.6	10043.7	11084.2	11794.2	11813.2	10851.1
37.5°	6623.7	6645.1	7018.5	7743.9	8824.8	9855.8	10834.5	12520.7	13269.9	13205.7	12074.8
40°	6291.9	6318.0	6701.0	7507.2	8787.9	10193.5	11601.5	13890.7	14513.8	14366.3	13117.7
42.5°	5924.4	5944.6	6303.8	7170.7	8660.7	10439.7	12425.6	15059.6	15555.5	15375.9	14069.0
45°	5557.0	5591.5	5914.9	6718.8	8412.2	10587.2	13132.0	16120.3	16522.3	16315.4	14934.7
47.5°	5015.9	5149.1	5526.1	6272.9	7961.5	10576.4	13758.7	17072.9	17414.2	17194.2	15714.8
50°	3915.9	3994.4	4825.6	5868.5	7366.9	10363.6	14253.4	17923.1	18215.7	18020.6	16503.3
52.5°	3556.8	3578.2	3847.0	5372.7	6708.1	9942.6	14619.6	18709.2	18994.6	18771.0	17216.8
55°	3372.5	3384.4	3516.4	4392.8	6149.2	9167.3	14786.1	19435.7	19651.0	19398.9	17820.9
57.5°	3121.6	3158.4	3342.7	3744.7	5577.2	8070.9	14570.9	20006.5	20221.8	19948.3	18398.8
60°	2936.1	2958.6	3116.8	3428.4	4914.8	6789.0	13826.4	20419.2	20709.3	20457.2	18935.1
62.5°	2752.9	2766.0	2899.2	3198.9	4345.2	5835.2	12436.3	20371.6	20959.1	20833.0	19410.8
63°	2714.9	2726.8	2859.9	3157.2	4260.8	5640.2	12143.8	20312.2	20959.1	20871.1	19470.2
65°	2546.0	2560.3	2692.3	2963.4	3907.6	5150.3	10838.1	19942.3	20884.1	20925.8	19554.7
67.5°	2295.1	2318.9	2428.3	2664.9	3377.2	4553.3	8900.9	19555.8	20346.6	20435.8	19087.3
70°	1999.0	2003.7	2135.7	2334.3	2846.9	3873.1	6861.5	18383.3	19296.6	19335.8	17994.5
72.5°	1683.9	1696.9	1815.9	1983.5	2361.7	3207.2	4905.3	16208.3	17829.2	18050.4	16164.3
75°	1469.8	1480.5	1580.4	1698.1	1960.9	2528.2	3280.9	11819.1	15718.4	15964.6	13982.2
77.5°	1230.8	1237.9	1342.6	1423.4	1593.5	1907.4	2265.4	6236.0	10826.2	12136.6	10923.7
80°	876.4	877.6	982.3	1045.3	1154.7	1172.5	1440.1	3319.0	4763.8	6156.3	7219.4
82.5°	190.3	273.5	411.5	517.3	579.1	487.6	708.7	1818.2	2631.6	3141.8	3913.5
85°	82.1	113.0	217.6	239.0	159.3	176.0	287.8	969.2	1504.3	1790.9	2014.4
87.5°	15.5	20.2	55.9	74.9	46.4	48.8	58.3	310.4	526.8	618.4	689.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5235.9	5235.9	5235.9	5235.9	5235.9	5235.9	5235.9	5235.9	5235.9	5235.9	5235.9
2.5°	5193.1	5178.8	5131.3	5099.1	5078.9	5052.8	5019.5	4975.5	4962.4	4931.5	4956.4
5°	5196.7	5158.6	5058.7	4986.2	4920.8	4863.7	4797.1	4734.1	4710.3	4668.7	4685.3
7.5°	5213.3	5149.1	4994.5	4883.9	4786.4	4709.1	4616.3	4539.0	4511.7	4464.1	4472.5
10°	5257.3	5157.4	4944.6	4810.2	4675.8	4562.8	4454.6	4348.8	4301.2	4259.6	4279.8
12.5°	5334.6	5188.3	4922.0	4749.5	4571.2	4433.2	4275.1	4139.5	4072.9	4019.4	4037.2
15°	5451.1	5247.8	4895.8	4662.7	4447.5	4267.9	4074.1	3902.8	3827.9	3786.3	3806.5
17.5°	5570.1	5334.6	4880.3	4556.9	4298.8	4065.8	3879.1	3717.3	3580.6	3549.7	3561.6
20°	5710.4	5423.8	4892.2	4445.1	4124.0	3848.1	3627.0	3518.7	3341.6	3279.7	3283.3
22.5°	5895.9	5562.9	4902.9	4335.7	3915.9	3607.9	3349.9	3242.9	3072.8	2963.4	2968.2
25°	6162.3	5735.4	4927.9	4234.6	3711.4	3343.9	3045.5	2867.1	2761.2	2622.1	2623.3
27.5°	6527.3	5972.0	4977.9	4139.5	3493.8	3040.7	2675.6	2475.8	2383.1	2291.5	2279.6
30°	7150.5	6363.2	5051.6	4034.8	3235.7	2674.4	2285.6	2110.8	2032.3	1957.4	1949.0
32.5°	8465.7	7313.4	5153.8	3902.8	2957.5	2258.2	1940.7	1802.8	1692.2	1618.5	1629.2
35°	9815.4	8503.7	5586.7	3745.9	2643.5	1894.3	1681.5	1510.2	1368.7	1311.7	1315.2
37.5°	10971.3	9582.3	6237.2	3575.8	2296.3	1660.1	1421.1	1255.8	1142.8	1114.2	1149.9
40°	11933.3	10468.2	6759.2	3396.3	1931.2	1462.7	1158.2	1067.9	995.3	987.0	1019.1
42.5°	12843.0	11268.5	7198.0	3189.3	1591.1	1208.2	962.0	983.4	972.7	971.5	976.3
45°	13669.5	12010.6	7443.0	2881.4	1350.9	989.4	908.5	989.4	1007.2	1004.8	991.8
47.5°	14422.2	12688.4	7609.5	2435.4	1144.0	927.5	938.3	993.0	1026.3	1032.2	1017.9
50°	15203.5	13350.8	7635.6	1895.5	1061.9	976.3	964.4	957.3	1017.9	1016.7	1017.9
52.5°	15901.5	13919.2	7350.2	1473.4	1104.7	1027.4	985.8	944.2	978.7	979.9	956.1
55°	16427.1	14385.3	6861.5	1291.4	1140.4	1070.2	1047.7	964.4	943.0	928.7	937.1
57.5°	16969.4	14801.6	6197.9	1209.4	1151.1	1079.8	1102.4	969.2	937.1	871.7	866.9
60°	17491.5	15138.1	5411.9	1154.7	1138.0	1075.0	1067.9	1006.0	944.2	846.7	813.4
62.5°	17809.0	15211.8	4608.0	1101.2	1113.1	1067.9	1029.8	1033.4	990.6	937.1	929.9
63°	17845.8	15186.8	4454.6	1088.1	1107.1	1066.7	1029.8	1035.8	990.6	958.5	959.7
65°	17799.4	14896.7	3852.9	1032.2	1085.7	1047.7	1014.4	984.6	910.9	931.1	954.9
67.5°	17278.6	13947.7	2962.2	941.8	1038.1	1016.7	968.0	894.3	827.7	814.6	828.8
70°	15871.8	12393.5	2098.9	802.7	952.5	977.5	956.1	845.5	778.9	767.0	795.6
72.5°	13919.2	10760.8	1441.3	642.1	797.9	909.7	903.8	814.6	755.1	720.6	734.9
75°	11716.9	8679.7	1007.2	541.1	614.8	819.3	857.4	788.4	743.2	711.1	706.4
77.5°	9021.0	6555.9	792.0	462.6	507.8	663.6	788.4	782.5	838.4	989.4	956.1
80°	6145.6	4359.5	570.8	347.2	404.3	465.0	679.0	807.4	1060.7	623.1	611.2
82.5°	3572.3	2561.5	356.7	230.7	241.4	316.3	425.7	852.6	709.9	280.6	354.4
85°	1725.5	1115.4	178.4	159.3	110.6	118.9	197.4	794.4	503.0	124.9	25.0
87.5°	550.6	271.1	19.0	14.3	16.6	23.8	93.9	485.2	296.1	107.0	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)