

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: P285818

Luminaire Tested: **PRV-XL-C150-D-UNV-T3-BZ-7050-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C150-D-UNV-T3-BZ-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38065 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

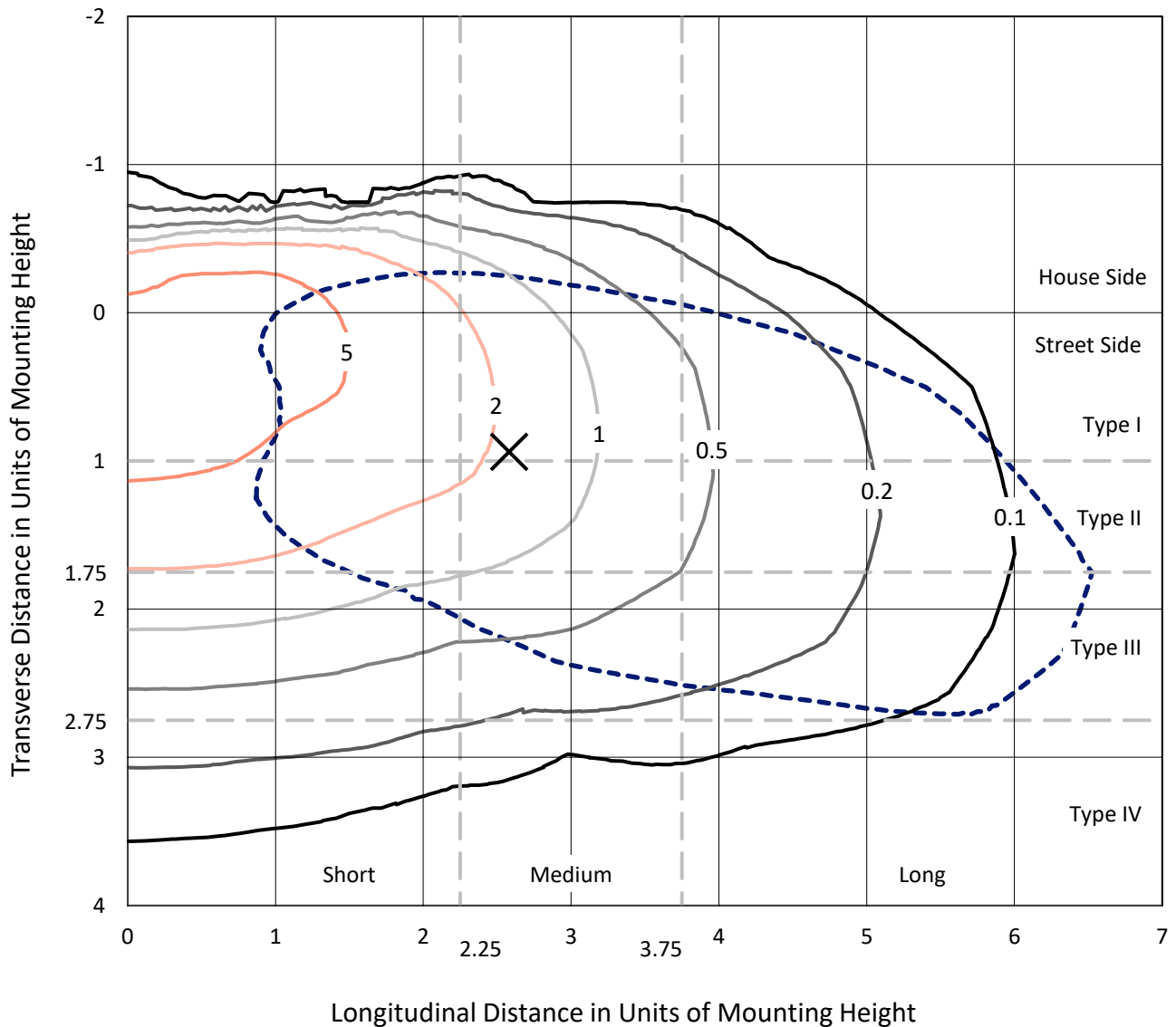
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P285818
 CATALOG NUMBER: PRV-XL-C150-D-UNV-T3-BZ-7050-HSS

Iso-Footcandle Lines of Horizontal Illumination

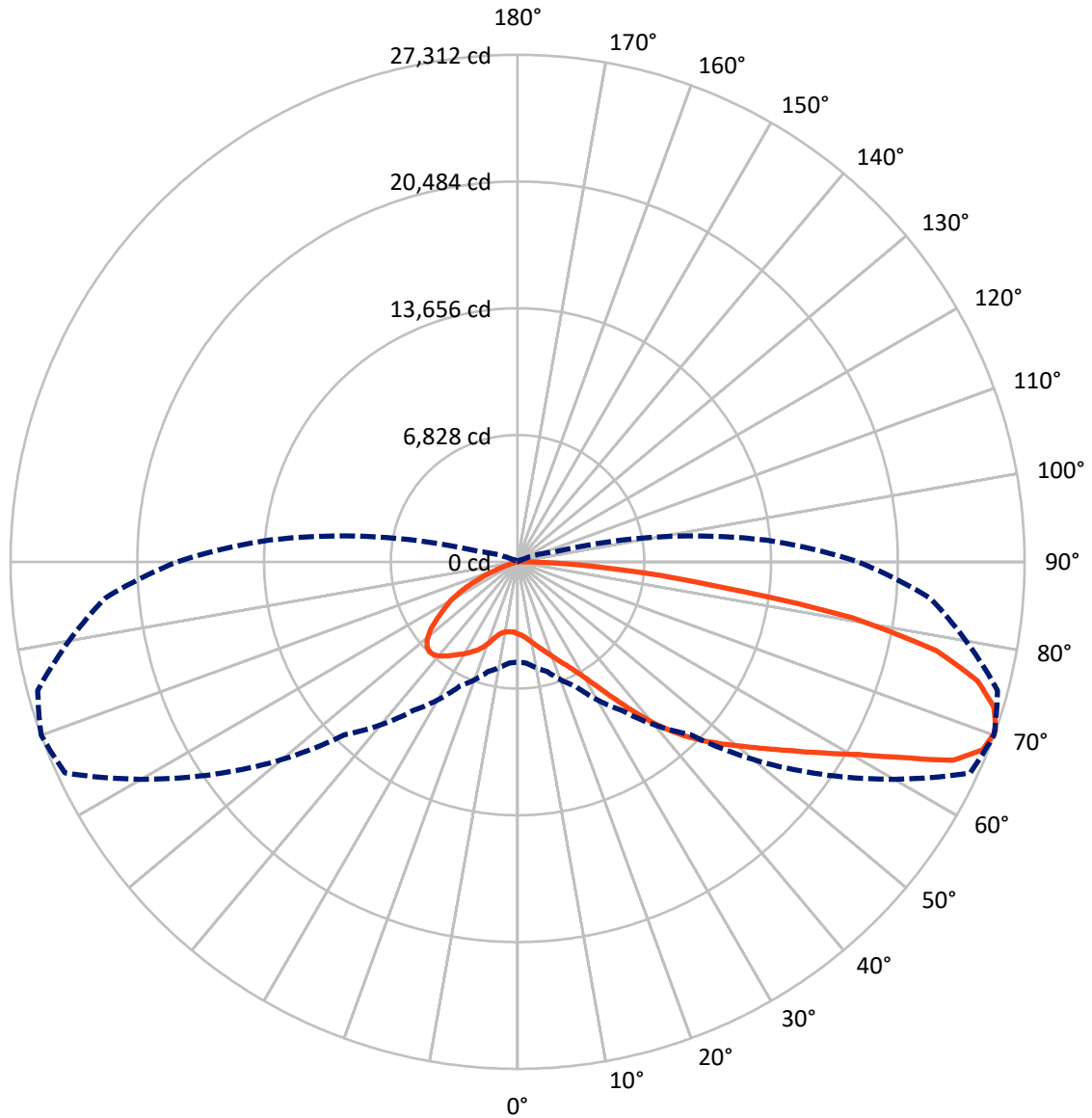
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - N/A

REPORT NUMBER: P285818
CATALOG NUMBER: PRV-XL-C150-D-UNV-T3-BZ-7050-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P285818
 CATALOG NUMBER: PRV-XL-C150-D-UNV-T3-BZ-7050-HSS

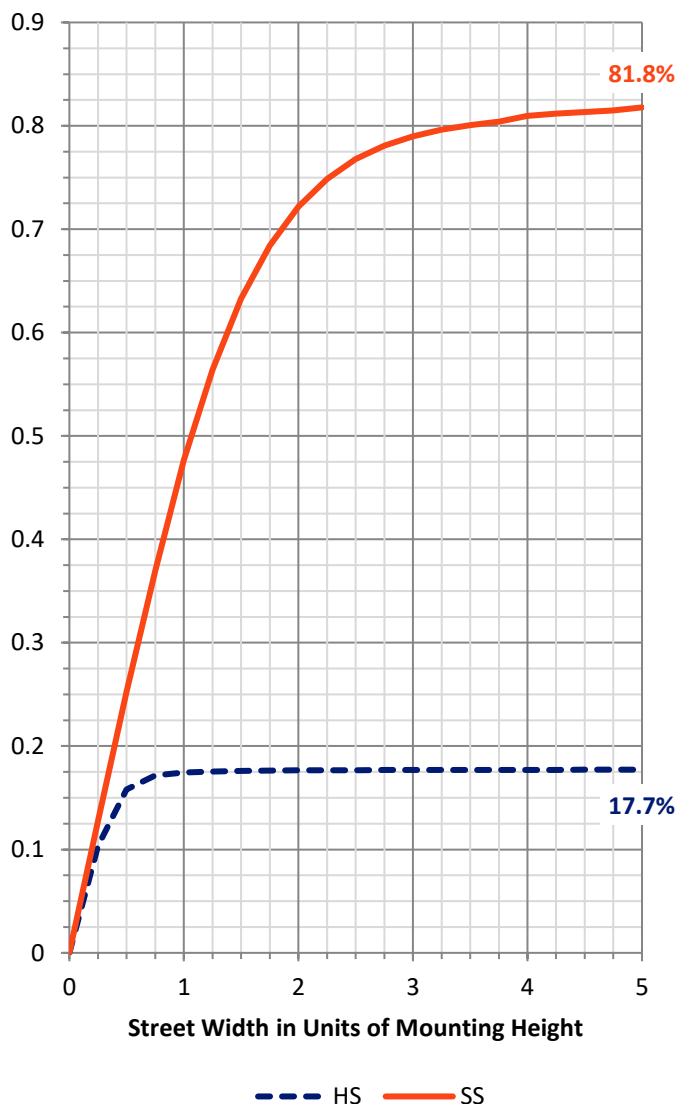
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6821.0	0.0	6821.0
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	31244.0	0.0	31244.0
	% Fixture	82.1	0.0	82.1
Total	Lumens	38065.0	0.0	38065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.1	1.0
10°-20°	1181.9	3.1
20°-30°	2152.1	5.7
30°-40°	3658.8	9.6
40°-50°	5755.2	15.1
50°-60°	7768.9	20.4
60°-70°	9088.8	23.9
70°-80°	6763.0	17.8
80°-90°	1320.3	3.5
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°	38065.0	100.0
0°-180°	38065.0	100.0

Coefficient of Utilization



REPORT NUMBER: P285818

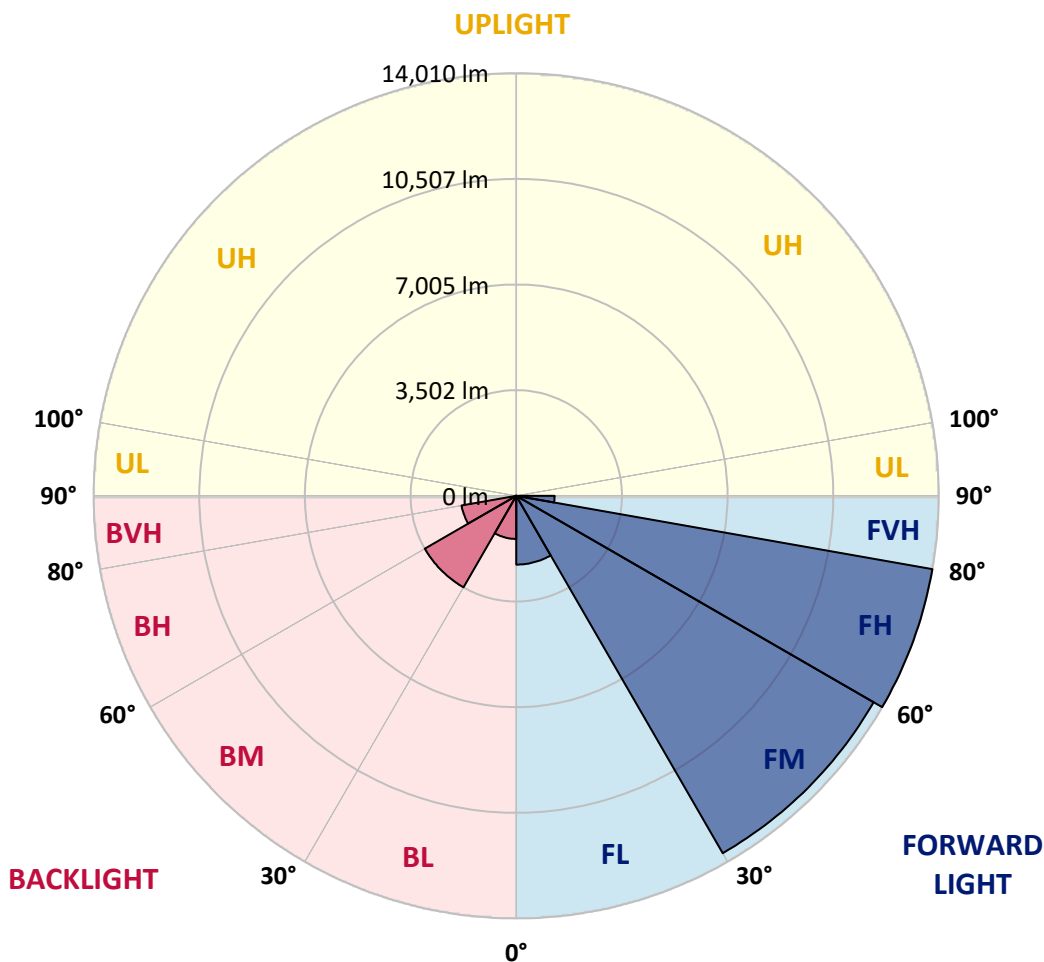
CATALOG NUMBER: PRV-XL-C150-D-UNV-T3-BZ-7050-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2280.3	6.0			
FM (30°-60°)	13682.1	35.9			
FH (60°-80°)	14009.7	36.8			G5
FVH (80°-90°)	1271.9	3.3			G5
BL (0°-30°)	1429.7	3.8	B3/2500		
BM (30°-60°)	3500.8	9.2	B3/5000		
BH (60°-80°)	1842.1	4.8	B3/2500		G3/2500
BVH (80°-90°)	48.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P285818

CATALOG NUMBER: PRV-XL-C150-D-UNV-T3-BZ-7050-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5
2.5°	4108.5	4105.3	4111.7	4095.6	4105.3	4074.8	4047.5	4009.1	3949.8	3928.9	3888.9
5°	4308.8	4312.0	4310.4	4299.2	4284.8	4252.7	4198.2	4145.3	4074.8	4041.1	3962.6
7.5°	4480.4	4482.0	4488.4	4485.2	4477.2	4435.5	4385.8	4318.5	4233.5	4190.2	4082.8
10°	4616.6	4615.0	4624.6	4639.1	4671.1	4639.1	4573.3	4518.8	4427.5	4369.8	4236.7
12.5°	4706.4	4695.2	4722.4	4762.5	4820.2	4825.0	4781.7	4725.6	4645.5	4578.1	4429.1
15°	4748.1	4743.2	4792.9	4876.3	4959.7	4986.9	4980.5	4938.8	4879.5	4812.2	4650.3
17.5°	4845.8	4844.2	4877.9	4975.7	5073.5	5142.4	5212.9	5206.5	5152.0	5103.9	4935.6
20°	5004.5	5007.7	5007.7	5092.7	5200.1	5321.9	5461.4	5504.7	5461.4	5432.5	5270.6
22.5°	5198.5	5184.1	5174.5	5245.0	5376.4	5546.3	5743.5	5823.7	5817.3	5788.4	5690.6
25°	5471.0	5438.9	5370.0	5458.2	5620.1	5818.9	6049.7	6184.3	6195.6	6203.6	6274.1
27.5°	5903.8	5902.2	5785.2	5791.6	5902.2	6133.0	6415.2	6647.6	6679.7	6769.4	7011.5
30°	6775.8	6687.7	6553.0	6338.2	6301.4	6519.4	6856.0	7211.9	7303.2	7577.3	7870.7
32.5°	7591.8	7526.0	7431.5	7183.0	6880.0	6960.2	7343.3	7870.7	8111.1	8657.7	8925.4
35°	8292.3	8258.6	8188.1	8040.6	7766.5	7559.7	7873.9	8603.2	9109.8	9911.3	10145.3
37.5°	8976.7	8951.1	8904.6	8774.8	8603.2	8293.9	8491.0	9467.3	10291.2	11230.5	11350.8
40°	9577.9	9569.8	9609.9	9529.8	9454.4	9262.1	9204.4	10379.4	11525.5	12516.1	12487.3
42.5°	10103.6	10090.8	10286.4	10180.6	10270.4	10196.6	10076.4	11232.1	12644.4	13570.9	13473.1
45°	10454.7	10448.3	10655.1	10760.9	11014.1	11068.6	10996.5	12117.0	13663.9	14537.5	14322.7
47.5°	10722.4	10704.8	10818.6	11225.7	11693.8	11804.4	11943.9	13104.4	14622.5	15391.9	15132.2
50°	10868.3	10874.7	11108.7	11658.5	12351.0	12605.9	12899.3	14277.8	15597.1	16307.2	15877.6
52.5°	10962.8	11031.8	11376.4	12038.5	12984.2	13431.5	13768.1	15545.8	16701.6	17171.2	16712.8
55°	11030.2	11152.0	11496.6	12243.6	13380.2	14120.7	14612.9	16882.7	17958.3	18254.8	17597.6
57.5°	10595.8	10725.6	11305.9	12280.5	13707.2	14702.6	15581.1	18314.2	19428.2	19455.5	18420.0
60°	9885.6	9965.8	10708.0	12054.5	13660.7	15238.0	16768.9	20010.1	21066.5	21052.1	19436.3
62.5°	9151.5	9193.1	9946.6	11458.2	13397.8	15435.2	17900.6	22289.6	23196.9	22768.9	20471.8
65°	8181.7	8228.1	9005.6	10473.9	12666.8	15302.1	18868.8	24679.6	25768.1	25085.2	21473.7
67.5°	6918.5	7006.7	7724.8	9089.0	11477.4	14600.0	19606.2	26317.9	27018.4	26420.5	22175.8
70°	5395.7	5474.2	6115.4	7401.0	9762.2	13168.6	19949.2	26895.0	27311.7	26763.5	22294.4
72.5°	3842.4	3900.1	4183.8	5259.4	7404.2	11004.5	19623.8	26617.6	26834.0	26149.6	21489.7
75°	2925.5	2879.0	3047.3	3454.4	4331.3	7732.8	17644.1	25364.1	25585.3	24830.3	19920.4
77.5°	2117.5	2080.7	2282.7	2598.4	3021.6	3635.6	12402.3	22789.7	23075.0	22457.9	17256.2
80°	1245.5	1298.4	1566.1	1865.9	2202.5	2422.1	5847.7	17025.4	18282.1	18030.4	12580.3
82.5°	237.2	256.5	650.8	989.0	1213.5	1284.0	2213.7	9364.7	10733.6	11007.7	6646.0
85°	155.5	168.3	389.5	397.5	387.9	496.9	894.5	4512.4	5794.8	5860.5	2919.0
87.5°	72.1	80.1	118.6	171.5	218.0	261.3	295.0	1211.9	1790.5	1832.2	577.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P285818

CATALOG NUMBER: PRV-XL-C150-D-UNV-T3-BZ-7050-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5	3890.5
2.5°	3868.0	3852.0	3818.3	3789.5	3770.2	3759.0	3694.9	3683.7	3659.6	3642.0	3634.0
5°	3925.7	3895.3	3813.5	3757.4	3685.3	3626.0	3518.6	3464.1	3432.0	3398.3	3390.3
7.5°	4023.5	3973.8	3845.6	3744.6	3621.2	3513.8	3363.1	3276.5	3215.6	3167.5	3162.7
10°	4161.4	4082.8	3898.5	3751.0	3573.1	3425.6	3238.0	3098.6	3013.6	2951.1	2947.9
12.5°	4332.9	4225.5	3997.9	3802.3	3573.1	3369.5	3146.7	2960.7	2835.7	2750.7	2741.1
15°	4547.7	4419.4	4163.0	3922.5	3651.6	3391.9	3084.2	2834.1	2651.3	2515.1	2508.7
17.5°	4815.4	4682.3	4432.3	4161.4	3800.7	3427.2	3037.7	2685.0	2420.5	2258.6	2241.0
20°	5153.6	5091.1	4834.6	4438.7	3954.6	3444.8	2933.5	2478.2	2119.2	1910.8	1883.5
22.5°	5637.7	5602.4	5235.4	4675.9	4042.7	3390.3	2762.0	2148.0	1712.0	1487.6	1466.7
25°	6243.6	6121.8	5594.4	4852.3	4058.8	3270.1	2471.8	1726.4	1239.1	1016.3	1008.3
27.5°	6875.2	6654.0	5905.4	4975.7	4012.3	3028.0	2064.7	1227.9	772.6	630.0	631.6
30°	7671.9	7251.9	6258.1	5092.7	3904.9	2699.4	1530.9	764.6	485.7	399.1	387.9
32.5°	8590.4	8008.5	6610.7	5139.2	3704.5	2234.6	971.4	469.7	304.6	259.7	254.9
35°	9662.8	8944.7	7064.4	5144.0	3374.3	1660.7	581.9	275.7	206.8	208.4	211.6
37.5°	10781.7	9936.9	7617.4	5086.3	2962.3	1038.7	328.6	177.9	177.9	211.6	222.8
40°	11794.8	10885.9	8204.1	4956.4	2382.0	604.3	185.9	153.9	163.5	198.8	208.4
42.5°	12724.5	11706.6	8741.1	4754.5	1700.8	327.0	160.3	139.5	147.5	163.5	168.3
45°	13529.2	12420.0	9127.4	4429.1	1032.3	202.0	147.5	126.6	125.0	136.3	139.5
47.5°	14223.3	13058.0	9388.7	3964.2	540.2	192.4	142.7	115.4	107.4	112.2	113.8
50°	14935.1	13530.8	9486.5	3311.8	277.3	181.1	133.0	107.4	99.4	113.8	115.4
52.5°	15654.8	14241.0	9499.3	2399.7	219.6	163.5	121.8	99.4	96.2	126.6	131.4
55°	16355.3	14758.7	9315.0	1389.8	213.2	152.3	110.6	89.8	93.0	96.2	96.2
57.5°	17094.3	15379.1	8927.1	607.5	206.8	139.5	102.6	81.8	68.9	76.9	80.1
60°	17886.2	15914.5	8146.4	351.1	197.2	125.0	88.2	67.3	57.7	57.7	62.5
62.5°	18686.1	16307.2	6868.8	256.5	187.5	117.0	76.9	59.3	48.1	48.1	51.3
65°	19205.4	16045.9	5297.9	227.6	181.1	105.8	67.3	51.3	38.5	36.9	40.1
67.5°	19110.8	15045.7	3731.8	203.6	165.1	96.2	59.3	44.9	33.7	27.3	28.9
70°	18327.0	13410.6	2069.5	190.8	147.5	88.2	52.9	40.1	27.3	17.6	17.6
72.5°	16882.7	11269.0	795.1	171.5	131.4	76.9	48.1	38.5	24.0	9.6	8.0
75°	14726.7	8576.0	286.9	144.3	109.0	70.5	46.5	40.1	22.4	3.2	0.0
77.5°	11546.3	4799.4	169.9	107.4	81.8	60.9	49.7	40.1	12.8	0.0	0.0
80°	6202.0	1732.8	120.2	68.9	54.5	44.9	44.9	32.1	6.4	0.0	0.0
82.5°	2574.4	389.5	76.9	38.5	36.9	28.9	28.9	14.4	1.6	0.0	0.0
85°	729.4	113.8	35.3	20.8	20.8	16.0	8.0	0.0	0.0	0.0	0.0
87.5°	62.5	24.0	9.6	11.2	8.0	3.2	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

(END OF REPORT)