

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: P285771

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

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-6)
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-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28755 lumens
Efficiency: N/A
Efficacy: 132.5 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

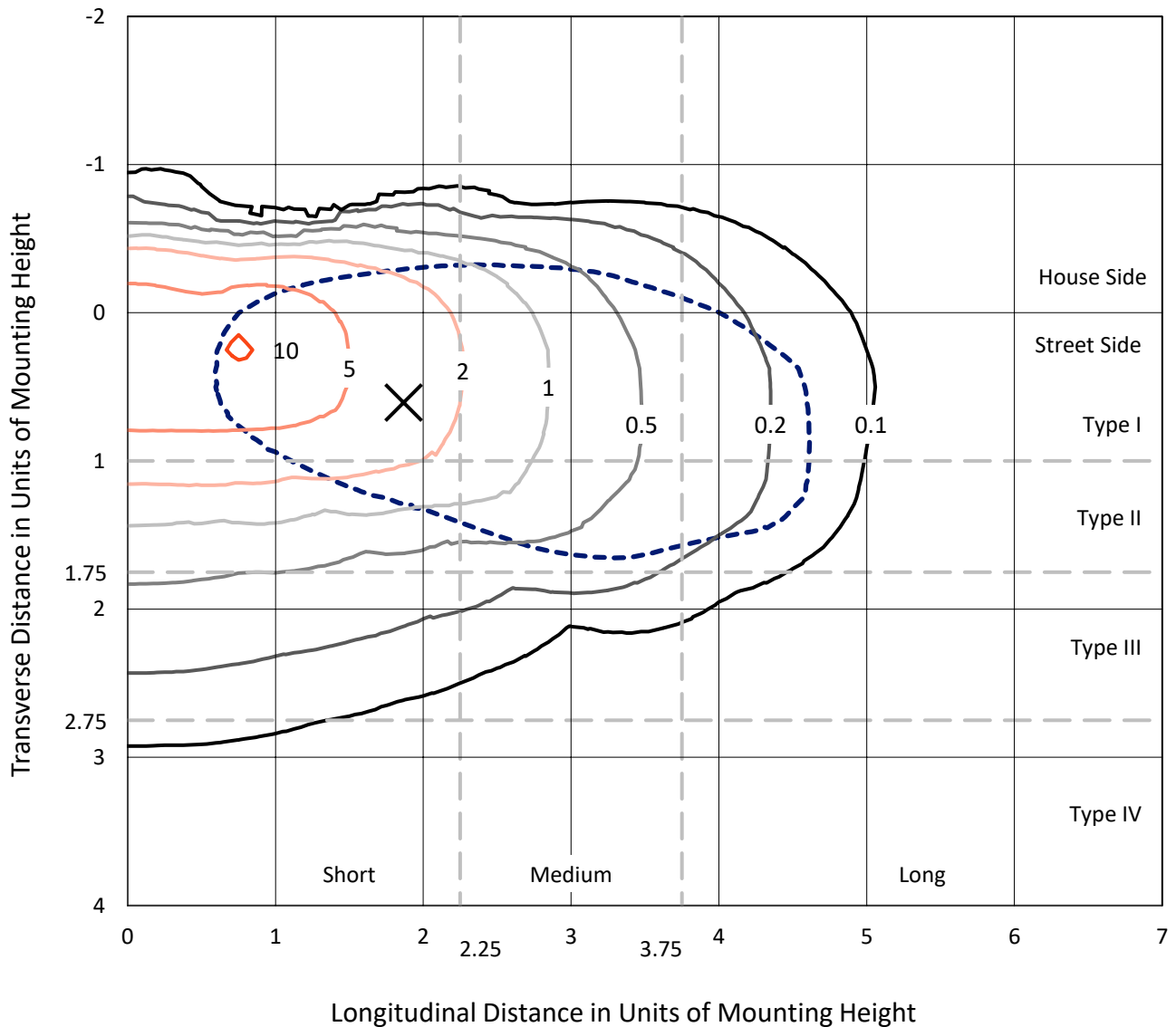
Input Watts (W): 217
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P285771
 CATALOG NUMBER: PRV-XL-C100-D-UNV-T2-BZ-HSS

Iso-Footcandle Lines of Horizontal Illumination

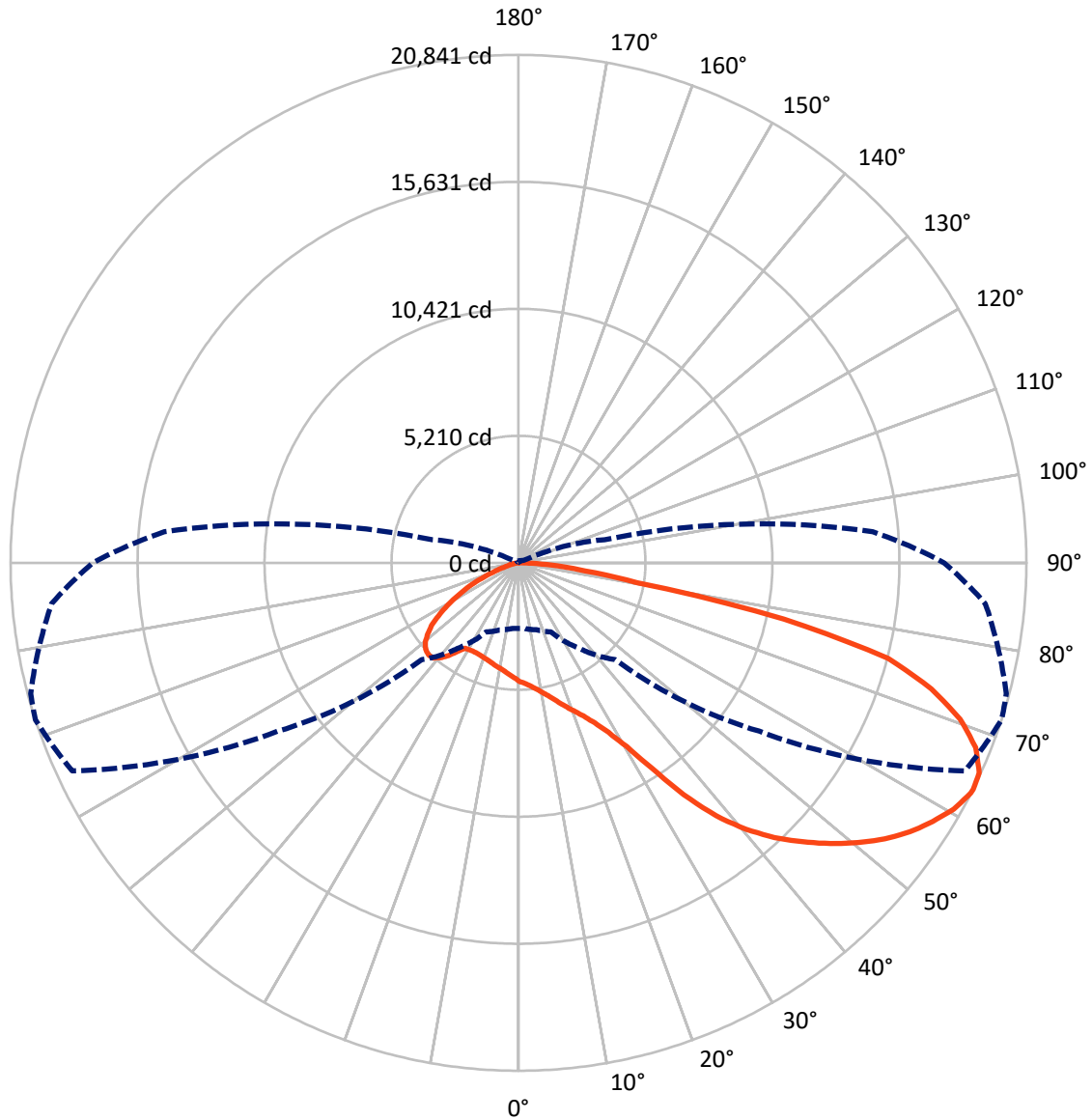
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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CATALOG NUMBER: PRV-XL-C100-D-UNV-T2-BZ-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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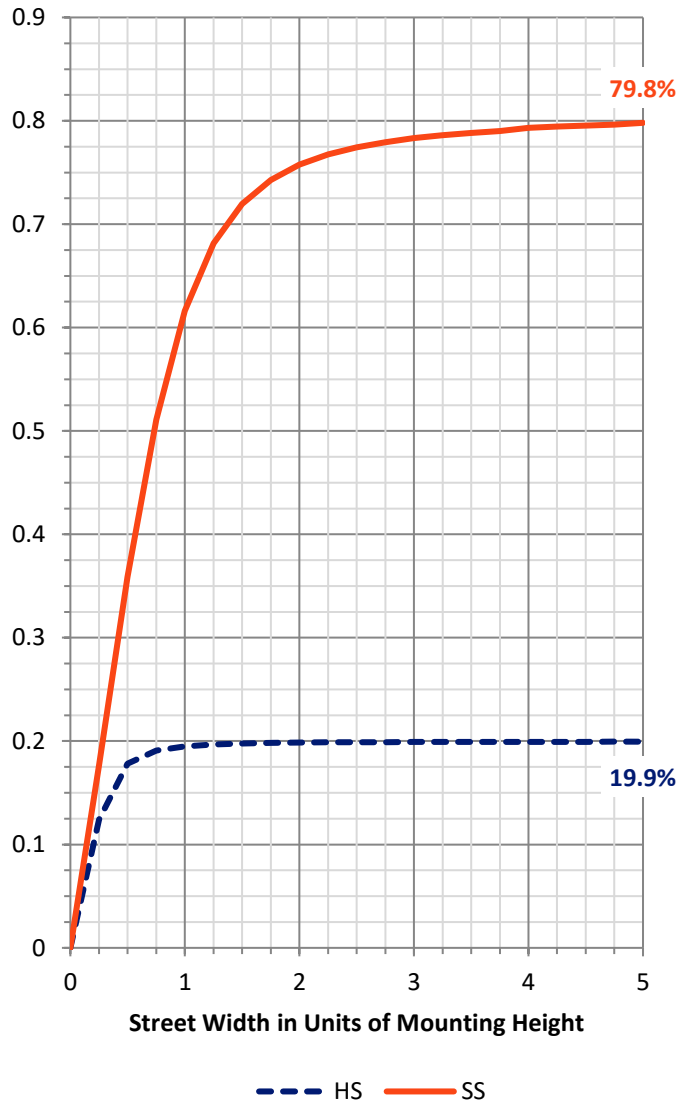
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5801.2	0.0	5801.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	22953.8	0.0	22953.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	28755.0	0.0	28755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.7	1.6
10°-20°	1409.2	4.9
20°-30°	2377.8	8.3
30°-40°	3639.0	12.7
40°-50°	5069.6	17.6
50°-60°	5875.8	20.4
60°-70°	5760.3	20.0
70°-80°	3596.4	12.5
80°-90°	562.1	2.0
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°	28755.0	100.0
0°-180°	28755.0	100.0

Coefficient of Utilization

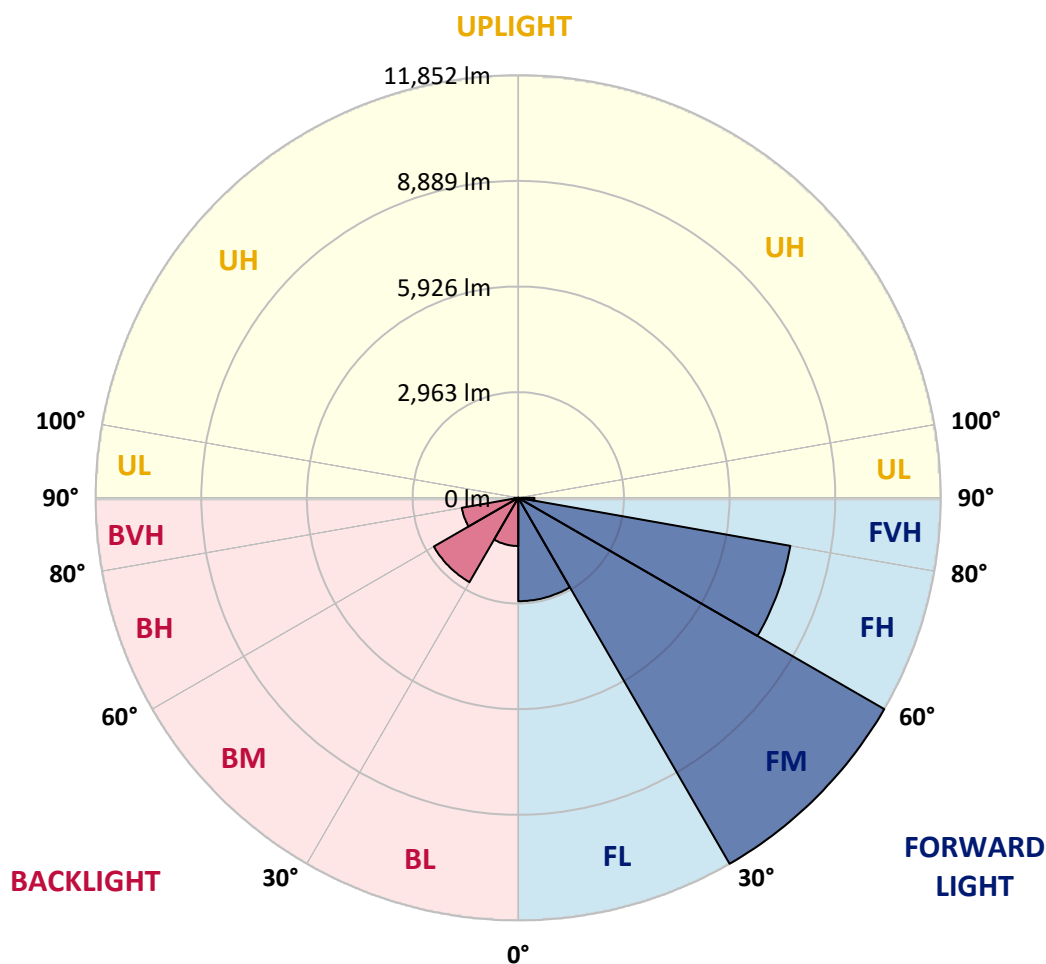


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2899.3	10.1			
FM (30°-60°)	11851.5	41.2			
FH (60°-80°)	7748.6	26.9			G4/12000
FVH (80°-90°)	454.4	1.6			G3/500
BL (0°-30°)	1352.4	4.7	B3/2500		
BM (30°-60°)	2733.0	9.5	B3/5000		
BH (60°-80°)	1608.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	107.7	0.4			G2/225
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°	72°	75°	85°
0°	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2
2.5°	5288.1	5273.9	5258.4	5239.4	5223.9	5176.4	5133.6	5051.5	4950.4	4945.7	4863.6
5°	5648.5	5625.9	5608.0	5574.7	5537.9	5453.4	5354.7	5216.8	5072.9	5050.3	4905.2
7.5°	5949.3	5925.5	5905.3	5862.5	5820.9	5717.4	5590.2	5404.7	5226.3	5181.1	4963.5
10°	6212.1	6188.3	6178.8	6132.4	6102.7	5989.7	5831.6	5630.6	5407.1	5338.1	5051.5
12.5°	6489.2	6464.2	6447.6	6398.8	6363.1	6243.0	6102.7	5878.0	5624.7	5551.0	5177.6
15°	6762.7	6740.1	6702.0	6675.9	6634.3	6509.4	6377.4	6143.1	5891.0	5798.3	5346.4
17.5°	7014.8	6995.8	6967.2	6944.6	6910.1	6780.5	6636.6	6438.1	6180.0	6065.9	5540.2
20°	7200.3	7201.5	7189.6	7177.7	7189.6	7083.8	6967.2	6746.0	6480.9	6347.7	5741.2
22.5°	7359.6	7369.2	7384.6	7402.5	7478.6	7426.2	7285.9	7106.4	6822.2	6665.2	5999.3
25°	7438.1	7445.3	7514.2	7630.8	7802.0	7800.8	7670.0	7540.4	7270.5	7107.5	6358.4
27.5°	7484.5	7494.0	7590.3	7824.6	8126.6	8173.0	8119.5	8062.4	7874.6	7711.6	6832.9
30°	7482.1	7495.2	7643.9	7937.6	8382.3	8617.8	8622.5	8833.0	8743.8	8632.0	7633.2
32.5°	7303.8	7308.5	7515.4	7948.3	8575.0	9012.6	9208.8	9760.5	10036.4	10056.6	9111.3
35°	6880.4	6941.1	7250.2	7852.0	8714.1	9399.0	9906.8	10946.1	11678.6	11713.1	10595.3
37.5°	6576.0	6612.9	6964.9	7679.5	8778.3	9802.2	10708.3	12369.5	13171.0	13086.6	11823.7
40°	6243.0	6288.2	6649.7	7448.8	8737.9	10148.2	11525.2	13735.9	14378.0	14246.0	12870.2
42.5°	5874.4	5912.5	6252.5	7107.5	8609.4	10397.9	12313.6	14916.7	15410.2	15248.5	13821.5
45°	5511.7	5536.7	5858.9	6647.3	8362.1	10550.1	13033.1	15979.8	16325.8	16189.1	14697.9
47.5°	5051.5	5081.2	5476.0	6208.6	7909.0	10545.4	13656.2	16925.2	17214.1	17061.9	15479.2
50°	3895.7	3914.7	4786.3	5810.2	7324.0	10336.1	14190.1	17781.4	18053.7	17880.1	16252.1
52.5°	3529.4	3544.9	3814.8	5314.3	6685.4	9902.1	14540.9	18571.0	18817.1	18631.6	16981.1
55°	3354.6	3365.3	3496.1	4324.9	6125.3	9157.6	14695.5	19302.3	19489.0	19248.8	17573.3
57.5°	3107.2	3128.7	3326.1	3704.2	5577.1	8014.9	14474.3	19893.3	20033.6	19798.2	18150.0
60°	2919.4	2932.4	3098.9	3398.6	4914.8	6736.5	13684.7	20292.8	20521.2	20308.3	18692.2
62.5°	2736.2	2741.0	2880.1	3171.5	4339.2	5781.6	12337.4	20267.9	20820.8	20688.8	19165.5
63°	2697.0	2701.7	2843.3	3129.8	4254.8	5623.5	12042.5	20207.2	20841.0	20720.9	19228.6
65°	2530.5	2537.6	2675.6	2939.6	3888.5	5122.9	10736.8	19833.8	20773.3	20769.7	19313.0
67.5°	2282.0	2295.1	2412.8	2638.7	3389.1	4490.2	8723.6	19435.5	20228.6	20271.4	18840.9
70°	1981.1	1990.6	2123.8	2314.1	2851.6	3812.4	6680.6	18161.9	19227.4	19108.4	17746.9
72.5°	1662.4	1679.1	1806.3	1953.8	2365.2	3145.3	4837.5	15989.3	17724.3	17812.3	15912.0
75°	1450.8	1460.3	1569.7	1674.3	1964.5	2503.2	3235.7	11481.2	15671.8	15694.4	13726.4
77.5°	1203.4	1215.3	1328.3	1427.0	1593.5	1884.8	2232.0	5967.2	11143.5	11776.2	10658.3
80°	663.5	770.6	957.3	1029.8	1153.5	1145.2	1419.8	3153.6	4931.4	6165.7	7039.8
82.5°	111.8	143.9	386.5	504.2	549.4	482.8	689.7	1736.2	2749.3	3154.8	3788.6
85°	47.6	69.0	202.2	221.2	137.9	134.4	272.3	908.5	1573.2	1812.3	1952.6
87.5°	5.9	10.7	52.3	69.0	32.1	44.0	54.7	284.2	548.2	630.2	712.3
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°	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2	4867.2
2.5°	4824.4	4797.0	4734.0	4685.3	4649.6	4600.8	4548.5	4510.4	4470.0	4452.2	4459.3
5°	4831.5	4770.9	4636.5	4530.7	4412.9	4326.1	4213.2	4156.1	4094.2	4063.3	4062.1
7.5°	4850.5	4755.4	4543.7	4377.3	4209.6	4074.0	3926.6	3825.5	3770.8	3730.4	3725.6
10°	4898.1	4762.5	4473.6	4247.6	4031.2	3849.3	3669.7	3538.9	3464.0	3422.4	3428.3
12.5°	4983.7	4788.7	4423.6	4141.8	3863.5	3647.1	3417.6	3264.2	3172.7	3121.5	3135.8
15°	5101.5	4845.8	4372.5	4011.0	3684.0	3429.5	3184.5	3010.9	2908.7	2864.7	2878.9
17.5°	5233.4	4929.0	4336.8	3864.7	3494.9	3207.1	2980.0	2810.0	2638.7	2604.2	2604.2
20°	5380.9	5021.8	4330.9	3725.6	3308.2	2995.5	2733.9	2591.2	2342.6	2258.2	2240.4
22.5°	5575.9	5152.6	4323.7	3598.4	3109.6	2776.7	2455.6	2230.8	1908.6	1763.5	1749.2
25°	5844.7	5333.3	4335.6	3493.7	2928.9	2530.5	2072.7	1712.4	1441.2	1259.3	1249.8
27.5°	6205.0	5574.7	4373.7	3396.2	2748.1	2227.3	1605.4	1221.3	1012.0	849.1	800.3
30°	6886.4	5956.5	4440.3	3309.4	2537.6	1820.6	1141.6	826.5	676.6	563.7	538.7
32.5°	8188.5	6914.9	4531.8	3213.1	2278.4	1341.4	762.2	551.8	430.5	365.1	379.3
35°	9487.0	8110.0	4968.3	3071.6	1937.1	893.1	509.0	352.0	271.1	268.7	284.2
37.5°	10657.2	9167.2	5558.1	2913.4	1480.5	600.5	305.6	234.3	227.1	247.3	278.3
40°	11627.5	10025.7	6056.3	2692.2	1016.7	367.4	199.8	212.9	202.2	210.5	206.9
42.5°	12528.9	10798.7	6460.7	2441.3	599.3	211.7	173.6	197.4	181.9	174.8	160.5
45°	13339.9	11527.6	6664.0	2046.5	349.6	168.9	158.2	186.7	176.0	162.9	141.5
47.5°	14078.3	12167.4	6797.2	1506.7	201.0	147.5	147.5	167.7	165.3	149.8	137.9
50°	14844.2	12792.9	6784.1	925.2	170.0	135.6	140.3	140.3	148.6	116.5	105.8
52.5°	15520.8	13355.3	6513.0	524.4	157.0	128.4	127.2	114.2	121.3	90.4	84.4
55°	16070.2	13792.9	6057.5	346.0	148.6	127.2	111.8	98.7	92.8	65.4	67.8
57.5°	16610.0	14209.2	5360.7	273.5	154.6	122.5	102.3	84.4	72.5	51.1	48.8
60°	17130.9	14540.9	4622.2	246.2	162.9	122.5	84.4	71.3	48.8	39.2	34.5
62.5°	17446.0	14613.5	3805.3	222.4	167.7	114.2	76.1	58.3	35.7	26.2	23.8
63°	17468.6	14592.1	3660.2	218.8	168.9	114.2	76.1	55.9	34.5	23.8	21.4
65°	17434.1	14322.1	3094.2	206.9	172.4	109.4	72.5	45.2	27.4	16.6	14.3
67.5°	16857.4	13419.6	2293.9	193.8	165.3	108.2	66.6	36.9	21.4	10.7	8.3
70°	15445.9	12018.7	1532.8	172.4	159.3	105.8	78.5	30.9	17.8	5.9	4.8
72.5°	13474.3	10507.3	1026.2	141.5	139.1	86.8	47.6	26.2	13.1	2.4	0.0
75°	11388.5	8456.0	635.0	108.2	113.0	73.7	38.1	22.6	10.7	0.0	0.0
77.5°	8865.1	6246.6	451.9	69.0	79.7	63.0	32.1	19.0	8.3	0.0	0.0
80°	6048.0	4233.4	327.0	38.1	41.6	41.6	26.2	14.3	4.8	0.0	0.0
82.5°	3508.0	2372.4	166.5	19.0	17.8	21.4	11.9	7.1	1.2	0.0	0.0
85°	1711.2	1051.2	28.5	10.7	9.5	9.5	4.8	0.0	0.0	0.0	0.0
87.5°	580.3	272.3	3.6	4.8	3.6	1.2	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)