

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: P285779

Luminaire Tested: **PRV-XL-C175-D-UNV-T2-BZ-7050-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285779
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-C175-D-UNV-T2-BZ-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K 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: 45818 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

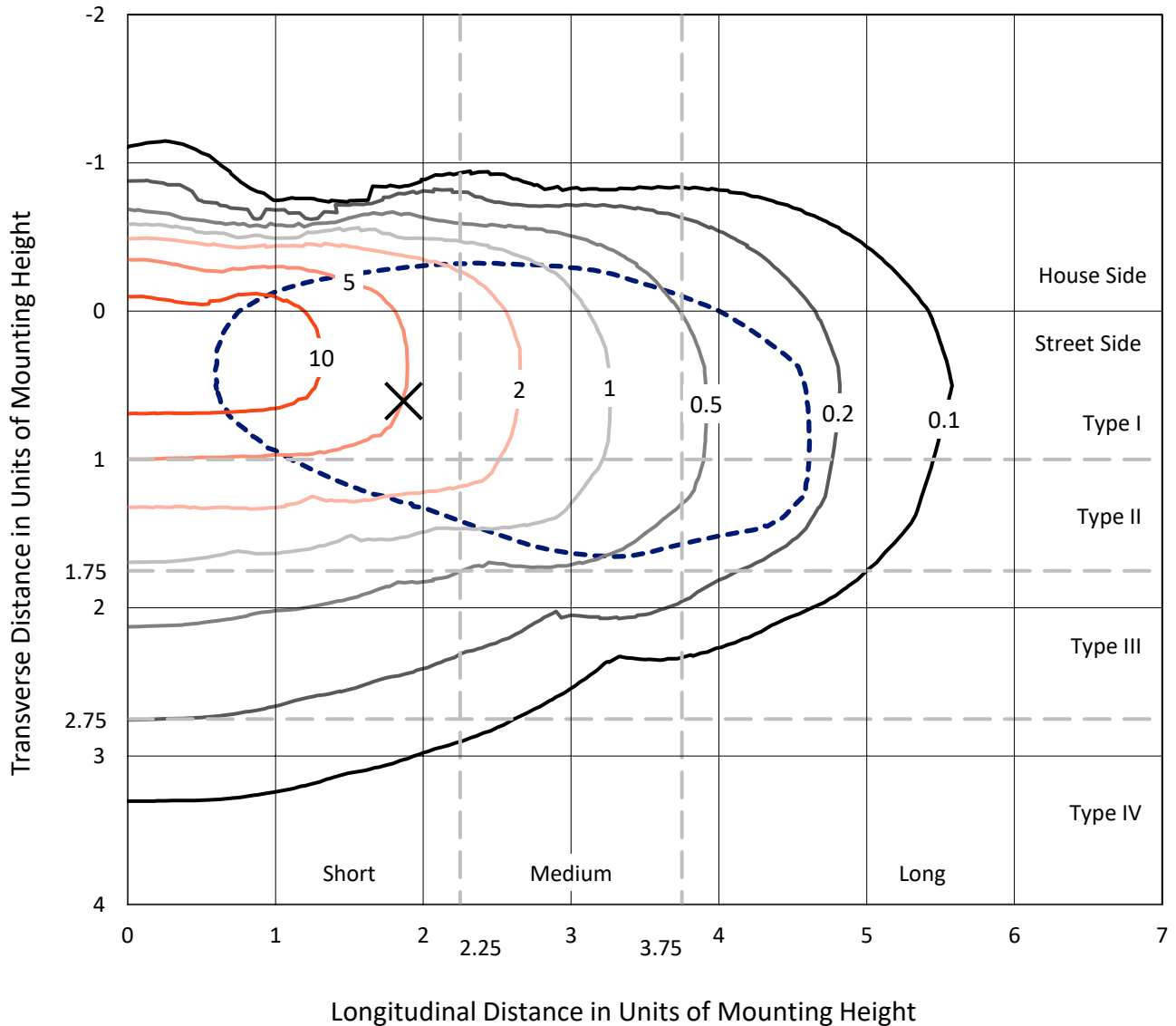
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

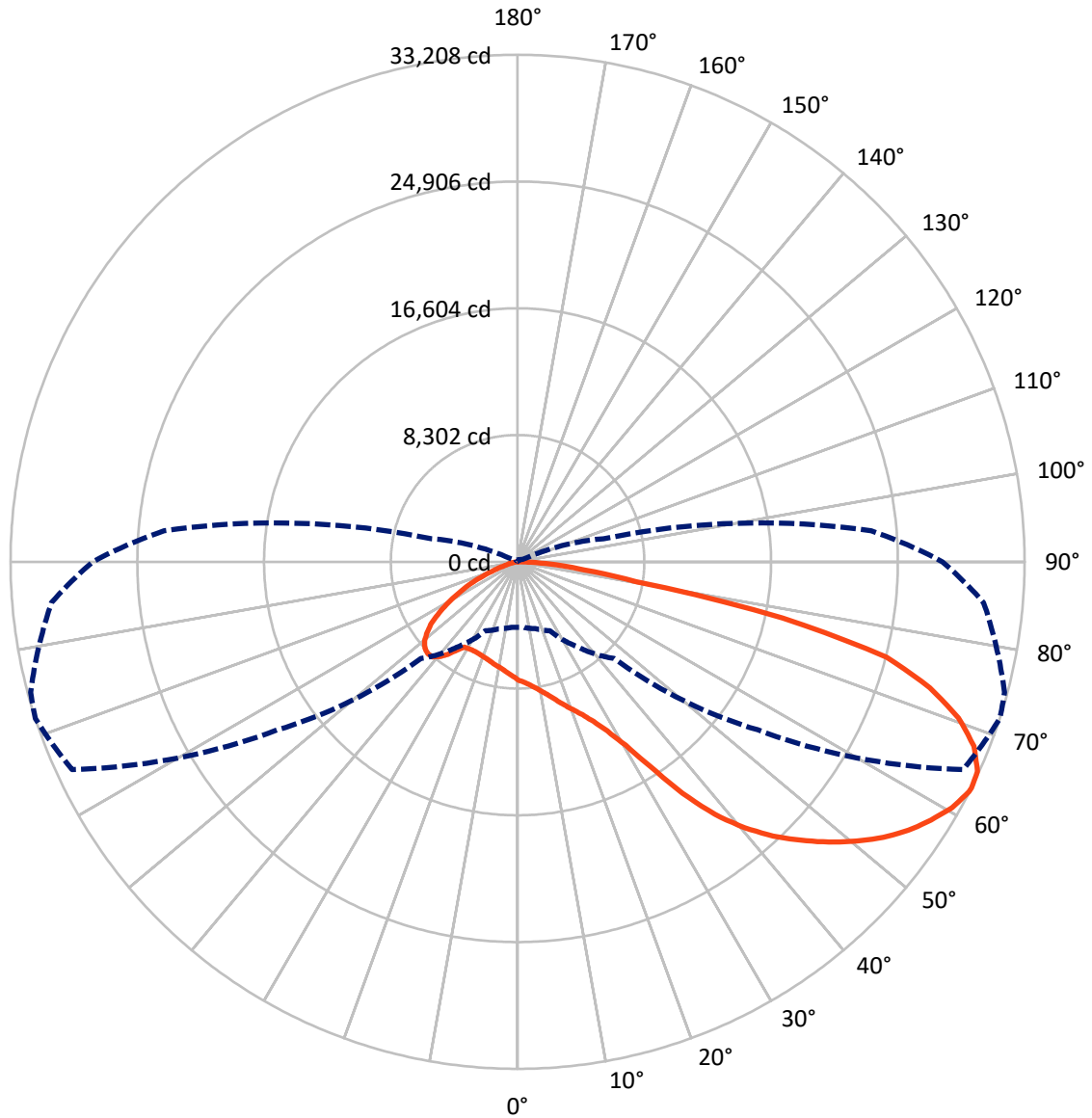
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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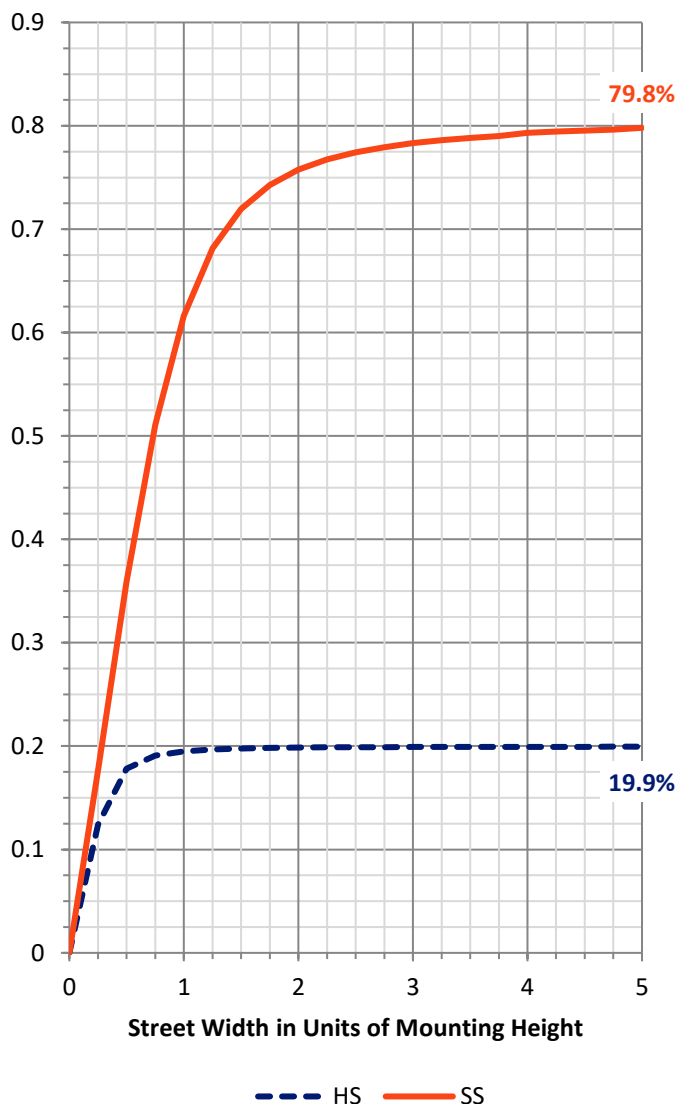
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9243.6	0.0	9243.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	36574.4	0.0	36574.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	45818.0	0.0	45818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.5	1.6
10°-20°	2245.4	4.9
20°-30°	3788.7	8.3
30°-40°	5798.4	12.7
40°-50°	8077.9	17.6
50°-60°	9362.4	20.4
60°-70°	9178.5	20.0
70°-80°	5730.4	12.5
80°-90°	895.7	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°	45818.0	100.0
0°-180°	45818.0	100.0

Coefficient of Utilization



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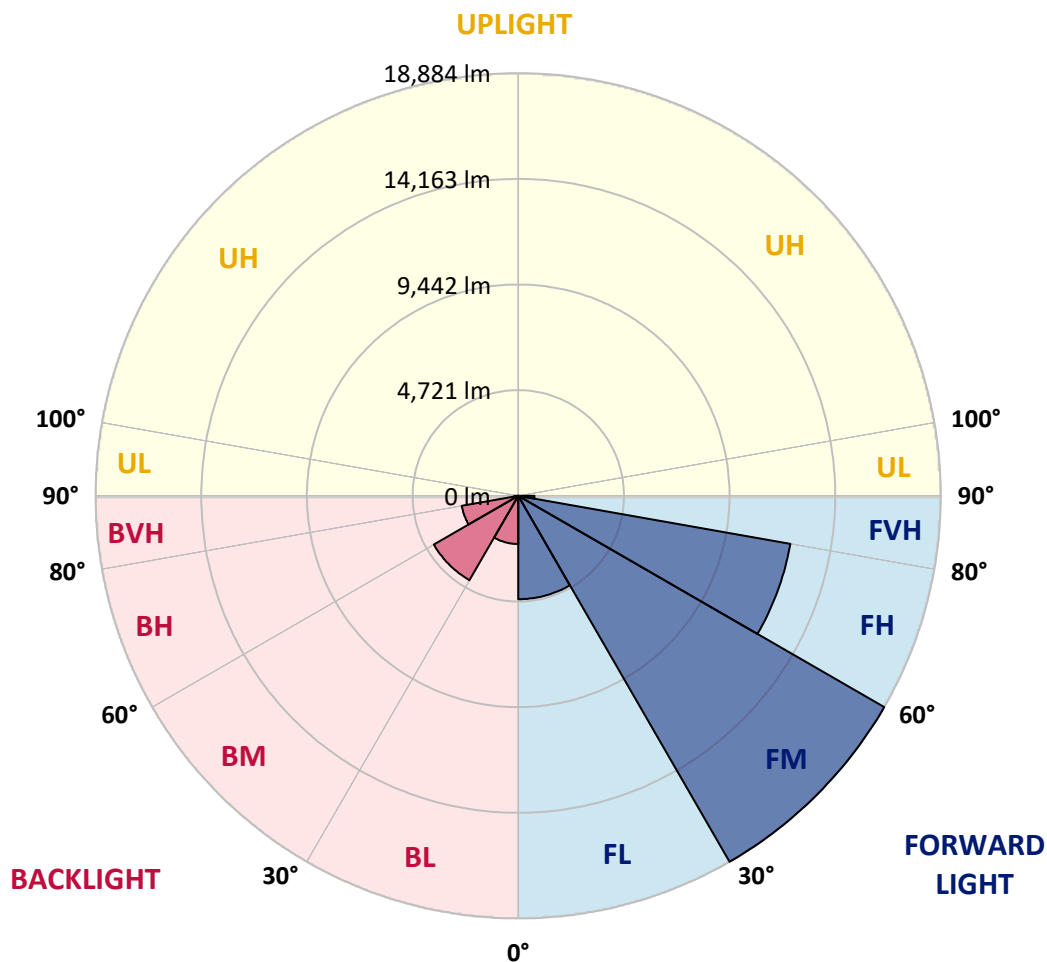
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4619.7	10.1			
FM (30°-60°)	18884.1	41.2			
FH (60°-80°)	12346.5	26.9			G5
FVH (80°-90°)	724.1	1.6			G4/750
BL (0°-30°)	2154.9	4.7	B3/2500		
BM (30°-60°)	4354.7	9.5	B3/5000		
BH (60°-80°)	2562.4	5.6	B4/5000		G4/5000
BVH (80°-90°)	171.6	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	7755.3	7755.3	7755.3	7755.3	7755.3	7755.3	7755.3	7755.3	7755.3	7755.3	7755.3
2.5°	8426.1	8403.4	8378.7	8348.4	8323.8	8248.0	8179.8	8049.0	7888.0	7880.4	7749.7
5°	9000.2	8964.2	8935.8	8882.7	8824.0	8689.5	8532.2	8312.4	8083.1	8047.1	7816.0
7.5°	9479.6	9441.7	9409.5	9341.3	9275.0	9110.1	8907.4	8611.8	8327.6	8255.6	7908.8
10°	9898.3	9860.4	9845.3	9771.4	9724.0	9544.0	9292.0	8971.8	8615.6	8505.7	8049.0
12.5°	10339.8	10300.0	10273.5	10195.8	10139.0	9947.6	9724.0	9365.9	8962.3	8844.8	8249.9
15°	10775.6	10739.6	10679.0	10637.3	10571.0	10372.0	10161.7	9788.4	9386.8	9239.0	8518.9
17.5°	11177.3	11147.0	11101.5	11065.5	11010.6	10804.0	10574.8	10258.4	9847.2	9665.3	8827.8
20°	11472.9	11474.8	11455.9	11436.9	11455.9	11287.2	11101.5	10749.1	10326.6	10114.3	9148.0
22.5°	11726.8	11742.0	11766.6	11795.0	11916.3	11832.9	11609.3	11323.2	10870.4	10620.3	9559.2
25°	11851.9	11863.2	11973.1	12158.8	12431.7	12429.8	12221.3	12014.8	11584.7	11325.1	10131.4
27.5°	11925.8	11940.9	12094.4	12467.7	12948.9	13022.8	12937.6	12846.6	12547.2	12287.7	10887.4
30°	11922.0	11942.8	12179.7	12647.7	13356.3	13731.5	13739.1	14074.4	13932.3	13754.2	12162.6
32.5°	11637.8	11645.3	11975.0	12664.7	13663.3	14360.6	14673.2	15552.4	15992.0	16024.2	14517.8
35°	10963.2	11059.8	11552.5	12511.2	13885.0	14976.4	15785.4	17441.5	18608.7	18663.6	16882.5
37.5°	10478.1	10536.9	11097.7	12236.5	13987.3	15618.7	17062.5	19709.5	20986.6	20852.1	18839.8
40°	9947.6	10019.6	10595.6	11868.9	13922.9	16170.1	18364.2	21886.6	22909.8	22699.5	20507.2
42.5°	9360.2	9420.9	9962.8	11325.1	13718.2	16568.0	19620.5	23768.1	24554.5	24296.8	22023.1
45°	8782.3	8822.1	9335.6	10591.8	13324.1	16810.5	20766.8	25462.1	26013.5	25795.6	23419.5
47.5°	8049.0	8096.4	8725.5	9892.7	12602.2	16802.9	21759.7	26968.4	27428.9	27186.3	24664.4
50°	6207.3	6237.6	7626.5	9257.9	11670.0	16469.4	22610.4	28332.7	28766.6	28489.9	25896.0
52.5°	5623.7	5648.3	6078.5	8467.8	10652.5	15777.9	23169.4	29590.8	29983.0	29687.4	27057.5
55°	5345.2	5362.2	5570.7	6891.3	9760.0	14591.7	23415.7	30756.1	31053.6	30670.8	28001.1
57.5°	4951.1	4985.2	5299.7	5902.2	8886.5	12770.8	23063.3	31697.8	31921.4	31546.2	28920.1
60°	4651.7	4672.5	4937.8	5415.3	7831.1	10733.9	21805.2	32334.5	32698.3	32359.1	29784.1
62.5°	4359.9	4367.5	4589.2	5053.4	6914.1	9212.4	19658.4	32294.7	33175.7	32965.4	30538.2
63°	4297.4	4304.9	4530.4	4987.1	6779.5	8960.4	19188.5	32198.0	33208.0	33016.6	30638.6
65°	4032.1	4043.5	4263.3	4683.9	6195.9	8162.7	17108.0	31603.1	33100.0	33094.3	30773.2
67.5°	3636.1	3656.9	3844.5	4204.5	5400.1	7154.7	13900.1	30968.3	32232.1	32300.4	30020.9
70°	3156.7	3171.9	3384.1	3687.2	4543.7	6074.7	10644.9	28939.0	30636.7	30447.3	28277.7
72.5°	2648.9	2675.4	2878.2	3113.1	3768.7	5011.7	7708.0	25477.2	28241.7	28381.9	25354.1
75°	2311.6	2326.8	2501.1	2667.9	3130.2	3988.5	5155.7	18294.1	24971.3	25007.3	21871.5
77.5°	1917.5	1936.5	2116.5	2273.7	2539.0	3003.2	3556.5	9508.0	17756.0	18764.0	16982.9
80°	1057.3	1227.8	1525.3	1640.9	1837.9	1824.7	2262.4	5025.0	7857.7	9824.4	11217.1
82.5°	178.1	229.3	615.8	803.4	875.4	769.3	1099.0	2766.4	4380.7	5026.9	6036.8
85°	75.8	109.9	322.1	352.4	219.8	214.1	433.9	1447.6	2506.8	2887.6	3111.2
87.5°	9.5	17.1	83.4	109.9	51.2	70.1	87.2	452.9	873.5	1004.2	1135.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7755.3	7755.3	7755.3	7755.3	7755.3	7755.3	7755.3	7755.3	7755.3	7755.3	7755.3
2.5°	7687.1	7643.6	7543.1	7465.4	7408.6	7330.9	7247.5	7186.9	7122.5	7094.1	7105.4
5°	7698.5	7601.9	7387.8	7219.1	7031.5	6893.2	6713.2	6622.3	6523.7	6474.5	6472.6
7.5°	7728.8	7577.2	7240.0	6974.7	6707.5	6491.5	6256.6	6095.5	6008.4	5943.9	5936.4
10°	7804.6	7588.6	7128.2	6768.2	6423.3	6133.4	5847.3	5638.9	5519.5	5453.2	5462.7
12.5°	7941.0	7630.3	7048.6	6599.5	6156.1	5811.3	5445.6	5201.2	5055.3	4973.8	4996.5
15°	8128.6	7721.2	6967.1	6391.1	5870.0	5464.6	5074.2	4797.6	4634.6	4564.5	4587.3
17.5°	8338.9	7853.9	6910.3	6158.0	5568.8	5110.2	4748.3	4477.4	4204.5	4149.6	4149.6
20°	8573.9	8001.7	6900.8	5936.4	5271.3	4773.0	4356.1	4128.7	3732.7	3598.2	3569.8
22.5°	8884.6	8210.1	6889.4	5733.6	4954.9	4424.3	3912.7	3554.6	3041.1	2810.0	2787.2
25°	9312.9	8498.1	6908.4	5566.9	4666.8	4032.1	3302.6	2728.5	2296.5	2006.6	1991.4
27.5°	9887.0	8882.7	6969.0	5411.5	4378.8	3548.9	2558.0	1945.9	1612.5	1352.9	1275.2
30°	10972.7	9491.0	7075.1	5273.2	4043.5	2900.9	1819.0	1316.9	1078.1	898.1	858.3
32.5°	13047.5	11018.2	7221.0	5119.7	3630.4	2137.3	1214.6	879.2	685.9	581.7	604.4
35°	15116.6	12922.4	7916.4	4894.2	3086.6	1423.0	811.0	560.9	432.0	428.2	452.9
37.5°	16981.0	14606.9	8856.2	4642.2	2359.0	956.9	487.0	373.3	361.9	394.1	443.4
40°	18527.2	15974.9	9650.1	4289.8	1620.0	585.5	318.3	339.2	322.1	335.4	329.7
42.5°	19963.4	17206.5	10294.4	3890.0	955.0	337.3	276.6	314.5	289.9	278.5	255.8
45°	21255.7	18368.0	10618.4	3260.9	557.1	269.1	252.0	297.5	280.4	259.6	225.5
47.5°	22432.3	19387.4	10830.6	2400.7	320.2	235.0	235.0	267.2	263.4	238.7	219.8
50°	23652.6	20384.1	10809.7	1474.1	271.0	216.0	223.6	223.6	236.8	185.7	168.6
52.5°	24730.7	21280.3	10377.7	835.6	250.1	204.6	202.7	181.9	193.3	144.0	134.5
55°	25606.1	21977.6	9652.0	551.4	236.8	202.7	178.1	157.3	147.8	104.2	108.0
57.5°	26466.3	22640.8	8541.7	435.8	246.3	195.2	163.0	134.5	115.6	81.5	77.7
60°	27296.2	23169.4	7365.0	392.2	259.6	195.2	134.5	113.7	77.7	62.5	54.9
62.5°	27798.4	23285.0	6063.3	354.3	267.2	181.9	121.3	92.8	56.8	41.7	37.9
63°	27834.4	23250.9	5832.1	348.6	269.1	181.9	121.3	89.1	54.9	37.9	34.1
65°	27779.4	22820.8	4930.2	329.7	274.7	174.3	115.6	72.0	43.6	26.5	22.7
67.5°	26860.4	21382.6	3655.0	308.8	263.4	172.4	106.1	58.7	34.1	17.1	13.3
70°	24611.3	19150.6	2442.4	274.7	253.9	168.6	125.1	49.3	28.4	9.5	7.6
72.5°	21469.8	16742.3	1635.2	225.5	221.7	138.3	75.8	41.7	20.8	3.8	0.0
75°	18146.3	13473.8	1011.8	172.4	180.0	117.5	60.6	36.0	17.1	0.0	0.0
77.5°	14125.6	9953.3	720.0	109.9	127.0	100.4	51.2	30.3	13.3	0.0	0.0
80°	9636.9	6745.4	521.1	60.6	66.3	66.3	41.7	22.7	7.6	0.0	0.0
82.5°	5589.6	3780.1	265.3	30.3	28.4	34.1	18.9	11.4	1.9	0.0	0.0
85°	2726.6	1675.0	45.5	17.1	15.2	15.2	7.6	0.0	0.0	0.0	0.0
87.5°	924.7	433.9	5.7	7.6	5.7	1.9	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)