

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: P285809

Luminaire Tested: **PRV-XL-C175-D-UNV-T3-BZ-7030-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285809
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-C175-D-UNV-T3-BZ-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K 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: 43389 lumens
Efficiency: N/A
Efficacy: 125.4 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

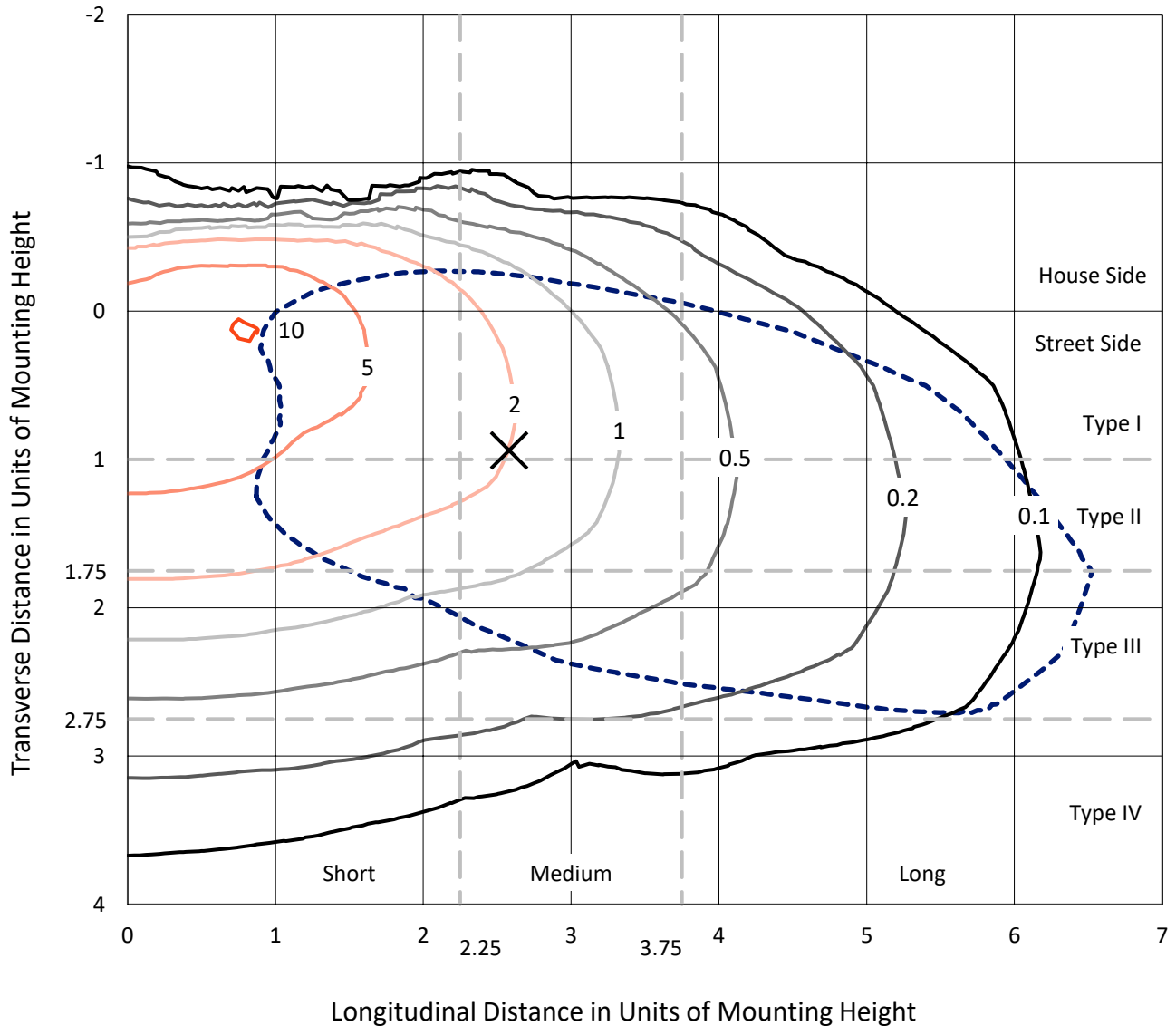
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P285809
 CATALOG NUMBER: PRV-XL-C175-D-UNV-T3-BZ-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

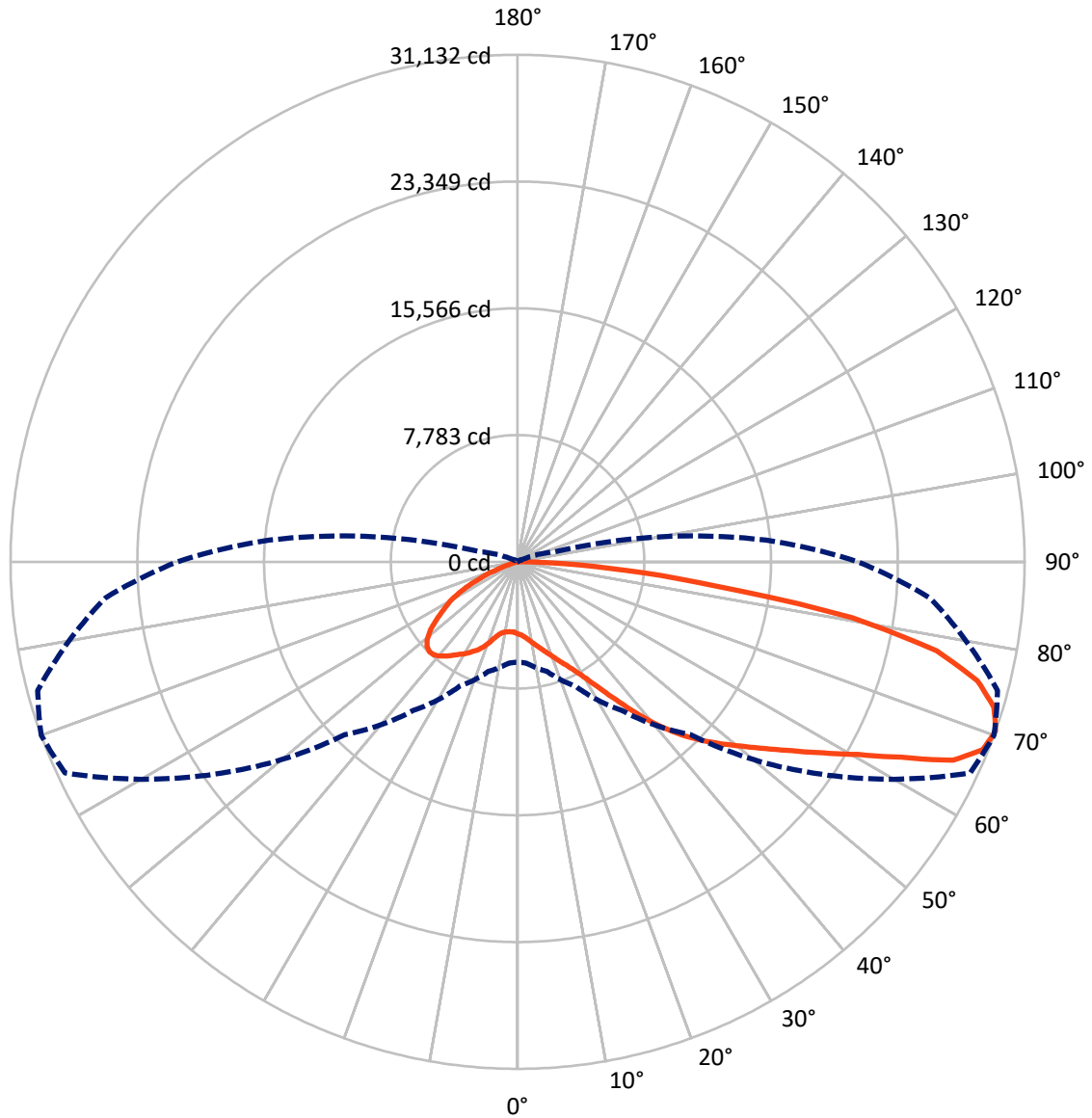
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P285809
CATALOG NUMBER: PRV-XL-C175-D-UNV-T3-BZ-7030-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P285809
 CATALOG NUMBER: PRV-XL-C175-D-UNV-T3-BZ-7030-HSS

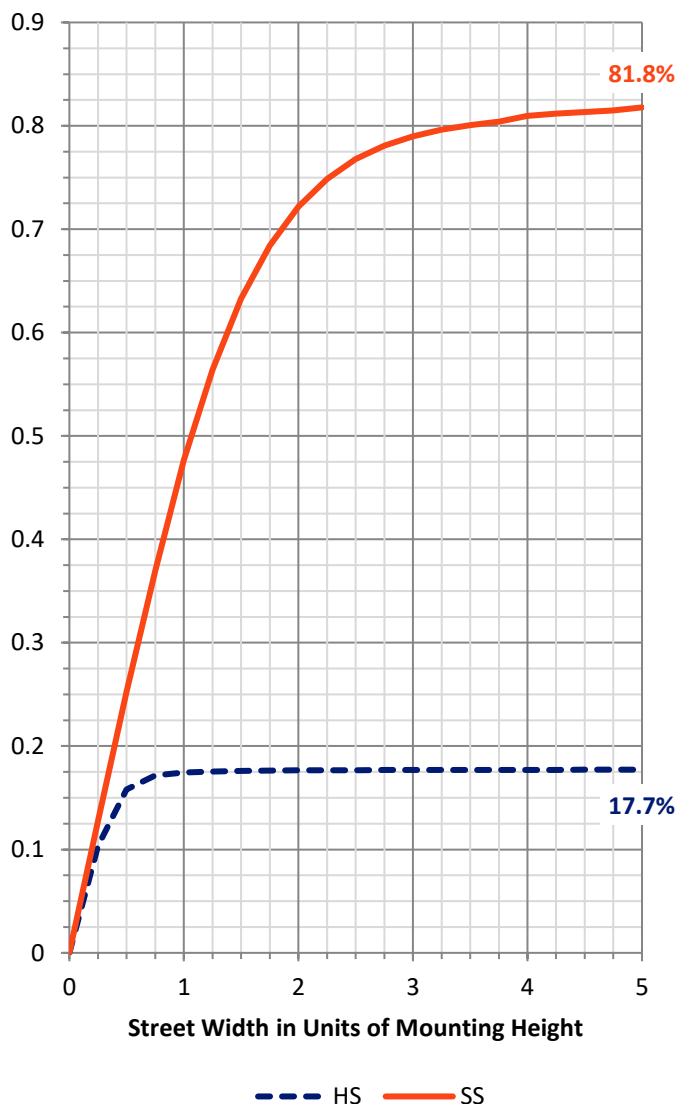
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7775.0	0.0	7775.0
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	35614.0	0.0	35614.0
	% Fixture	82.1	0.0	82.1
Total	Lumens	43389.0	0.0	43389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.6	1.0
10°-20°	1347.2	3.1
20°-30°	2453.1	5.7
30°-40°	4170.6	9.6
40°-50°	6560.1	15.1
50°-60°	8855.5	20.4
60°-70°	10360.0	23.9
70°-80°	7708.9	17.8
80°-90°	1504.9	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°	43389.0	100.0
0°-180°	43389.0	100.0

Coefficient of Utilization



REPORT NUMBER: P285809

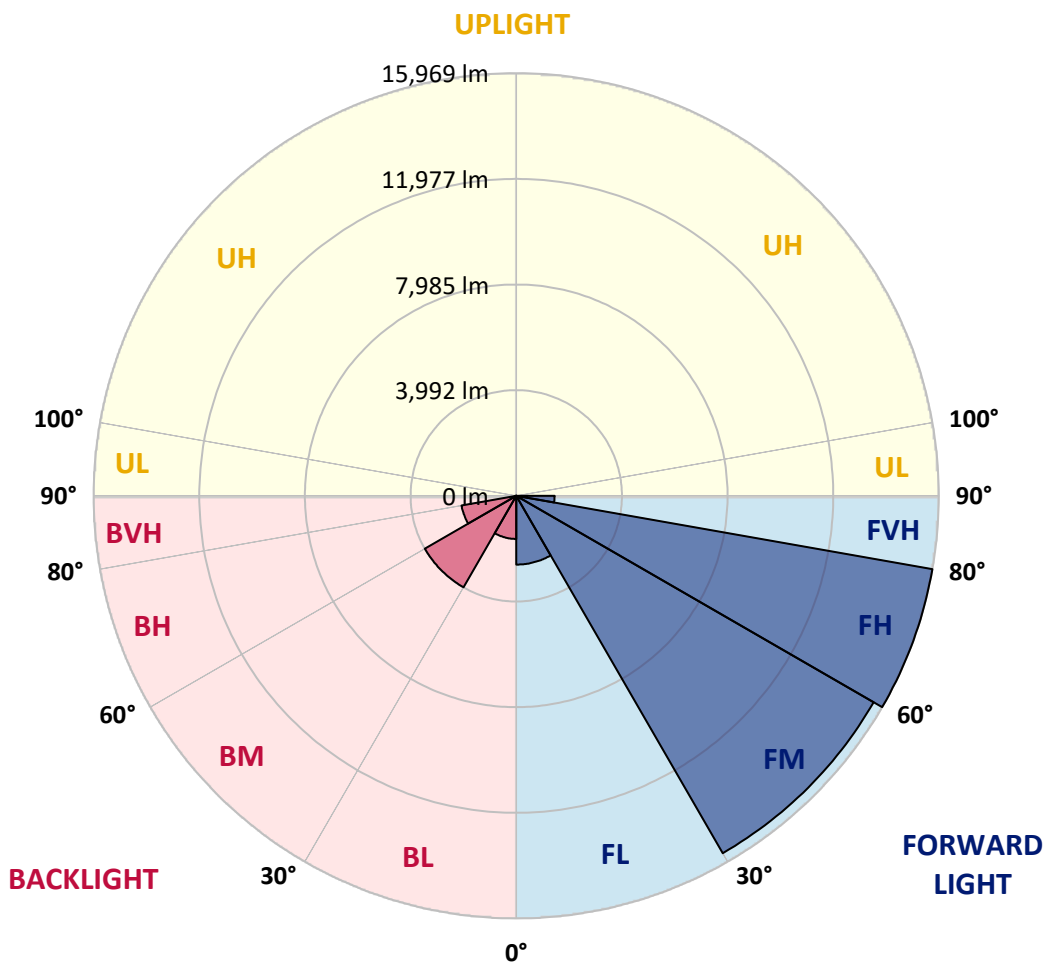
CATALOG NUMBER: PRV-XL-C175-D-UNV-T3-BZ-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2599.2	6.0			
FM (30°-60°)	15595.8	35.9			
FH (60°-80°)	15969.2	36.8			G5
FVH (80°-90°)	1449.8	3.3			G5
BL (0°-30°)	1629.7	3.8	B3/2500		
BM (30°-60°)	3990.4	9.2	B3/5000		
BH (60°-80°)	2099.8	4.8	B3/2500		G3/2500
BVH (80°-90°)	55.1	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: P285809

CATALOG NUMBER: PRV-XL-C175-D-UNV-T3-BZ-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6
2.5°	4683.1	4679.4	4686.8	4668.5	4679.4	4644.7	4613.7	4569.8	4502.2	4478.5	4432.8
5°	4911.5	4915.2	4913.3	4900.5	4884.1	4847.5	4785.4	4725.1	4644.7	4606.4	4516.8
7.5°	5107.0	5108.8	5116.1	5112.5	5103.4	5055.8	4999.2	4922.5	4825.6	4776.3	4653.9
10°	5262.3	5260.5	5271.5	5287.9	5324.4	5287.9	5213.0	5150.9	5046.7	4980.9	4829.3
12.5°	5364.6	5351.9	5382.9	5428.6	5494.4	5499.9	5450.5	5386.6	5295.2	5218.5	5048.5
15°	5412.1	5406.7	5463.3	5558.3	5653.3	5684.4	5677.1	5629.6	5562.0	5485.2	5300.7
17.5°	5523.6	5521.8	5560.2	5671.6	5783.1	5861.6	5942.0	5934.7	5872.6	5817.8	5625.9
20°	5704.5	5708.2	5708.2	5805.0	5927.4	6066.3	6225.2	6274.6	6225.2	6192.4	6007.8
22.5°	5925.6	5909.1	5898.2	5978.6	6128.4	6322.1	6546.8	6638.2	6630.9	6598.0	6486.5
25°	6236.2	6199.7	6121.1	6221.6	6406.1	6632.7	6895.8	7049.3	7062.1	7071.2	7151.6
27.5°	6729.6	6727.7	6594.3	6601.7	6727.7	6990.8	7312.4	7577.4	7613.9	7716.2	7992.1
30°	7723.5	7623.1	7469.6	7224.7	7182.7	7431.2	7814.9	8220.5	8324.7	8637.1	8971.5
32.5°	8653.6	8578.7	8470.9	8187.7	7842.3	7933.7	8370.4	8971.5	9245.6	9868.7	10173.8
35°	9452.1	9413.7	9333.3	9165.2	8852.8	8617.0	8975.2	9806.5	10383.9	11297.5	11564.3
37.5°	10232.3	10203.0	10150.1	10002.1	9806.5	9453.9	9678.6	10791.4	11730.6	12801.3	12938.4
40°	10917.5	10908.3	10954.0	10862.7	10776.8	10557.5	10491.7	11831.1	13137.5	14266.7	14233.8
42.5°	11516.8	11502.2	11725.1	11604.5	11706.8	11622.8	11485.7	12803.1	14412.9	15469.0	15357.6
45°	11917.0	11909.6	12145.4	12266.0	12554.6	12616.8	12534.5	13811.8	15575.0	16570.8	16326.0
47.5°	12222.1	12202.0	12331.7	12795.8	13329.4	13455.5	13614.4	14937.3	16667.7	17544.7	17248.7
50°	12388.4	12395.7	12662.5	13289.2	14078.5	14369.1	14703.4	16274.8	17778.6	18588.0	18098.4
52.5°	12496.2	12574.7	12967.6	13722.2	14800.3	15310.1	15693.8	17720.1	19037.5	19572.9	19050.3
55°	12572.9	12711.8	13104.6	13956.1	15251.6	16095.7	16656.7	19244.0	20470.0	20808.1	20058.9
57.5°	12077.7	12225.8	12887.2	13998.1	15624.3	16759.0	17760.3	20875.7	22145.6	22176.6	20996.3
60°	11268.3	11359.7	12205.7	13740.5	15571.3	17369.3	19114.3	22808.9	24013.0	23996.5	22154.7
62.5°	10431.4	10479.0	11337.7	13060.8	15271.7	17594.0	20404.3	25407.1	26441.3	25953.5	23335.1
65°	9326.0	9379.0	10265.2	11938.9	14438.5	17442.4	21507.9	28131.5	29372.1	28593.8	24477.1
67.5°	7886.2	7986.7	8805.2	10360.2	13082.7	16642.1	22348.4	29998.9	30797.3	30115.8	25277.4
70°	6150.3	6239.9	6970.7	8436.2	11127.6	15010.4	22739.4	30656.7	31131.7	30506.8	25412.6
72.5°	4379.8	4445.6	4769.0	5995.0	8439.8	12543.7	22368.5	30340.5	30587.2	29807.0	24495.4
75°	3334.6	3281.6	3473.5	3937.6	4937.1	8814.4	20111.9	28911.7	29163.8	28303.2	22706.5
77.5°	2413.7	2371.7	2601.9	2961.9	3444.3	4144.1	14137.0	25977.2	26302.5	25599.0	19669.7
80°	1419.7	1480.0	1785.2	2126.9	2510.6	2760.9	6665.6	19406.6	20839.1	20552.3	14339.8
82.5°	270.4	292.4	741.8	1127.4	1383.2	1463.6	2523.4	10674.5	12234.9	12547.3	7575.5
85°	177.2	191.9	444.0	453.1	442.2	566.4	1019.6	5143.6	6605.3	6680.2	3327.3
87.5°	82.2	91.4	135.2	195.5	248.5	297.8	336.2	1381.4	2041.0	2088.5	657.8
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: P285809

CATALOG NUMBER: PRV-XL-C175-D-UNV-T3-BZ-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6
2.5°	4409.0	4390.7	4352.4	4319.5	4297.6	4284.8	4211.7	4198.9	4171.5	4151.4	4142.2
5°	4474.8	4440.1	4346.9	4282.9	4200.7	4133.1	4010.7	3948.6	3912.0	3873.7	3864.5
7.5°	4586.3	4529.6	4383.4	4268.3	4127.6	4005.2	3833.5	3734.8	3665.4	3610.5	3605.1
10°	4743.4	4653.9	4443.7	4275.6	4072.8	3904.7	3690.9	3532.0	3435.1	3363.9	3360.2
12.5°	4938.9	4816.5	4557.0	4334.1	4072.8	3840.8	3586.8	3374.8	3232.3	3135.5	3124.5
15°	5183.7	5037.6	4745.2	4471.1	4162.3	3866.3	3515.5	3230.5	3022.2	2866.9	2859.6
17.5°	5488.9	5337.2	5052.2	4743.4	4332.3	3906.5	3462.5	3060.5	2759.1	2574.5	2554.4
20°	5874.4	5803.2	5510.8	5059.5	4507.7	3926.6	3343.8	2824.8	2415.5	2178.0	2147.0
22.5°	6426.2	6386.0	5967.6	5329.9	4608.2	3864.5	3148.3	2448.4	1951.4	1695.6	1671.9
25°	7116.9	6978.1	6376.9	5530.9	4626.5	3727.5	2817.5	1967.9	1412.4	1158.4	1149.3
27.5°	7836.8	7584.7	6731.4	5671.6	4573.5	3451.6	2353.4	1399.6	880.7	718.1	719.9
30°	8744.9	8266.2	7133.4	5805.0	4451.0	3077.0	1745.0	871.6	553.6	455.0	442.2
32.5°	9791.9	9128.7	7535.3	5858.0	4222.6	2547.1	1107.3	535.4	347.2	296.0	290.5
35°	11014.3	10195.7	8052.4	5863.5	3846.2	1893.0	663.3	314.3	235.7	237.5	241.2
37.5°	12289.7	11326.8	8682.8	5797.7	3376.7	1184.0	374.6	202.8	202.8	241.2	254.0
40°	13444.5	12408.5	9351.6	5649.7	2715.2	688.9	212.0	175.4	186.4	226.6	237.5
42.5°	14504.3	13344.0	9963.7	5419.5	1938.7	372.7	182.7	159.0	168.1	186.4	191.9
45°	15421.5	14157.1	10404.0	5048.5	1176.7	230.2	168.1	144.3	142.5	155.3	159.0
47.5°	16212.7	14884.3	10701.9	4518.6	615.8	219.3	162.6	131.6	122.4	127.9	129.7
50°	17024.0	15423.3	10813.3	3775.0	316.1	206.5	151.7	122.4	113.3	129.7	131.6
52.5°	17844.4	16232.8	10827.9	2735.3	250.3	186.4	138.9	113.3	109.6	144.3	149.8
55°	18642.9	16823.0	10617.8	1584.2	243.0	173.6	126.1	102.3	106.0	109.6	109.6
57.5°	19485.2	17530.1	10175.6	692.5	235.7	159.0	116.9	93.2	78.6	87.7	91.4
60°	20387.8	18140.4	9285.8	400.2	224.7	142.5	100.5	76.7	65.8	65.8	71.3
62.5°	21299.6	18588.0	7829.5	292.4	213.8	133.4	87.7	67.6	54.8	54.8	58.5
65°	21891.6	18290.2	6038.9	259.5	206.5	120.6	76.7	58.5	43.9	42.0	45.7
67.5°	21783.8	17150.0	4253.7	232.1	188.2	109.6	67.6	51.2	38.4	31.1	32.9
70°	20890.3	15286.3	2358.9	217.4	168.1	100.5	60.3	45.7	31.1	20.1	20.1
72.5°	19244.0	12845.2	906.3	195.5	149.8	87.7	54.8	43.9	27.4	11.0	9.1
75°	16786.4	9775.5	327.1	164.4	124.2	80.4	53.0	45.7	25.6	3.7	0.0
77.5°	13161.3	5470.6	193.7	122.4	93.2	69.4	56.6	45.7	14.6	0.0	0.0
80°	7069.4	1975.2	137.0	78.6	62.1	51.2	51.2	36.5	7.3	0.0	0.0
82.5°	2934.5	444.0	87.7	43.9	42.0	32.9	32.9	16.4	1.8	0.0	0.0
85°	831.4	129.7	40.2	23.8	23.8	18.3	9.1	0.0	0.0	0.0	0.0
87.5°	71.3	27.4	11.0	12.8	9.1	3.7	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)