

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: P287004

Luminaire Tested: **PRV-C40-D-UNV-T2-BZ-7030-HSS**

Issue Date: 3/4/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P287004  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-5)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 3/4/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-C40-D-UNV-T2-BZ-7030-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K 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: 15507 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

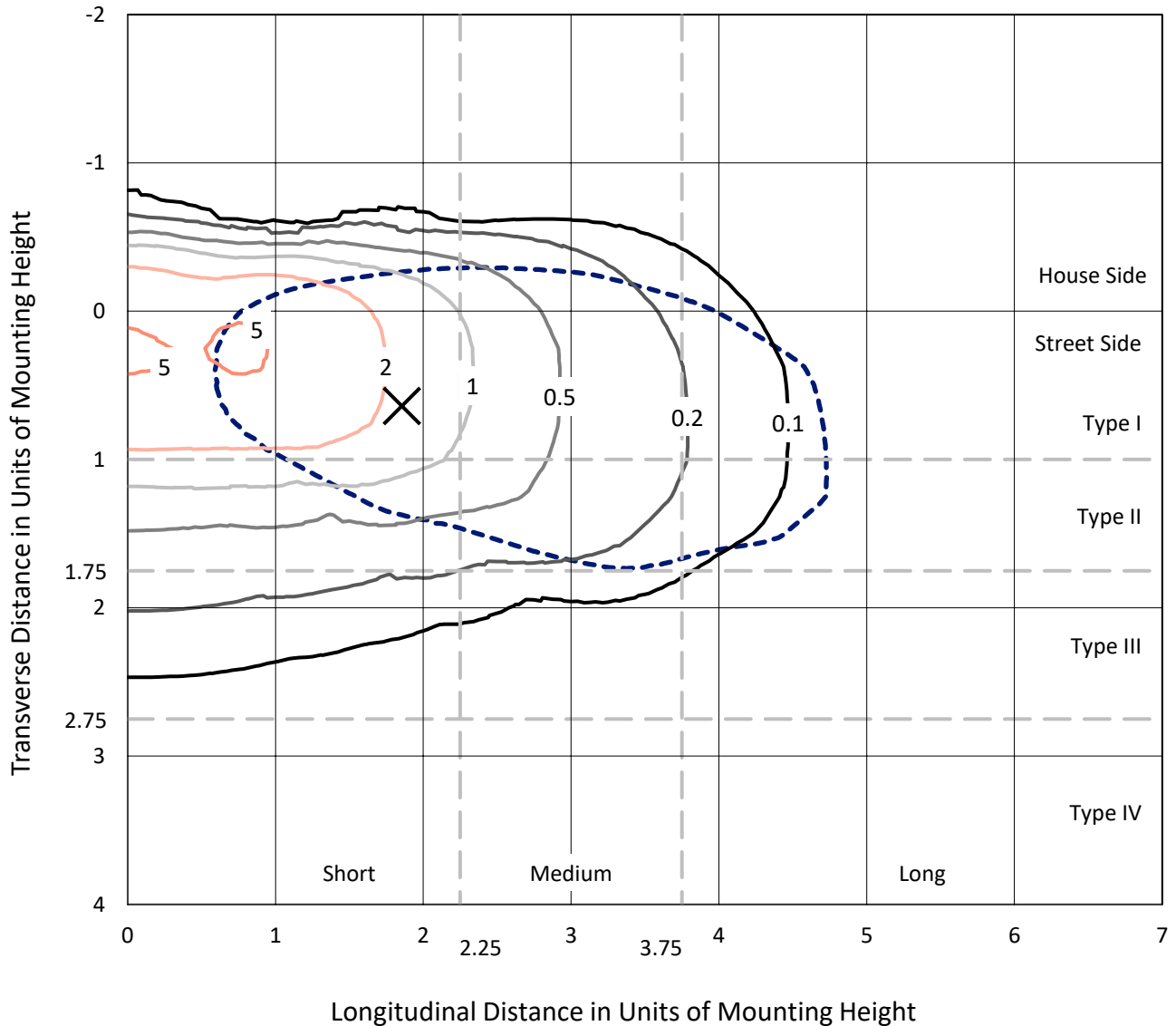
Input Watts (W): 131  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

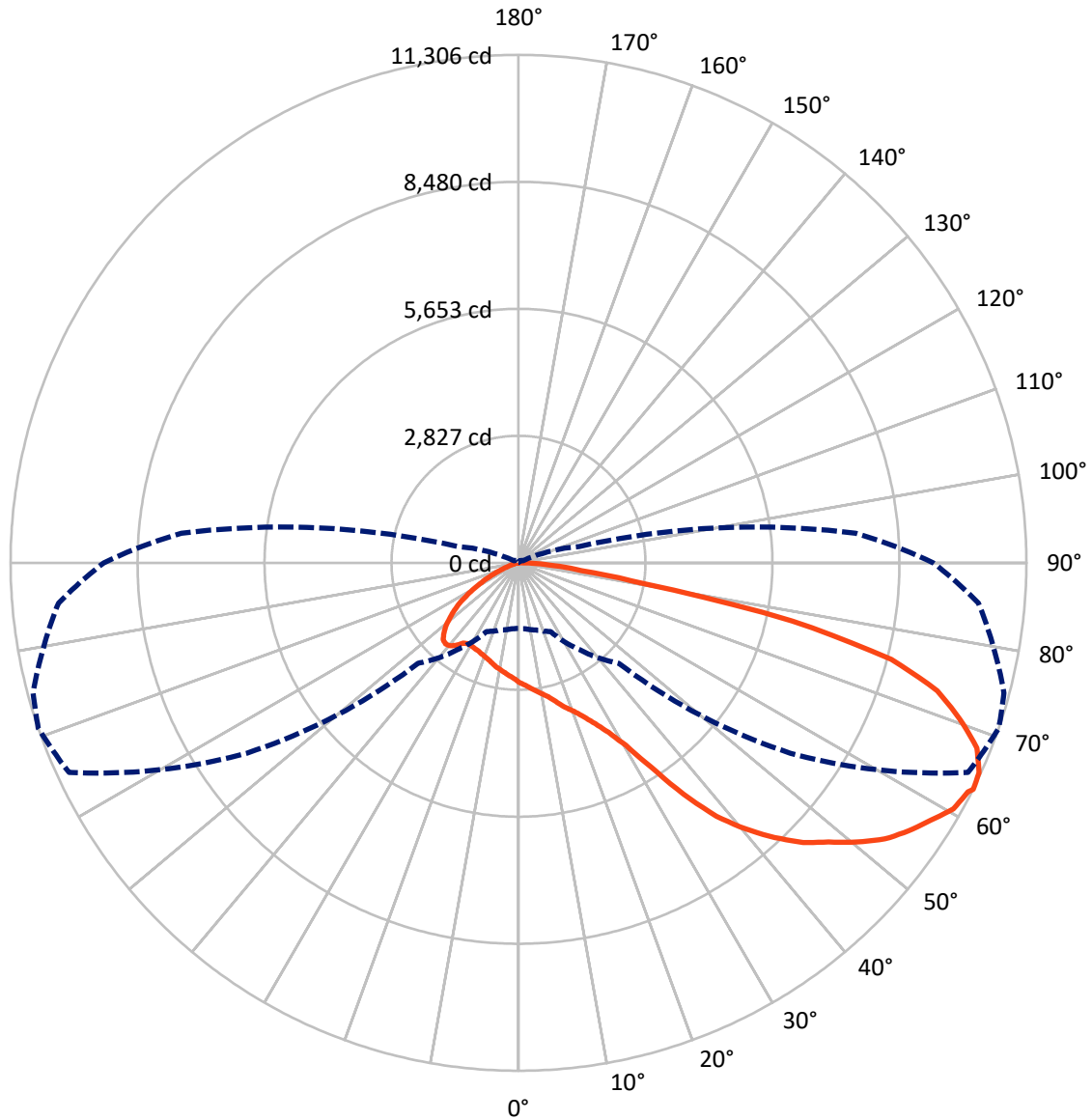
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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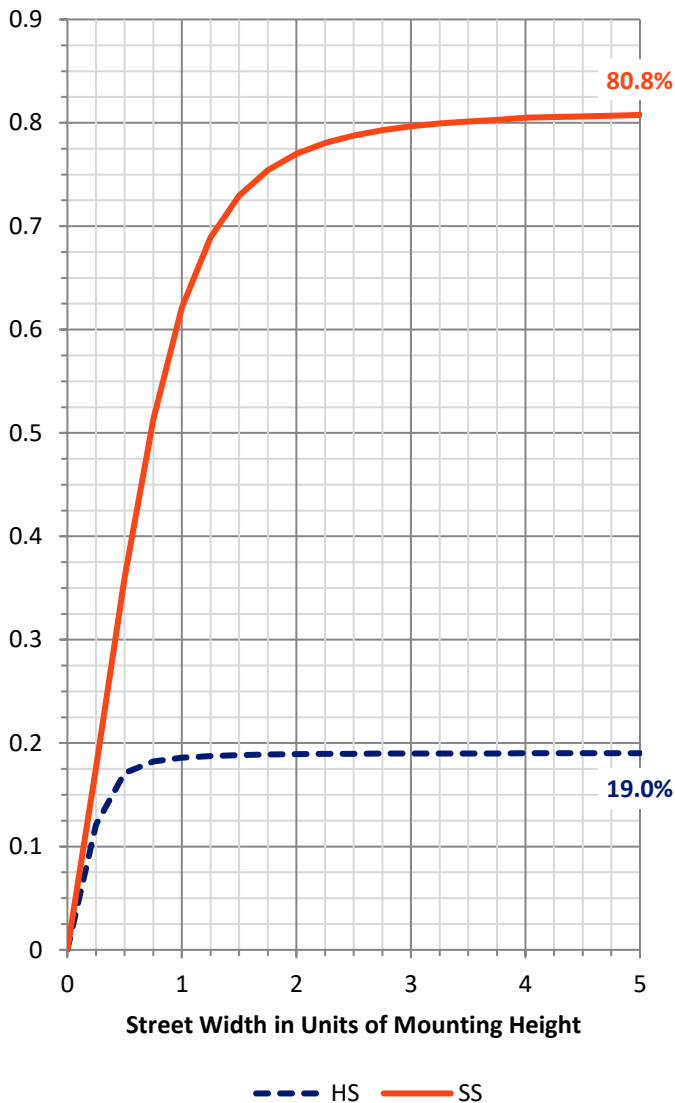
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2984.5	0.0	2984.5
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	12522.5	0.0	12522.5
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	15507.0	0.0	15507.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.7	1.6
10°-20°	762.3	4.9
20°-30°	1282.1	8.3
30°-40°	1959.4	12.6
40°-50°	2729.5	17.6
50°-60°	3161.2	20.4
60°-70°	3130.7	20.2
70°-80°	1940.7	12.5
80°-90°	287.4	1.9
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°	15507.0	100.0
0°-180°	15507.0	100.0

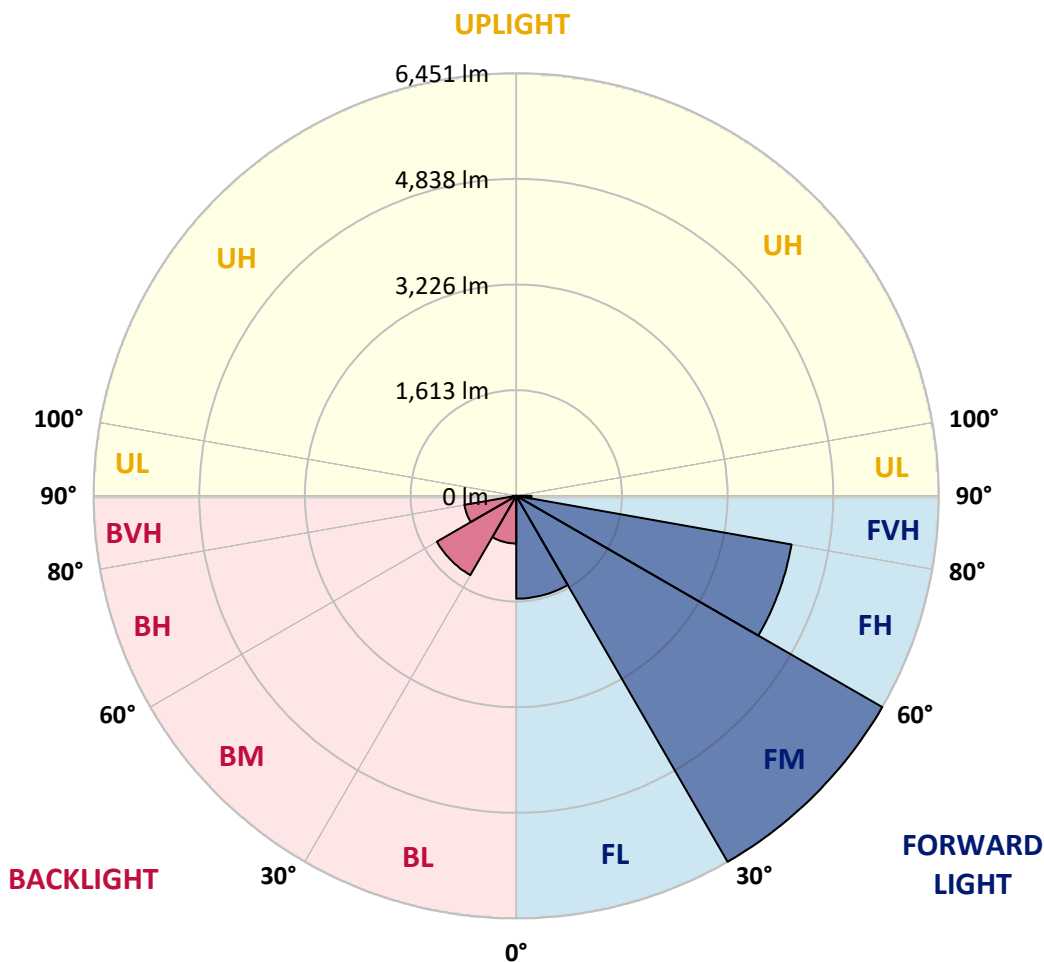


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1570.3	10.1			
FM (30°-60°)	6451.1	41.6			
FH (60°-80°)	4268.3	27.5			G2/5000
FVH (80°-90°)	232.8	1.5			G3/500
BL (0°-30°)	727.8	4.7	B2/1000		
BM (30°-60°)	1399.0	9.0	B2/2500		
BH (60°-80°)	803.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	54.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2
2.5°	2935.1	2907.2	2906.3	2871.0	2844.6	2829.8	2789.5	2754.1	2723.7	2720.4	2666.1
5°	3094.8	3088.2	3079.1	3024.0	2999.3	2966.4	2922.0	2853.7	2798.6	2784.6	2698.2
7.5°	3275.0	3270.1	3251.9	3202.6	3140.0	3101.4	3015.0	2946.7	2888.2	2858.6	2741.8
10°	3378.7	3377.8	3376.2	3335.1	3286.5	3229.7	3137.6	3037.2	2969.7	2938.4	2769.8
12.5°	3543.2	3521.0	3513.6	3463.4	3401.7	3360.6	3275.8	3168.0	3076.7	3021.5	2833.1
15°	3675.7	3676.5	3662.6	3617.3	3571.2	3505.4	3433.8	3326.0	3225.6	3183.7	2941.7
17.5°	3840.3	3825.5	3809.0	3761.3	3712.8	3643.6	3599.2	3468.4	3386.1	3293.9	3037.2
20°	3944.8	3919.3	3901.2	3870.7	3851.0	3795.9	3755.5	3639.5	3526.8	3447.8	3144.2
22.5°	4017.2	4043.5	4036.1	3986.8	3994.2	3977.7	3926.7	3848.5	3721.8	3591.8	3267.6
25°	4061.6	4055.9	4098.7	4130.8	4186.7	4183.4	4145.6	4077.3	3964.5	3824.7	3451.9
27.5°	4074.8	4074.8	4143.9	4234.4	4366.1	4394.9	4399.8	4395.7	4270.7	4143.9	3693.8
30°	4094.6	4116.8	4183.4	4296.2	4487.1	4601.4	4655.8	4747.1	4715.8	4605.6	4088.8
32.5°	4016.4	4018.9	4116.0	4333.2	4611.3	4849.1	4956.1	5279.5	5416.9	5467.9	4889.4
35°	3764.6	3790.1	3967.0	4266.5	4668.9	5062.2	5352.7	6020.9	6323.7	6330.3	5655.5
37.5°	3590.1	3614.8	3804.9	4170.3	4714.2	5277.0	5806.1	6853.6	7159.7	7084.0	6316.3
40°	3399.2	3440.4	3642.0	4040.3	4707.6	5487.7	6290.8	7590.9	7795.0	7695.4	6856.9
42.5°	3213.3	3219.9	3418.2	3860.0	4673.9	5658.8	6764.7	8135.6	8361.1	8232.7	7386.8
45°	2987.8	3017.4	3213.3	3620.6	4561.9	5764.1	7181.9	8733.0	8882.8	8739.6	7829.5
47.5°	2727.8	2765.6	3017.4	3399.2	4313.4	5779.8	7557.2	9270.4	9285.2	9171.6	8295.3
50°	2106.5	2130.4	2648.0	3181.2	4016.4	5717.2	7915.1	9672.7	9769.0	9620.9	8692.7
52.5°	1907.4	1927.1	2072.0	2897.3	3618.9	5508.2	8165.3	10135.2	10213.4	10083.3	9081.1
55°	1828.4	1837.5	1888.5	2348.4	3285.7	5137.1	8323.2	10480.8	10536.7	10375.5	9402.8
57.5°	1690.2	1698.4	1807.0	2002.8	3005.9	4523.3	8303.5	10821.5	10817.3	10637.1	9736.1
60°	1585.7	1602.9	1695.1	1841.6	2668.5	3784.3	8032.8	11082.3	11122.6	10957.2	9978.8
62.5°	1486.9	1493.5	1571.7	1713.2	2394.5	3245.4	7523.4	11058.4	11228.8	11106.2	10284.1
63°	1458.9	1471.3	1548.6	1686.0	2355.0	3160.6	7386.0	11039.5	11306.1	11186.0	10276.7
65°	1372.5	1374.2	1449.9	1579.9	2166.6	2896.5	6929.3	10789.4	11265.8	11193.4	10404.3
67.5°	1208.0	1220.3	1287.8	1414.5	1852.3	2560.7	5749.3	10623.1	11004.1	11042.0	10196.1
70°	1025.3	1032.7	1115.8	1240.1	1556.9	2172.4	4300.3	10043.9	10424.8	10471.7	9648.9
72.5°	803.9	808.1	898.6	1043.4	1273.8	1793.8	2967.2	9034.2	9749.3	9749.3	8713.3
75°	252.6	298.7	629.5	841.0	1029.4	1388.2	1949.4	7009.1	8569.3	8782.4	7460.1
77.5°	82.3	88.9	199.1	443.5	648.4	1065.6	1294.4	3725.9	6224.9	6810.8	5884.3
80°	59.2	69.1	123.4	332.4	408.1	453.4	802.3	2030.8	2829.0	3707.8	3930.0
82.5°	30.4	39.5	87.2	211.5	232.0	228.8	356.3	960.3	1412.9	1706.6	2039.1
85°	14.0	17.3	37.9	74.1	64.2	60.1	125.9	502.8	796.5	941.4	1017.1
87.5°	3.3	4.9	14.0	26.3	16.5	13.2	14.8	159.6	290.5	362.1	374.4
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°	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2	2665.2
2.5°	2643.0	2656.2	2593.7	2563.2	2511.4	2494.9	2469.4	2439.0	2429.1	2453.8	2437.3
5°	2666.1	2648.0	2557.5	2475.2	2406.0	2351.7	2310.6	2258.8	2227.5	2234.9	2239.8
7.5°	2675.1	2634.8	2506.4	2405.2	2288.4	2218.4	2143.6	2070.3	2039.1	2044.0	2047.3
10°	2684.2	2623.3	2471.9	2322.9	2183.9	2076.1	1990.5	1893.4	1846.5	1848.1	1863.8
12.5°	2737.7	2619.2	2443.1	2262.9	2082.7	1948.5	1844.0	1736.2	1669.6	1674.5	1686.9
15°	2813.4	2654.6	2406.0	2174.0	1984.7	1832.5	1702.5	1583.2	1532.2	1539.6	1551.1
17.5°	2878.4	2694.0	2377.2	2080.2	1866.3	1702.5	1584.8	1482.8	1389.8	1403.8	1395.6
20°	2944.2	2750.0	2368.2	2001.2	1764.2	1575.8	1442.5	1360.2	1245.0	1213.7	1203.8
22.5°	3049.5	2812.5	2360.0	1928.8	1643.3	1464.7	1298.5	1177.5	1012.1	955.3	933.1
25°	3187.8	2902.2	2347.6	1863.8	1542.9	1332.2	1106.7	889.5	766.9	694.5	660.8
27.5°	3374.6	3030.6	2365.7	1806.2	1441.7	1175.0	840.1	645.9	536.5	474.0	438.6
30°	3687.2	3198.5	2369.8	1754.3	1318.2	937.2	598.2	449.3	356.3	313.5	292.1
32.5°	4374.3	3707.8	2406.9	1695.1	1185.7	689.6	416.4	301.2	227.1	200.0	212.3
35°	5096.8	4333.2	2540.2	1611.2	978.4	466.6	274.8	195.0	145.6	149.8	153.9
37.5°	5644.8	4818.7	2819.9	1508.3	735.6	319.3	165.4	133.3	128.4	139.9	161.3
40°	6183.8	5301.7	3069.3	1384.1	498.7	191.7	111.9	122.6	115.2	120.1	121.8
42.5°	6656.1	5686.8	3247.8	1200.6	308.6	112.7	97.9	113.6	105.3	102.9	90.5
45°	7112.8	6020.1	3358.1	947.1	176.9	89.7	89.7	108.6	102.0	96.3	82.3
47.5°	7516.8	6392.8	3330.9	654.2	107.8	80.6	83.9	97.9	95.5	88.0	80.6
50°	7888.8	6662.7	3260.2	371.1	94.6	76.5	81.5	81.5	85.6	66.7	60.9
52.5°	8213.0	6902.2	3032.2	198.3	88.0	73.2	73.2	65.0	69.1	51.0	48.5
55°	8546.2	7153.1	2711.3	155.5	83.9	73.2	65.0	56.8	51.8	37.0	39.5
57.5°	8820.3	7338.3	2295.8	139.9	86.4	69.9	59.2	49.4	41.1	28.8	28.0
60°	9073.7	7491.3	1892.6	124.3	93.0	70.8	49.4	41.1	28.8	23.0	20.6
62.5°	9226.7	7525.9	1468.0	112.7	93.0	65.0	44.4	34.6	22.2	15.6	14.8
63°	9231.7	7536.6	1401.3	111.9	94.6	65.0	44.4	33.7	20.6	14.8	14.0
65°	9304.1	7313.6	1105.9	109.4	96.3	61.7	42.0	27.2	17.3	11.5	10.7
67.5°	9027.6	6884.1	727.4	107.8	96.3	60.1	37.0	23.0	14.8	9.1	7.4
70°	8296.9	6149.2	445.2	103.7	97.9	59.2	46.1	19.7	13.2	6.6	5.8
72.5°	7289.7	5431.7	255.9	92.2	96.3	48.5	26.3	17.3	11.5	4.9	4.1
75°	6170.6	4366.1	161.3	71.6	74.9	40.3	22.2	15.6	9.9	2.5	2.5
77.5°	4688.7	3141.7	138.2	55.1	44.4	35.4	18.9	12.3	6.6	0.8	0.8
80°	3311.2	2220.1	99.6	34.6	24.7	22.2	14.0	8.2	2.5	0.0	0.0
82.5°	1863.8	1212.9	54.3	12.3	7.4	8.2	6.6	3.3	0.0	0.0	0.0
85°	878.8	474.0	27.2	8.2	4.1	3.3	0.8	0.0	0.0	0.0	0.0
87.5°	326.7	114.4	6.6	3.3	2.5	0.8	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)