

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: STREETWORKS

Report Number: P691669

Luminaire Tested: **CRTK2-C018-D-U-T2-7040-U0-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C018-D-U-T2-7040-U0-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE II OPTIC AND U0 SHIELD WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6062 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 50.4
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



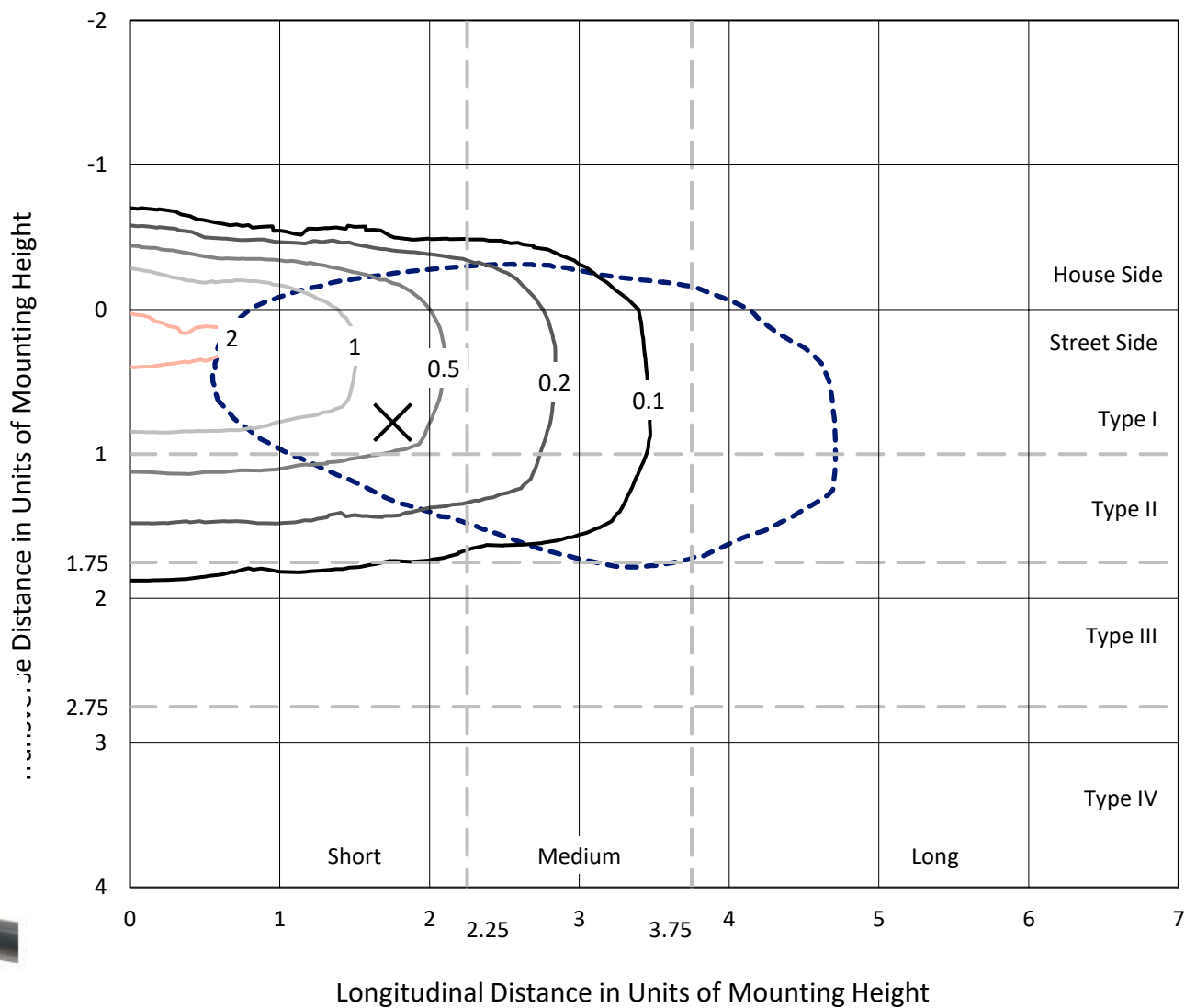
REPORT NUMBER: P691669

CATALOG NUMBER: CRTK2-C018-D-U-T2-7040-U0-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

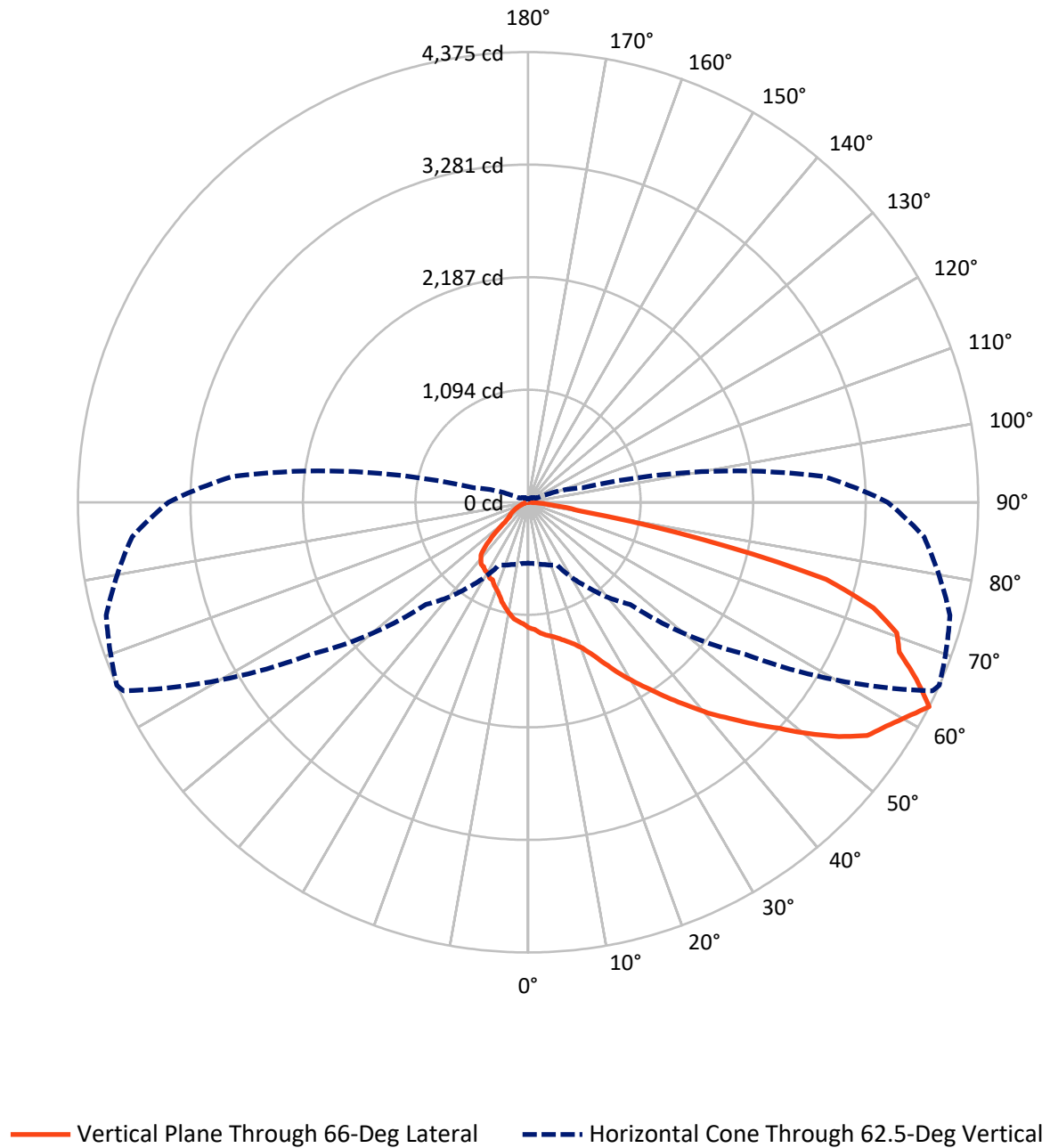


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

REPORT NUMBER: P691669

CATALOG NUMBER: CRTK2-C018-D-U-T2-7040-U0-HSS-CRTK2

Luminous Intensity Polar Plot



REPORT NUMBER: P691669

CATALOG NUMBER: CRTK2-C018-D-U-T2-7040-U0-HSS-CRTK2

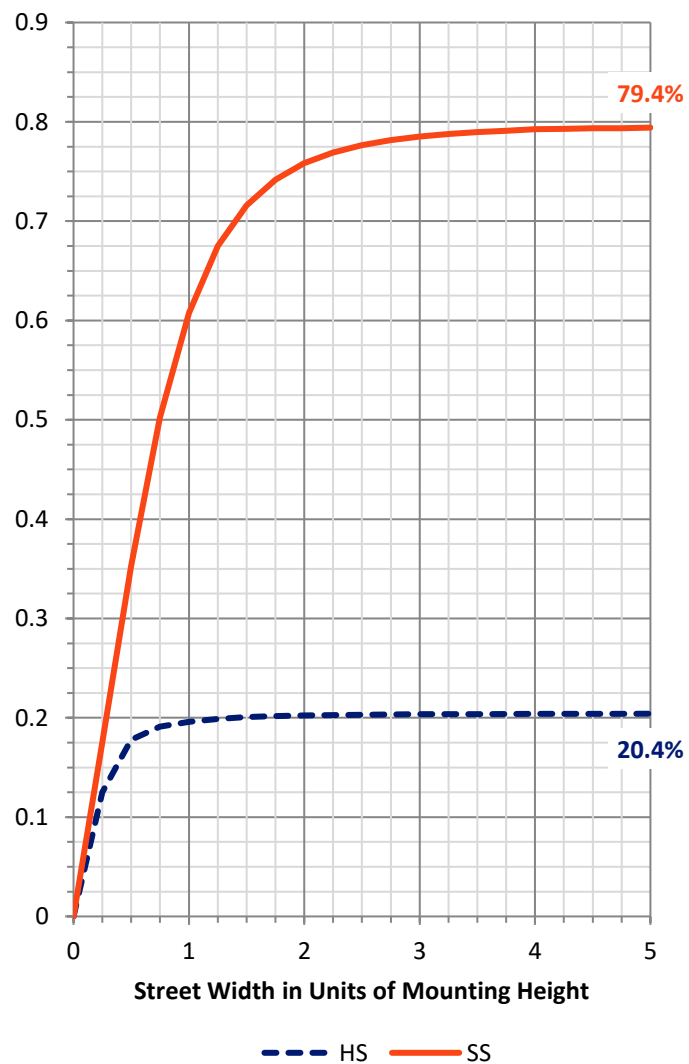
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1252.3	0.0	1252.3
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	4809.7	0.0	4809.7
	% Fixture	79.3	0.0	79.3
Total	Lumens	6062.0	0.0	6062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	1.9
10°-20°	328.1	5.4
20°-30°	538.3	8.9
30°-40°	792.1	13.1
40°-50°	1044.7	17.2
50°-60°	1216.1	20.1
60°-70°	1208.4	19.9
70°-80°	747.5	12.3
80°-90°	71.5	1.2
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°	6062.0	100.0
0°-180°	6062.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691669

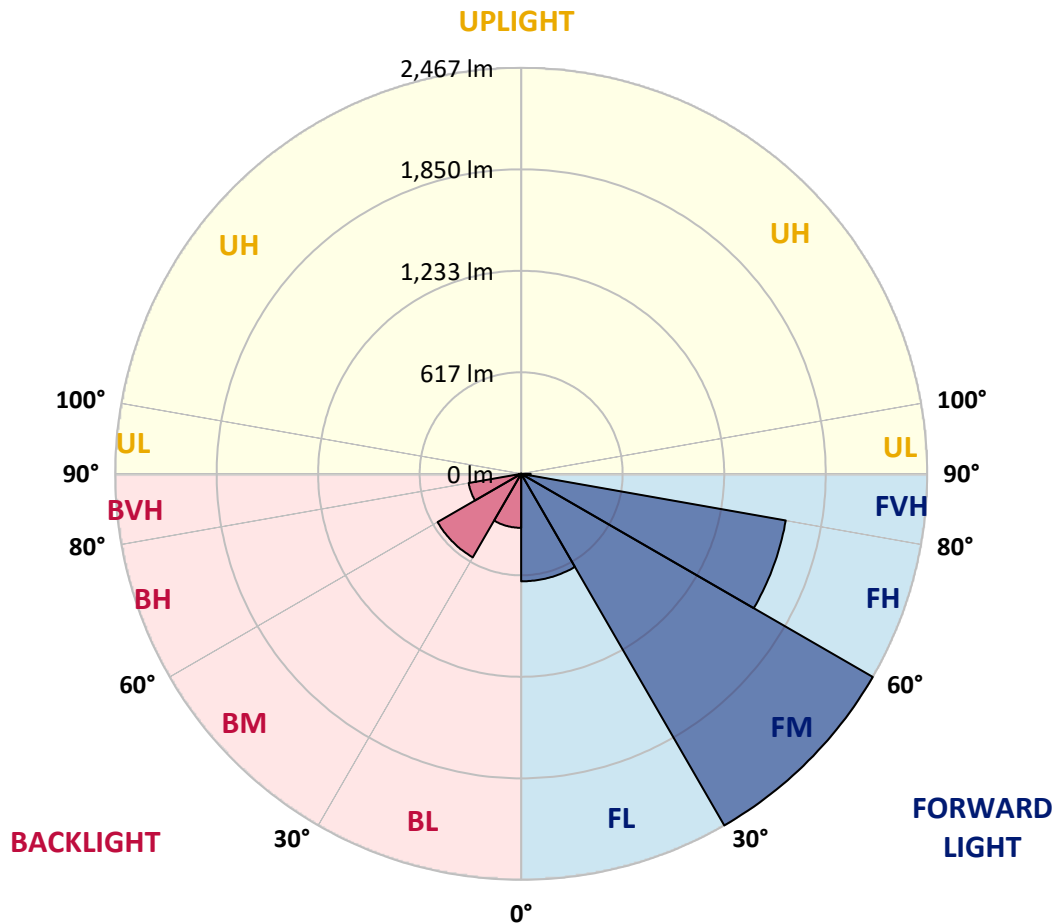
CATALOG NUMBER: CRTK2-C018-D-U-T2-7040-U0-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	653.2	10.8			
FM	(30°-60°)	2466.6	40.7			
FH	(60°-80°)	1632.3	26.9			G1/1800
FVH	(80°-90°)	57.7	1.0			G1/100
BL	(0°-30°)	328.4	5.4	B1/500		
BM	(30°-60°)	586.4	9.7	B1/1000		
BH	(60°-80°)	323.7	5.3	B1/500		G1/500
BVH	(80°-90°)	13.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



REPORT NUMBER: P691669

CATALOG NUMBER: CRTK2-C018-D-U-T2-7040-U0-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1219.9	1219.9	1219.9	1219.9	1219.9	1219.9	1219.9	1219.9	1219.9	1219.9	1219.9
2.5°	1288.4	1288.4	1286.1	1270.1	1263.3	1254.2	1247.3	1240.4	1238.2	1231.3	1219.9
5°	1363.8	1361.5	1361.5	1347.8	1334.1	1315.8	1297.6	1279.3	1277.0	1258.7	1233.6
7.5°	1407.2	1407.2	1402.6	1393.5	1384.4	1372.9	1345.5	1306.7	1304.4	1279.3	1245.0
10°	1418.6	1420.9	1430.1	1407.2	1400.4	1388.9	1375.2	1334.1	1327.3	1290.7	1235.9
12.5°	1459.8	1459.8	1457.5	1436.9	1430.1	1420.9	1398.1	1366.1	1359.2	1313.5	1238.2
15°	1510.0	1512.3	1505.4	1487.2	1478.0	1466.6	1436.9	1402.6	1400.4	1341.0	1256.4
17.5°	1535.1	1535.1	1539.7	1514.6	1516.9	1512.3	1498.6	1450.6	1448.3	1393.5	1288.4
20°	1544.3	1546.6	1548.8	1548.8	1551.1	1546.6	1560.3	1519.1	1512.3	1450.6	1331.8
22.5°	1585.4	1590.0	1601.4	1594.5	1606.0	1612.8	1617.4	1619.7	1610.5	1546.6	1404.9
25°	1603.7	1615.1	1631.1	1656.2	1674.5	1688.2	1722.5	1738.5	1736.2	1681.3	1526.0
27.5°	1576.3	1590.0	1644.8	1688.2	1752.2	1788.7	1852.7	1873.2	1880.1	1829.8	1656.2
30°	1612.8	1617.4	1642.5	1697.3	1777.3	1886.9	1973.7	2019.4	2019.4	1980.6	1784.1
32.5°	1555.7	1569.4	1642.5	1743.0	1866.4	1985.2	2067.4	2165.6	2165.6	2147.4	1966.9
35°	1548.8	1555.7	1599.1	1711.0	1868.7	2085.7	2195.3	2311.8	2327.8	2330.1	2147.4
37.5°	1484.9	1498.6	1576.3	1720.2	1937.2	2147.4	2300.4	2480.9	2499.2	2524.3	2298.1
40°	1414.1	1418.6	1487.2	1637.9	1921.2	2227.3	2400.9	2670.5	2691.1	2725.3	2499.2
42.5°	1309.0	1327.3	1441.5	1606.0	1914.4	2252.4	2512.9	2848.7	2871.5	2919.5	2665.9
45°	1215.3	1222.2	1306.7	1489.4	1839.0	2289.0	2599.7	3058.9	3072.6	3102.3	2805.3
47.5°	1139.9	1144.5	1229.0	1386.6	1768.1	2279.9	2684.2	3248.5	3280.4	3326.1	2969.8
50°	913.8	938.9	1149.1	1302.1	1644.8	2263.9	2750.5	3486.0	3534.0	3552.3	3159.4
52.5°	779.0	783.6	893.2	1217.6	1516.9	2195.3	2814.4	3728.2	3783.0	3732.8	3387.8
55°	721.9	726.4	776.7	1048.6	1409.5	2062.8	2862.4	3961.2	4000.0	3876.7	3559.1
57.5°	685.3	694.5	717.3	852.1	1281.6	1841.3	2871.5	4089.1	4105.1	3990.9	3646.0
60°	635.1	635.1	680.8	744.7	1142.2	1603.7	2796.1	4153.1	4230.8	4121.1	3805.9
62.5°	591.7	596.2	625.9	673.9	1005.1	1402.6	2574.6	4335.8	4374.7	4244.5	3863.0
65°	541.4	546.0	573.4	621.4	913.8	1290.7	2455.8	4262.7	4148.5	4212.5	3933.8
67.5°	484.3	486.6	514.0	557.4	767.6	1190.2	2170.2	3984.0	3890.4	4061.7	3737.3
70°	427.2	427.2	450.0	484.3	625.9	1044.0	1793.3	3730.5	3801.3	3810.4	3543.2
72.5°	356.4	358.7	381.5	411.2	502.6	872.7	1418.6	3476.9	3508.9	3387.8	3116.0
75°	255.9	265.0	290.1	319.8	397.5	692.2	1007.4	2825.8	2992.6	3207.3	2677.4
77.5°	38.8	38.8	48.0	73.1	130.2	347.2	466.0	1560.3	1731.6	2684.2	2339.3
80°	32.0	32.0	34.3	48.0	75.4	194.2	150.8	488.9	525.4	1233.6	1318.1
82.5°	16.0	16.0	25.1	34.3	45.7	57.1	64.0	235.3	271.8	420.3	525.4
85°	9.1	9.1	11.4	16.0	18.3	18.3	20.6	111.9	116.5	228.4	237.6
87.5°	2.3	2.3	4.6	4.6	4.6	2.3	2.3	2.3	2.3	2.3	2.3
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: P691669

CATALOG NUMBER: CRTK2-C018-D-U-T2-7040-U0-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1219.9	1219.9	1219.9	1219.9	1219.9	1219.9	1219.9	1219.9	1219.9	1219.9	1219.9
2.5°	1215.3	1208.5	1194.8	1183.3	1176.5	1162.8	1151.4	1142.2	1137.6	1149.1	1151.4
5°	1217.6	1201.6	1176.5	1160.5	1142.2	1119.4	1092.0	1076.0	1069.1	1071.4	1078.3
7.5°	1222.2	1199.3	1169.6	1135.4	1087.4	1041.7	1009.7	991.4	982.3	993.7	993.7
10°	1208.5	1183.3	1142.2	1089.7	1028.0	982.3	945.8	913.8	902.3	906.9	909.2
12.5°	1208.5	1174.2	1105.7	1041.7	984.6	909.2	854.4	824.7	813.3	815.5	820.1
15°	1215.3	1169.6	1073.7	996.0	911.5	831.5	783.6	747.0	735.6	724.2	728.7
17.5°	1238.2	1162.8	1057.7	934.3	840.7	765.3	699.0	657.9	648.8	648.8	651.1
20°	1261.0	1171.9	1030.3	888.6	776.7	683.0	614.5	584.8	564.3	555.1	564.3
22.5°	1309.0	1203.9	1012.0	858.9	710.5	621.4	557.4	491.2	454.6	438.6	443.2
25°	1395.8	1261.0	1025.7	806.4	673.9	564.3	475.2	395.2	344.9	329.0	333.5
27.5°	1530.6	1354.7	1041.7	801.8	607.7	507.1	386.1	299.3	260.4	244.4	249.0
30°	1663.1	1482.6	1094.2	756.1	582.5	415.8	292.4	230.7	191.9	175.9	180.5
32.5°	1777.3	1606.0	1160.5	744.7	516.3	313.0	219.3	171.3	141.6	127.9	130.2
35°	1946.3	1711.0	1217.6	710.5	438.6	235.3	159.9	123.4	107.4	102.8	102.8
37.5°	2097.1	1834.4	1272.4	699.0	329.0	175.9	114.2	100.5	98.2	91.4	91.4
40°	2254.7	1964.6	1297.6	657.9	239.9	123.4	93.7	93.7	91.4	84.5	84.5
42.5°	2439.8	2097.1	1320.4	609.9	171.3	93.7	86.8	89.1	86.8	80.0	77.7
45°	2572.3	2179.3	1327.3	488.9	118.8	89.1	82.2	84.5	82.2	77.7	75.4
47.5°	2693.3	2298.1	1297.6	342.7	95.9	84.5	80.0	80.0	80.0	73.1	70.8
50°	2819.0	2396.4	1272.4	185.0	93.7	82.2	75.4	73.1	75.4	70.8	68.5
52.5°	2985.8	2471.8	1206.2	125.6	91.4	80.0	73.1	68.5	70.8	66.2	68.5
55°	3207.3	2670.5	1085.1	118.8	91.4	77.7	70.8	64.0	64.0	61.7	61.7
57.5°	3307.9	2745.9	890.9	114.2	89.1	77.7	66.2	59.4	54.8	52.5	50.3
60°	3431.2	2855.5	687.6	105.1	82.2	73.1	59.4	52.5	45.7	43.4	43.4
62.5°	3495.2	2880.7	543.7	93.7	75.4	64.0	52.5	43.4	36.6	32.0	32.0
65°	3531.7	2867.0	379.2	84.5	66.2	57.1	45.7	36.6	27.4	25.1	22.8
67.5°	3408.4	2784.7	221.6	73.1	57.1	50.3	38.8	29.7	22.8	20.6	18.3
70°	3161.7	2533.4	139.4	64.0	50.3	43.4	34.3	25.1	18.3	16.0	16.0
72.5°	2896.7	2042.3	95.9	50.3	38.8	34.3	25.1	20.6	16.0	11.4	11.4
75°	2606.5	1772.7	70.8	36.6	27.4	25.1	20.6	16.0	13.7	9.1	9.1
77.5°	1848.1	1174.2	57.1	27.4	18.3	16.0	13.7	11.4	9.1	9.1	6.9
80°	1092.0	573.4	43.4	18.3	13.7	11.4	9.1	9.1	6.9	6.9	6.9
82.5°	408.9	219.3	29.7	13.7	9.1	9.1	6.9	6.9	4.6	4.6	4.6
85°	148.5	54.8	13.7	6.9	6.9	4.6	4.6	4.6	4.6	4.6	4.6
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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)