

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: P198569

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-SL4-7030-1200-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9539 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 128
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: 28.75 FT

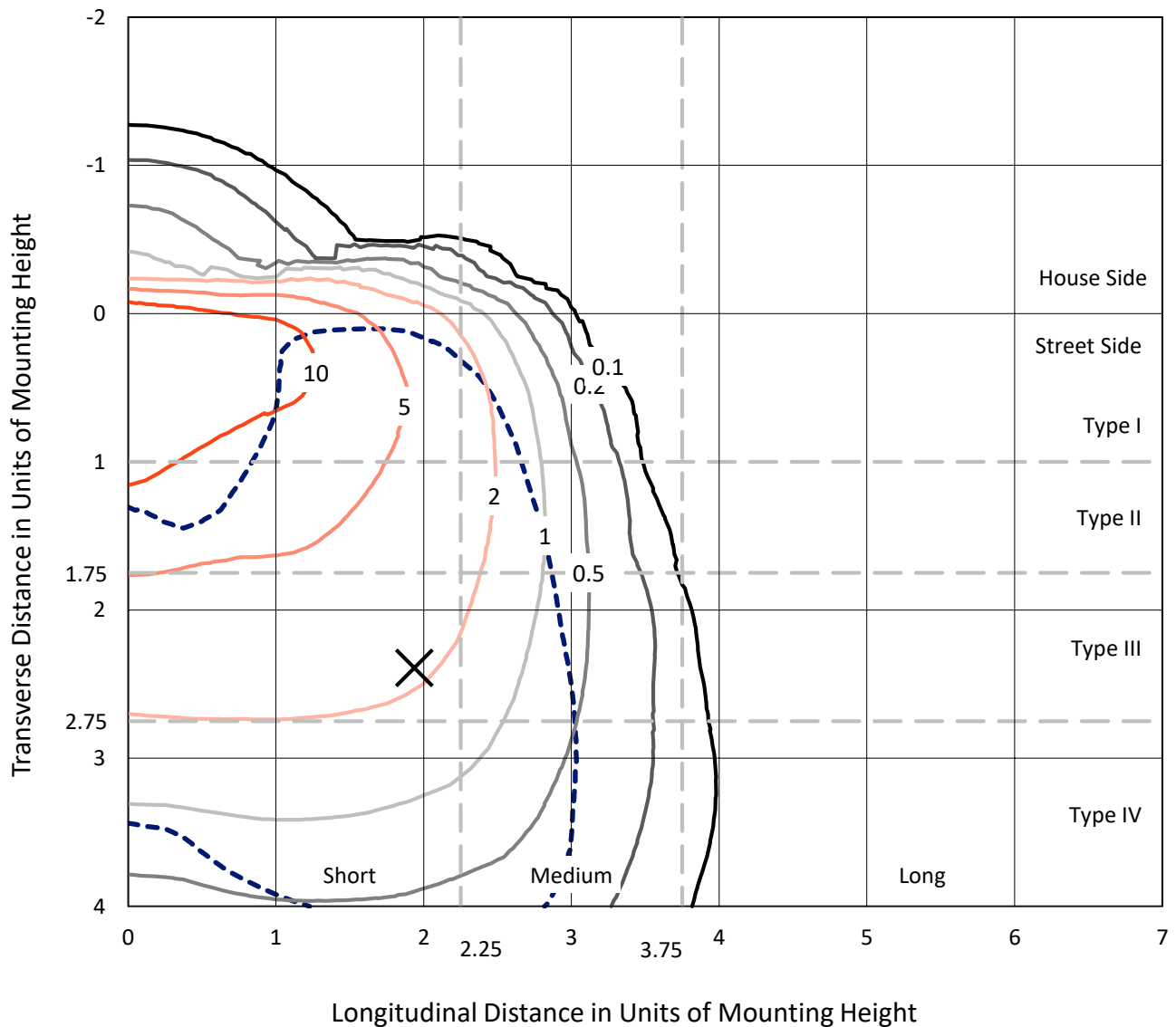


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

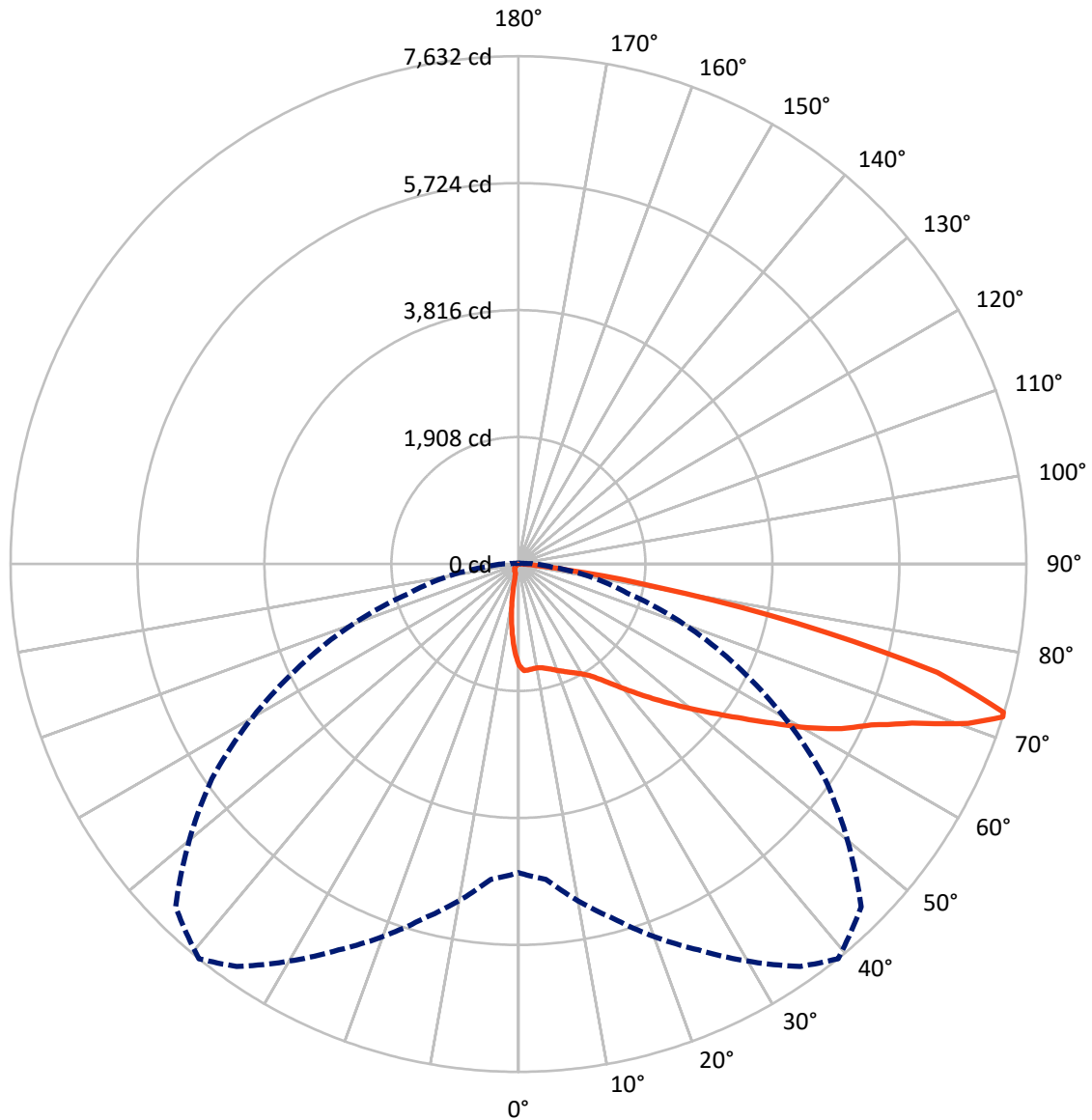


Based on 10 foot mounting height. Maximum calculated value = 16 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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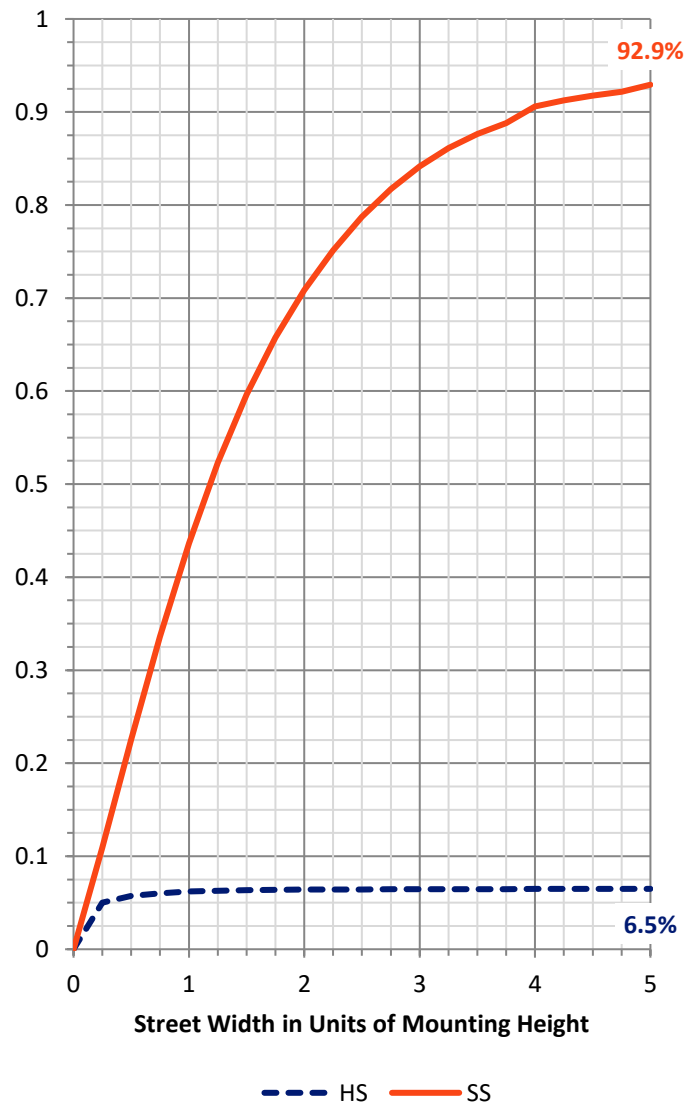
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	625.1	0.0	625.1
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	8913.8	0.0	8913.8
	% Fixture	93.4	0.0	93.4
Total	Lumens	9539.0	0.0	9539.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	1.3
10°-20°	300.7	3.2
20°-30°	499.3	5.2
30°-40°	795.8	8.3
40°-50°	1313.6	13.8
50°-60°	1983.8	20.8
60°-70°	2584.2	27.1
70°-80°	1746.2	18.3
80°-90°	191.2	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°	9539.0	100.0
0°-180°	9539.0	100.0



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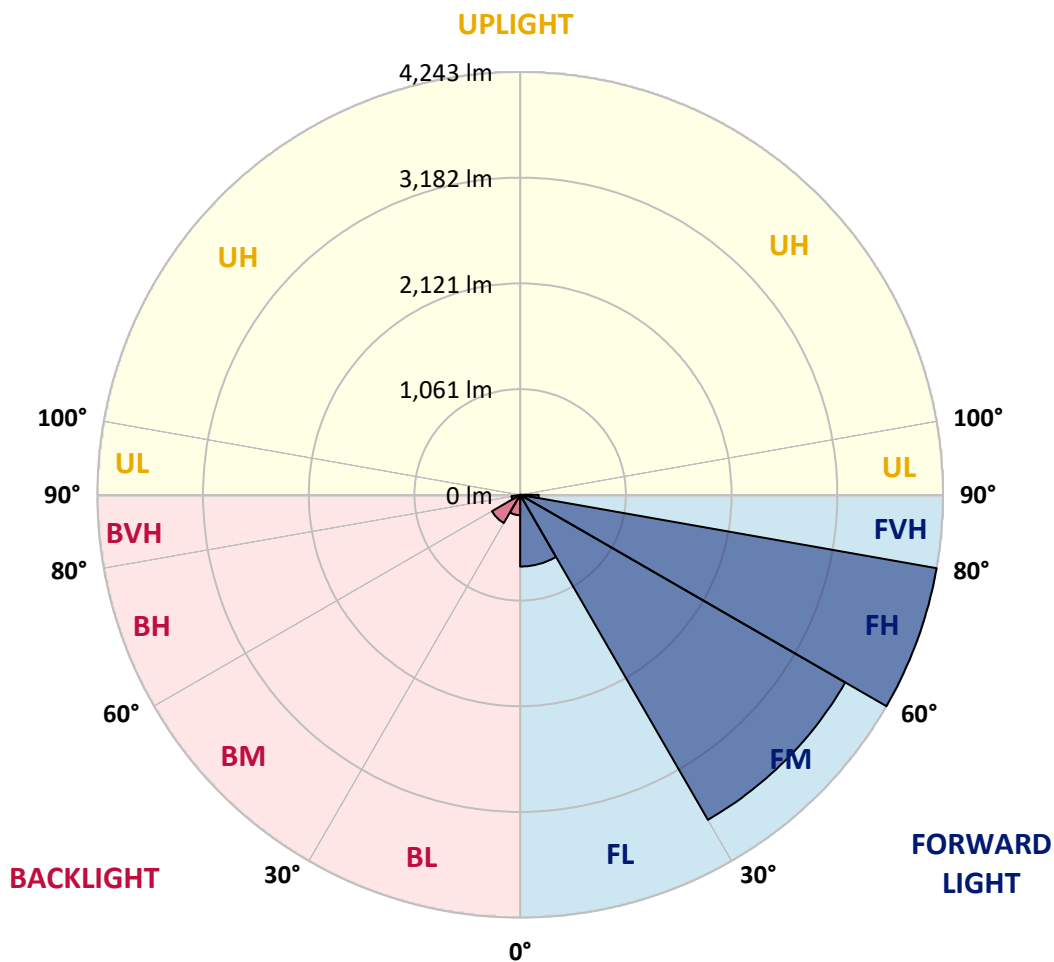
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.5	7.5			
FM (30°-60°)	3766.1	39.5			
FH (60°-80°)	4242.5	44.5			G2/5000
FVH (80°-90°)	185.7	1.9			G2/225
BL (0°-30°)	204.7	2.1	B1/500		
BM (30°-60°)	327.1	3.4	B1/1000		
BH (60°-80°)	87.9	0.9	B0/110		G0/110
BVH (80°-90°)	5.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8
2.5°	1625.8	1628.8	1625.0	1618.3	1608.5	1602.5	1594.3	1576.3	1553.8	1534.3	1511.8
5°	1638.5	1640.0	1635.5	1622.8	1607.8	1599.5	1589.0	1569.5	1546.3	1519.3	1478.8
7.5°	1642.3	1641.5	1636.3	1620.5	1597.3	1586.8	1568.8	1544.8	1520.8	1496.0	1450.3
10°	1640.8	1640.8	1637.0	1622.0	1595.8	1586.0	1565.8	1540.3	1510.3	1485.5	1436.8
12.5°	1635.5	1638.5	1636.3	1628.0	1608.5	1601.0	1583.0	1557.5	1529.0	1503.5	1451.8
15°	1642.3	1646.8	1651.3	1648.3	1637.0	1630.3	1613.8	1587.5	1564.3	1537.3	1481.8
17.5°	1669.3	1679.0	1689.5	1690.3	1678.3	1666.3	1647.5	1620.5	1598.0	1573.3	1513.3
20°	1720.3	1727.7	1747.2	1751.0	1727.0	1709.8	1683.5	1652.0	1629.5	1608.5	1542.5
22.5°	1796.0	1804.2	1820.0	1814.7	1774.2	1754.0	1721.0	1685.0	1661.8	1649.8	1576.3
25°	1910.7	1913.0	1916.7	1893.5	1826.7	1804.2	1763.7	1723.3	1704.5	1703.0	1624.3
27.5°	2045.7	2048.7	2032.2	1980.5	1885.2	1856.0	1810.2	1773.5	1764.5	1775.7	1685.0
30°	2200.2	2200.9	2155.2	2071.2	1952.7	1920.5	1873.2	1832.7	1841.0	1868.7	1763.0
32.5°	2358.4	2350.9	2287.9	2178.4	2045.0	2006.0	1965.5	1925.0	1949.0	2005.2	1877.0
35°	2503.1	2500.1	2425.9	2298.4	2164.9	2130.4	2101.2	2058.5	2097.4	2188.9	2032.2
37.5°	2647.9	2645.6	2560.9	2428.1	2312.7	2287.9	2266.2	2233.2	2296.9	2431.1	2239.9
40°	2807.6	2803.8	2699.6	2572.1	2484.4	2470.9	2458.1	2443.9	2552.6	2739.4	2498.6
42.5°	3004.8	2988.3	2846.6	2728.9	2673.4	2677.1	2677.9	2692.1	2862.3	3106.0	2803.8
45°	3231.3	3194.5	2994.3	2896.8	2881.1	2903.6	2926.1	2985.3	3223.0	3528.2	3141.3
47.5°	3451.0	3391.8	3164.5	3077.6	3109.8	3156.3	3210.3	3325.8	3628.0	3969.9	3447.3
50°	3640.0	3579.2	3333.3	3261.3	3364.0	3433.0	3529.0	3703.7	4055.4	4343.4	3640.0
52.5°	3788.5	3740.5	3511.7	3463.7	3646.0	3740.5	3891.2	4120.7	4458.9	4589.3	3775.0
55°	3897.9	3873.9	3682.7	3689.5	3959.4	4095.9	4283.4	4542.8	4799.3	4780.6	3876.2
57.5°	4021.7	4002.9	3861.9	3955.7	4336.6	4512.8	4729.6	4938.0	5046.8	4934.3	3975.2
60°	4148.4	4154.4	4079.4	4278.1	4803.1	4998.0	5187.0	5238.7	5259.0	5090.3	4079.4
62.5°	4244.4	4269.9	4276.6	4626.1	5281.5	5448.0	5529.7	5493.0	5488.5	5299.5	4071.2
65°	4354.6	4421.4	4532.3	5007.8	5716.4	5825.9	5884.4	5937.6	5825.2	5361.7	3670.7
67.5°	4545.1	4650.1	4899.8	5475.7	6218.8	6380.8	6546.6	6490.3	5875.4	4729.6	2796.3
70°	4801.6	4929.8	5370.7	6086.9	6900.5	7172.0	7310.7	6446.1	4988.3	3268.0	1475.0
72°	4639.6	4755.8	5516.2	6398.8	7383.4	7632.4	7285.2	5622.7	3616.0	1694.0	494.2
72.5°	4482.1	4602.1	5469.7	6395.1	7431.4	7621.9	7119.5	5298.0	3199.8	1318.3	340.5
75°	3109.8	3261.3	4689.1	5748.7	6710.8	6501.6	5447.2	3208.0	1159.3	226.5	112.5
77.5°	1607.8	1724.7	2844.3	4062.2	4677.1	4283.4	3219.3	1391.8	321.0	120.0	74.2
80°	996.6	1054.3	1330.3	2001.5	2429.6	2125.2	1420.3	562.4	205.5	71.2	59.2
82.5°	515.9	560.2	837.6	807.6	897.6	746.1	524.2	470.9	126.7	44.2	60.7
85°	169.5	180.0	514.4	536.9	383.9	258.0	232.5	449.2	36.7	28.5	51.7
87.5°	22.5	26.2	180.7	307.5	189.0	117.0	139.5	158.2	12.7	15.7	14.2
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°	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8
2.5°	1496.8	1487.0	1456.3	1425.5	1390.3	1358.1	1332.6	1316.1	1323.6	1298.8	1302.6
5°	1454.0	1429.3	1361.8	1289.1	1210.3	1136.8	1078.3	1034.8	1026.6	989.1	990.6
7.5°	1412.8	1372.3	1262.8	1142.8	1012.4	906.6	810.6	726.6	696.6	665.9	647.9
10°	1390.3	1334.8	1179.6	1004.9	821.1	665.9	530.9	425.2	380.9	348.7	333.0
12.5°	1397.0	1323.6	1117.3	879.6	638.2	440.9	300.0	222.7	195.7	180.7	175.5
15°	1419.5	1325.8	1061.1	757.4	464.2	267.0	176.2	150.7	148.5	147.7	147.0
17.5°	1440.5	1328.1	1001.9	629.9	310.5	170.2	141.7	139.5	139.5	139.5	139.5
20°	1462.3	1328.8	936.6	496.4	204.0	139.5	133.5	132.0	133.5	133.5	133.5
22.5°	1487.8	1334.1	873.6	366.7	150.7	131.2	127.5	126.7	127.5	127.5	126.7
25°	1519.3	1345.3	805.4	262.5	136.5	126.0	122.2	121.5	122.2	121.5	121.5
27.5°	1561.3	1360.3	725.9	188.2	130.5	120.7	117.0	117.0	117.0	116.2	116.2
30°	1615.3	1378.3	619.4	148.5	124.5	115.5	112.5	112.5	111.7	111.0	111.0
32.5°	1692.5	1407.5	503.2	134.2	117.7	108.7	105.7	106.5	105.7	105.0	104.2
35°	1802.0	1453.3	388.4	126.7	111.0	102.0	99.0	99.0	99.0	97.5	97.5
37.5°	1957.2	1523.0	291.0	119.2	104.2	95.2	91.5	91.5	90.7	89.2	90.0
40°	2149.2	1610.8	210.7	112.5	97.5	87.7	84.7	83.2	81.7	80.2	80.2
42.5°	2380.2	1696.3	158.2	105.7	90.7	81.7	78.0	76.5	73.5	72.0	71.2
45°	2638.9	1787.0	131.2	97.5	83.2	75.0	72.0	69.0	65.2	63.0	62.2
47.5°	2857.1	1842.5	117.0	89.2	75.7	68.2	65.2	60.7	56.2	54.7	54.7
50°	2988.3	1819.2	105.0	81.0	68.2	61.5	57.7	51.7	48.7	47.2	46.5
52.5°	3061.8	1750.2	95.2	74.2	61.5	54.0	48.7	43.5	42.0	40.5	40.5
55°	3112.0	1650.5	84.7	67.5	55.5	47.2	41.2	37.5	36.0	35.2	34.5
57.5°	3160.0	1529.0	75.0	61.5	49.5	42.0	35.2	33.7	30.7	30.0	30.0
60°	3174.3	1361.8	66.0	54.7	44.2	36.7	30.7	28.5	25.5	24.7	24.7
62.5°	2992.8	1083.6	58.5	46.5	39.0	31.5	27.0	24.0	21.0	21.0	21.0
65°	2500.9	735.6	50.2	40.5	34.5	27.0	23.2	19.5	18.0	18.0	18.0
67.5°	1742.0	410.2	42.7	34.5	29.2	22.5	19.5	16.5	15.7	16.5	16.5
70°	785.1	162.7	36.0	28.5	24.0	18.7	16.5	14.2	15.7	15.7	15.7
72°	235.5	87.0	30.0	23.2	19.5	16.5	14.2	13.5	15.0	15.7	15.7
72.5°	174.7	78.0	28.5	22.5	19.5	15.7	13.5	13.5	15.0	15.7	15.7
75°	90.0	53.2	21.7	16.5	14.2	12.7	11.2	12.7	15.0	15.0	15.0
77.5°	70.5	43.5	18.0	12.7	12.0	11.2	10.5	12.0	13.5	13.5	13.5
80°	66.0	28.5	14.2	12.0	10.5	9.7	9.7	10.5	12.0	12.7	12.7
82.5°	66.7	23.2	12.7	11.2	9.7	9.0	9.0	9.7	11.2	12.0	12.0
85°	42.7	15.7	11.2	9.7	9.0	8.2	8.2	9.0	10.5	11.2	11.2
87.5°	14.2	12.0	9.7	9.0	7.5	7.5	7.5	7.5	9.0	9.7	10.5
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)