

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: P193479

Luminaire Tested: **GAN-AF-01-LED-U-AFL-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-AFL-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4566 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G0

Input Watts (W): 67
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



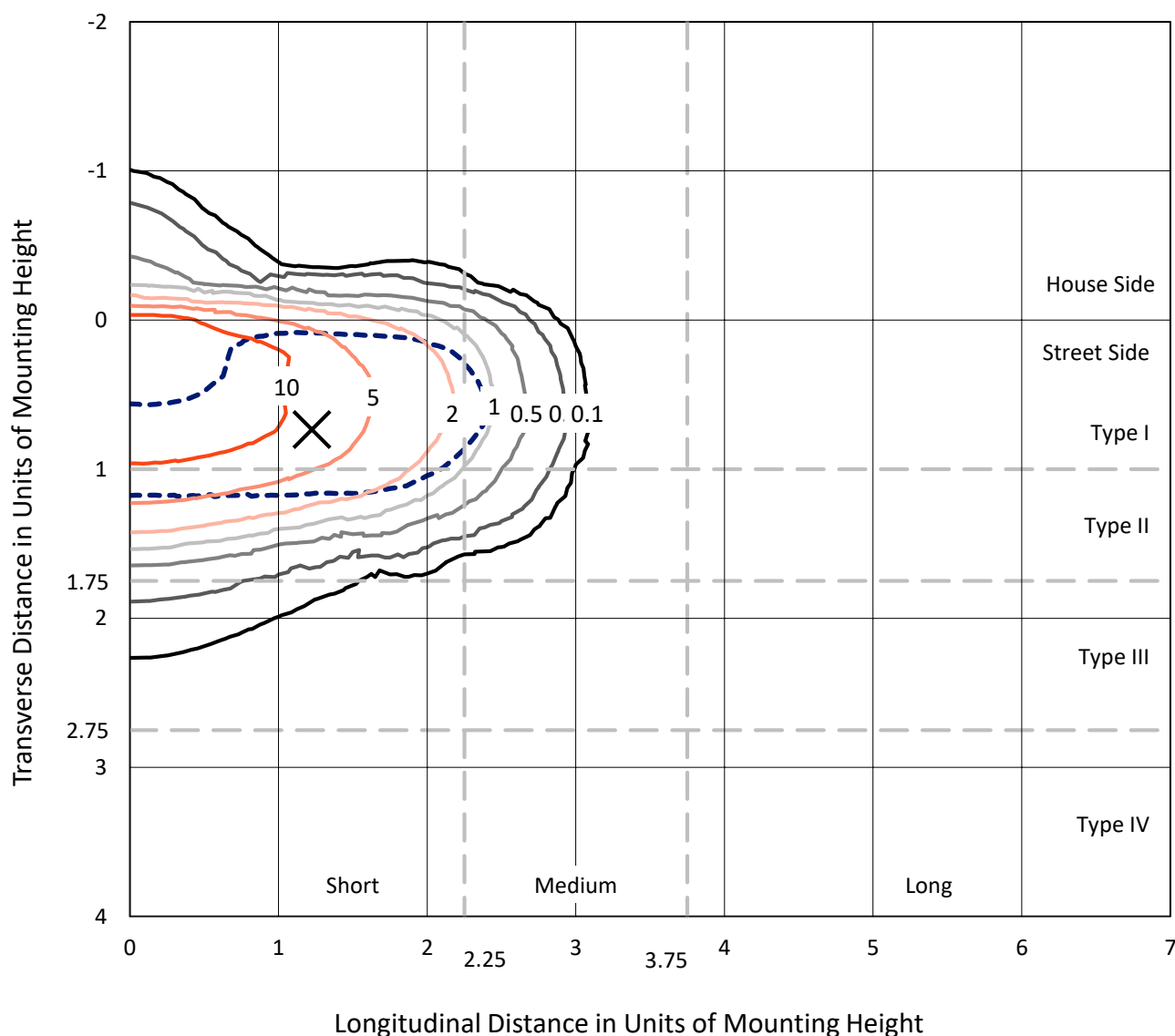
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

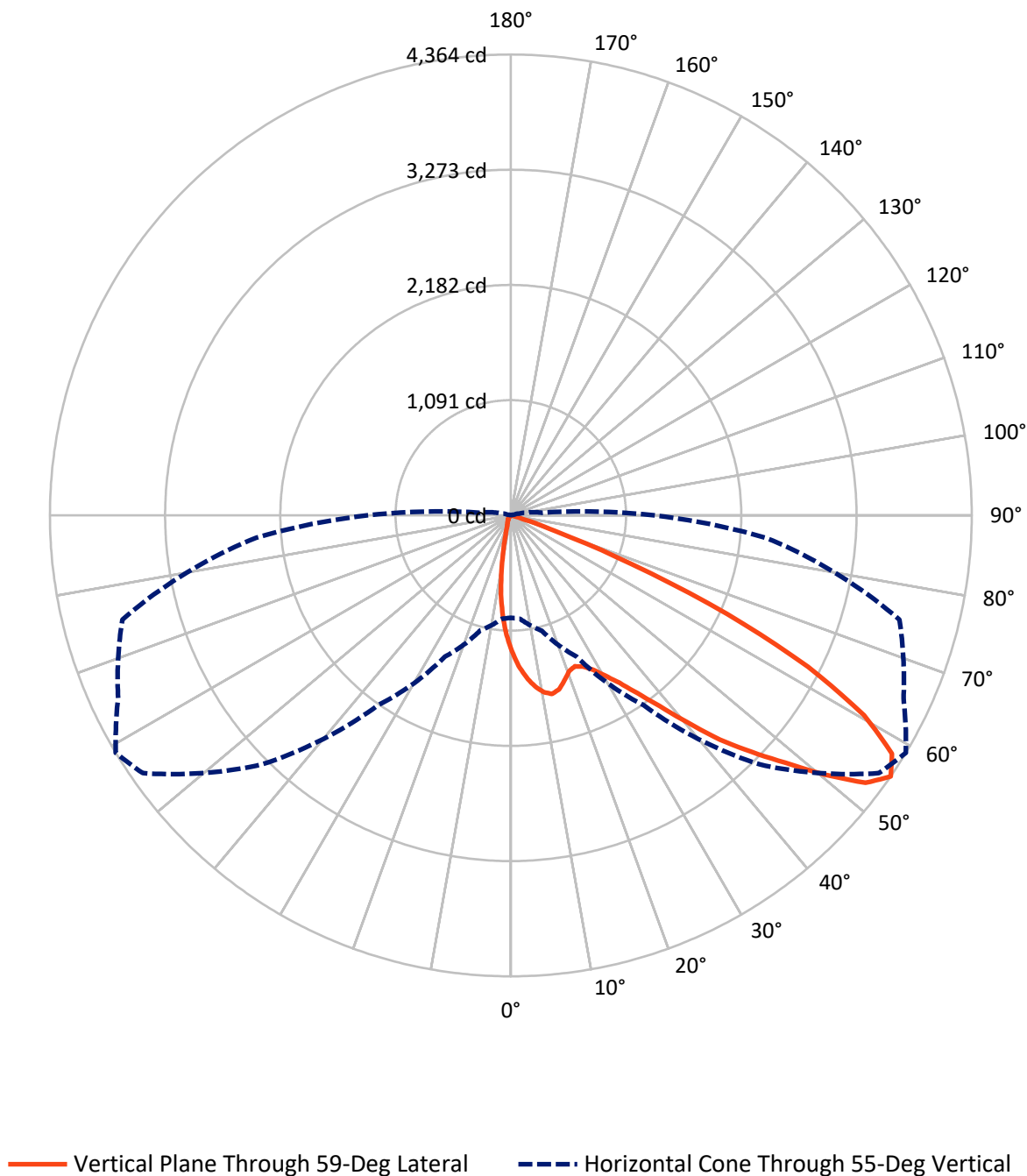


Based on 10 foot mounting height. Maximum calculated value = 16 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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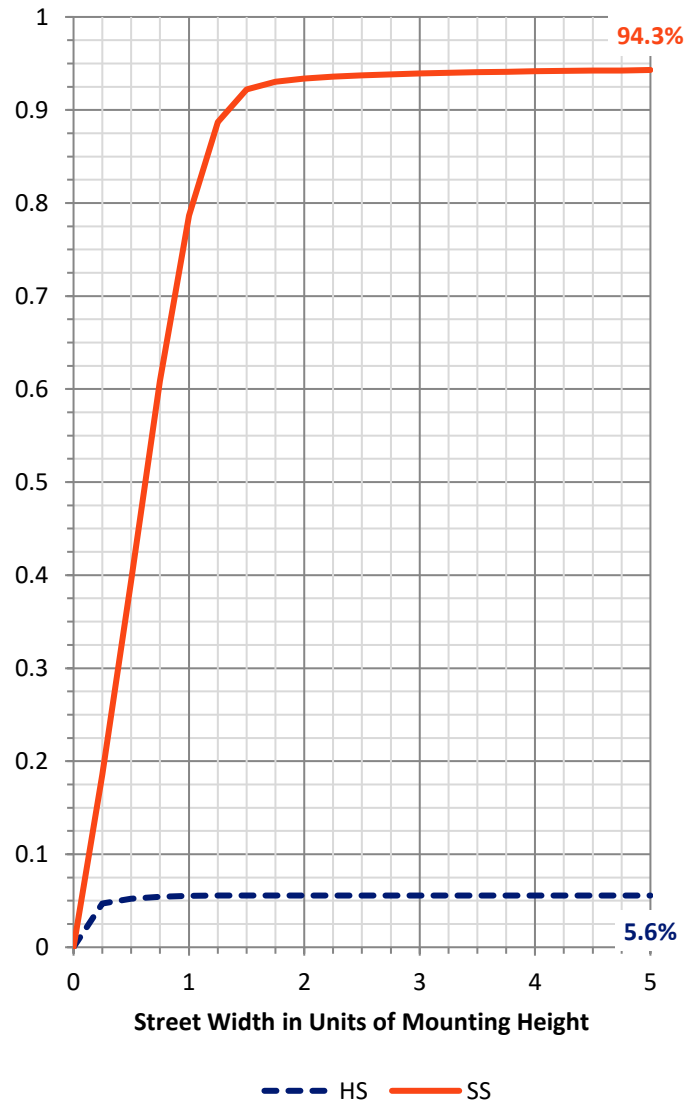
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	255.0	0.0	255.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	4311.0	0.0	4311.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	4566.0	0.0	4566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	2.4
10°-20°	257.8	5.6
20°-30°	438.6	9.6
30°-40°	754.3	16.5
40°-50°	1164.6	25.5
50°-60°	1170.8	25.6
60°-70°	600.4	13.1
70°-80°	65.1	1.4
80°-90°	6.8	0.1
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°	4566.0	100.0
0°-180°	4566.0	100.0

Coefficient of Utilization



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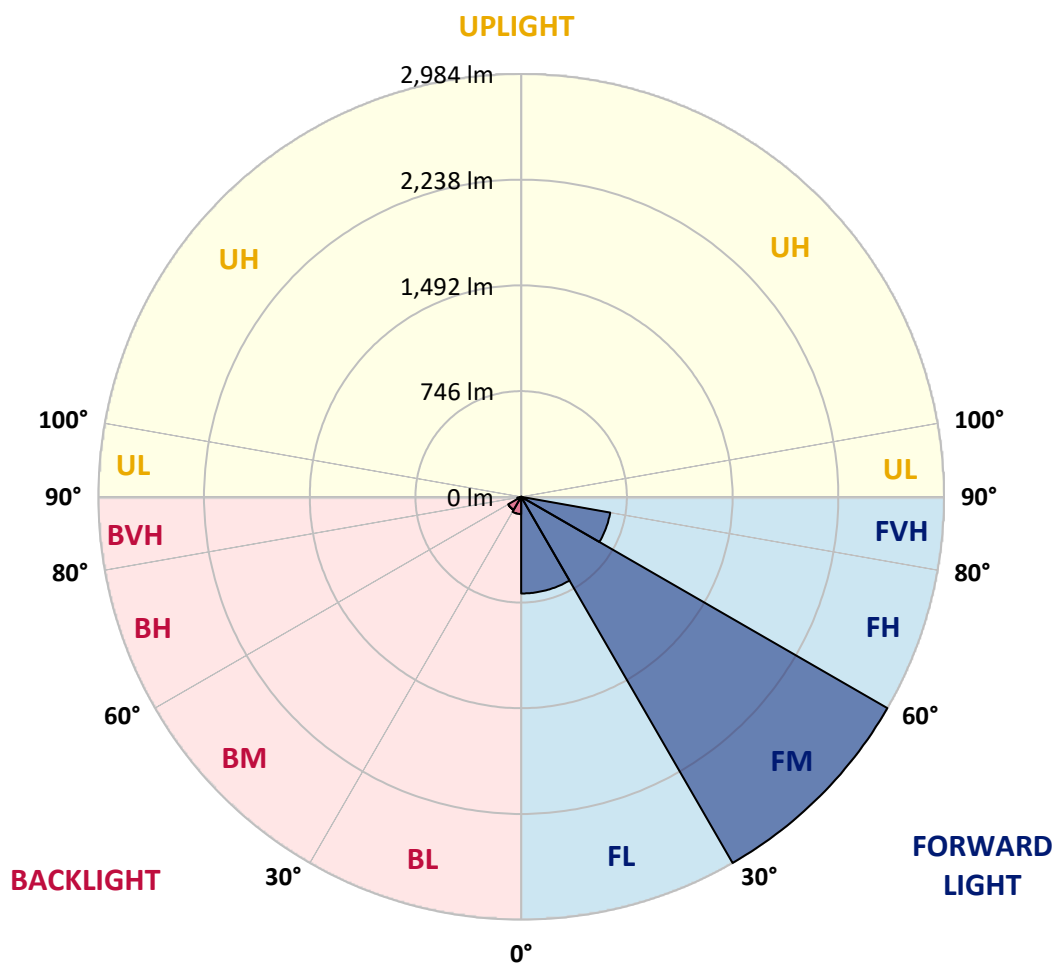
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	682.3	14.9			
FM	(30°-60°)	2983.9	65.3			
FH	(60°-80°)	638.1	14.0			G0/660
FVH	(80°-90°)	6.7	0.1			G0/10
BL	(0°-30°)	121.7	2.7	B1/500		
BM	(30°-60°)	105.8	2.3	B0/220		
BH	(60°-80°)	27.3	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3
2.5°	1520.8	1504.7	1499.8	1496.6	1481.7	1463.2	1437.8	1426.0	1401.7	1362.6	1314.7
5°	1660.1	1657.2	1646.4	1640.5	1624.6	1598.2	1557.7	1538.3	1499.8	1434.1	1348.1
7.5°	1599.2	1617.8	1632.6	1657.4	1688.7	1687.6	1653.7	1633.5	1590.3	1503.6	1385.3
10°	1364.0	1379.1	1403.3	1459.7	1574.4	1675.8	1715.6	1701.1	1666.6	1567.4	1421.1
12.5°	1317.9	1316.3	1320.6	1337.0	1397.1	1541.6	1705.1	1734.5	1727.5	1625.9	1455.1
15°	1342.4	1340.6	1340.0	1345.7	1360.2	1421.1	1626.2	1710.5	1764.7	1680.1	1483.9
17.5°	1411.1	1403.1	1398.8	1394.2	1389.9	1405.0	1531.3	1643.4	1770.3	1727.5	1507.9
20°	1528.9	1515.4	1499.5	1473.7	1449.4	1441.9	1491.4	1574.4	1750.1	1763.6	1523.5
22.5°	1676.8	1659.6	1632.1	1584.9	1535.6	1507.1	1511.1	1552.6	1719.9	1802.9	1530.8
25°	1843.1	1821.0	1784.3	1718.9	1646.4	1595.7	1569.3	1583.9	1706.2	1849.0	1539.1
27.5°	2021.2	1996.7	1948.7	1859.5	1777.3	1708.9	1655.0	1653.1	1729.6	1909.4	1552.6
30°	2197.7	2193.9	2131.4	2037.1	1928.2	1845.0	1767.4	1757.4	1795.1	1992.9	1579.3
32.5°	2433.2	2404.9	2328.4	2231.4	2105.8	2005.8	1914.0	1890.8	1895.6	2090.2	1620.5
35°	2730.1	2699.2	2591.4	2457.5	2317.1	2199.0	2097.5	2065.9	2054.1	2249.4	1690.0
37.5°	2922.0	2921.5	2853.8	2717.5	2566.9	2436.7	2326.2	2289.3	2265.3	2441.8	1797.8
40°	2927.1	2939.8	2948.7	2947.3	2840.1	2720.2	2622.1	2576.6	2520.8	2698.9	1937.1
42.5°	2770.0	2802.6	2881.0	3014.2	3077.7	3030.1	2947.3	2902.6	2819.6	2974.0	2106.9
45°	2557.7	2580.3	2717.5	2962.7	3206.5	3337.2	3274.2	3194.1	3084.8	3261.0	2259.1
47.5°	2462.6	2466.6	2555.3	2824.5	3216.2	3588.9	3627.2	3497.0	3325.6	3492.2	2378.2
50°	2178.3	2185.6	2307.9	2584.9	3102.5	3707.7	3981.8	3858.4	3588.4	3670.3	2421.6
52.5°	1641.8	1652.0	1807.3	2191.2	2790.0	3657.1	4235.6	4205.7	3876.1	3757.3	2424.0
55°	968.7	982.2	1130.4	1475.0	2194.5	3334.8	4254.5	4364.4	4103.3	3808.8	2420.3
57.5°	452.4	461.9	546.7	759.9	1364.8	2635.6	3970.5	4255.5	4228.6	3836.0	2446.9
60°	240.4	243.1	263.5	329.0	616.8	1671.2	3416.2	3842.7	4114.3	3873.7	2479.5
62.5°	183.8	184.6	183.5	191.3	259.2	741.8	2582.2	3159.1	3654.4	3845.4	2443.4
65°	159.2	160.6	153.1	151.2	166.3	264.6	1534.0	2251.9	2871.6	3463.6	2197.4
67.5°	142.8	143.4	134.2	126.4	129.1	143.1	605.2	1232.8	1900.8	2538.8	1592.8
70°	131.5	131.0	121.0	108.6	105.1	97.8	192.4	451.9	908.3	1287.5	740.7
72.5°	116.4	116.7	111.8	95.7	87.3	68.4	89.2	131.8	271.1	350.8	173.5
75°	103.2	101.9	95.9	85.7	71.9	45.0	44.2	58.7	83.5	83.0	37.5
77.5°	74.6	73.3	75.2	70.3	55.2	29.1	22.1	28.3	34.0	32.9	10.5
80°	54.7	53.9	48.5	58.5	48.8	19.9	13.7	15.1	17.5	14.8	3.2
82.5°	37.5	37.2	34.2	32.3	27.8	12.1	8.6	9.4	11.3	8.4	1.6
85°	5.9	6.7	24.8	19.7	16.4	5.4	5.9	6.5	7.5	4.6	0.5
87.5°	0.0	0.0	11.6	10.2	3.2	2.2	3.5	3.8	3.8	2.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3
2.5°	1290.2	1263.2	1213.4	1161.9	1114.2	1057.4	1018.3	988.9	955.0	945.8	965.7
5°	1299.1	1248.1	1140.9	1024.2	914.5	793.0	700.1	626.5	559.9	537.3	557.8
7.5°	1313.1	1237.3	1062.5	870.3	679.6	489.9	360.0	274.6	220.1	204.0	212.6
10°	1327.1	1221.7	971.7	688.2	427.4	238.5	155.2	124.0	112.4	109.9	111.3
12.5°	1338.7	1200.7	860.9	489.3	228.5	127.7	101.6	96.5	94.8	94.8	95.4
15°	1345.7	1168.9	729.7	311.2	131.5	96.5	88.7	87.0	87.0	87.3	87.8
17.5°	1344.9	1128.5	586.1	188.4	98.4	85.4	80.8	79.5	79.2	79.8	80.0
20°	1334.9	1075.7	441.9	124.2	85.7	77.9	73.3	70.9	70.6	71.1	71.7
22.5°	1316.0	1010.5	316.1	95.7	77.3	70.6	64.9	62.8	62.8	63.3	63.9
25°	1293.1	930.7	216.1	81.1	69.8	62.8	57.4	55.5	56.0	57.4	57.7
27.5°	1264.6	841.0	146.9	69.5	60.6	55.0	50.9	49.6	50.9	52.8	53.4
30°	1240.0	747.5	104.8	60.1	51.5	47.4	45.0	45.0	46.9	50.4	51.2
32.5°	1221.2	656.9	80.8	53.1	44.7	41.2	39.9	41.2	44.2	47.7	48.5
35°	1218.8	582.3	68.4	47.4	39.9	36.4	35.8	38.3	41.2	43.9	44.5
37.5°	1237.3	513.3	61.7	42.8	35.6	32.3	31.8	34.8	37.7	41.0	41.8
40°	1272.6	459.2	56.9	38.5	32.1	28.6	27.5	29.6	33.7	38.0	39.1
42.5°	1318.5	414.4	51.5	34.2	28.6	23.7	22.4	24.8	29.1	33.7	35.0
45°	1362.1	375.9	45.5	29.4	24.0	18.3	17.8	21.0	23.2	27.8	28.8
47.5°	1386.1	341.9	40.4	24.0	18.6	14.8	14.8	15.6	17.8	23.2	24.3
50°	1378.0	314.7	35.0	17.8	12.9	11.3	11.3	11.0	14.3	18.6	19.4
52.5°	1361.8	299.1	30.2	13.7	8.9	8.1	7.3	8.1	10.0	11.9	12.1
55°	1359.4	296.4	25.3	11.0	6.2	5.4	4.0	4.0	4.0	3.8	3.2
57.5°	1378.3	300.7	21.3	8.9	4.6	3.5	2.2	0.0	0.0	0.0	0.0
60°	1397.7	305.3	18.3	6.2	3.2	1.9	0.3	0.0	0.0	0.0	0.0
62.5°	1365.3	295.1	15.4	3.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0
65°	1199.4	251.1	12.1	2.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	853.1	168.1	8.1	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	389.4	70.3	5.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	83.3	21.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.0	15.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.4	25.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.2	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)