

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: P193469

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193469
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 4163 lumens
Efficiency: N/A
Efficacy: 70.6 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): 59
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



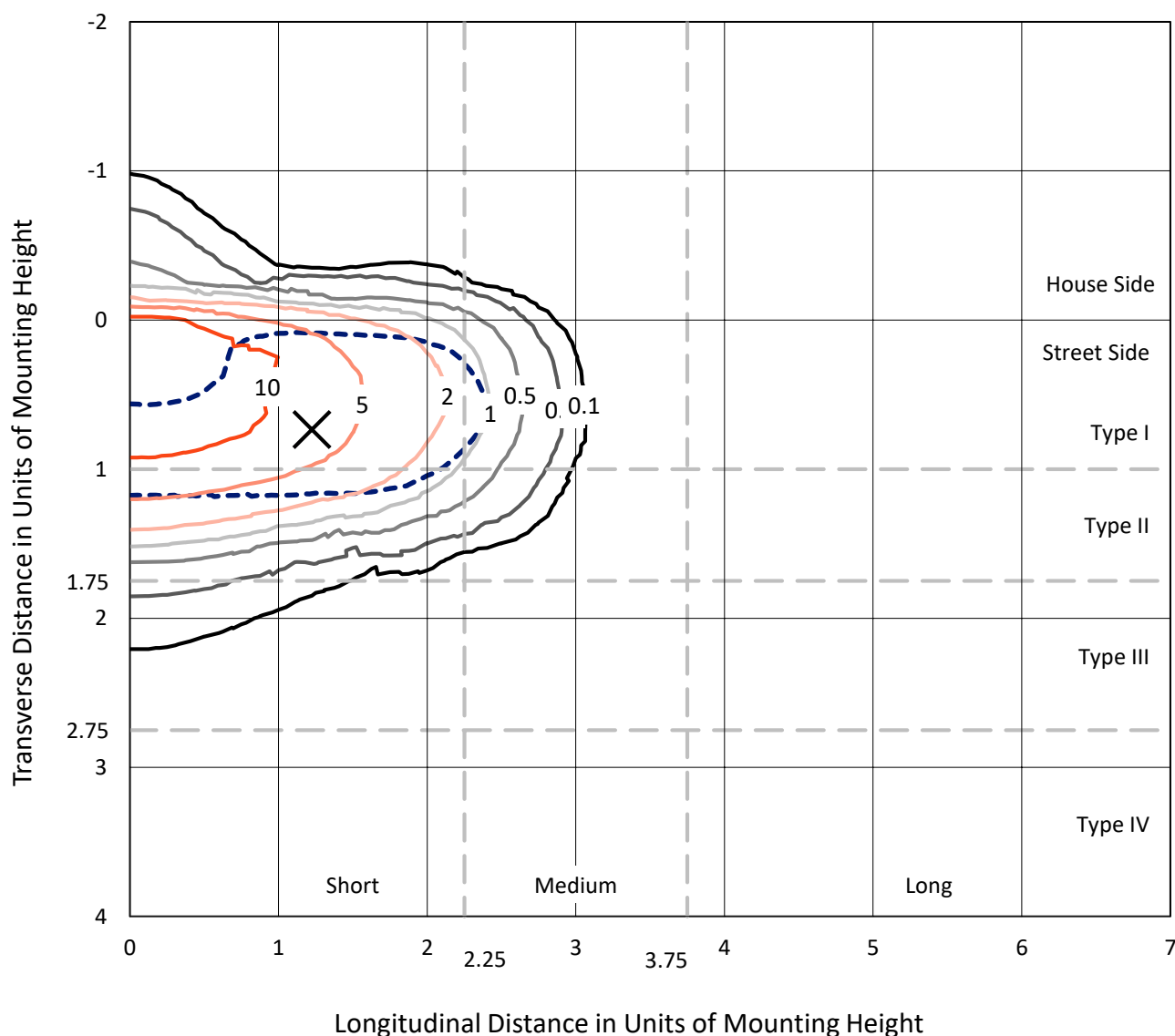
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

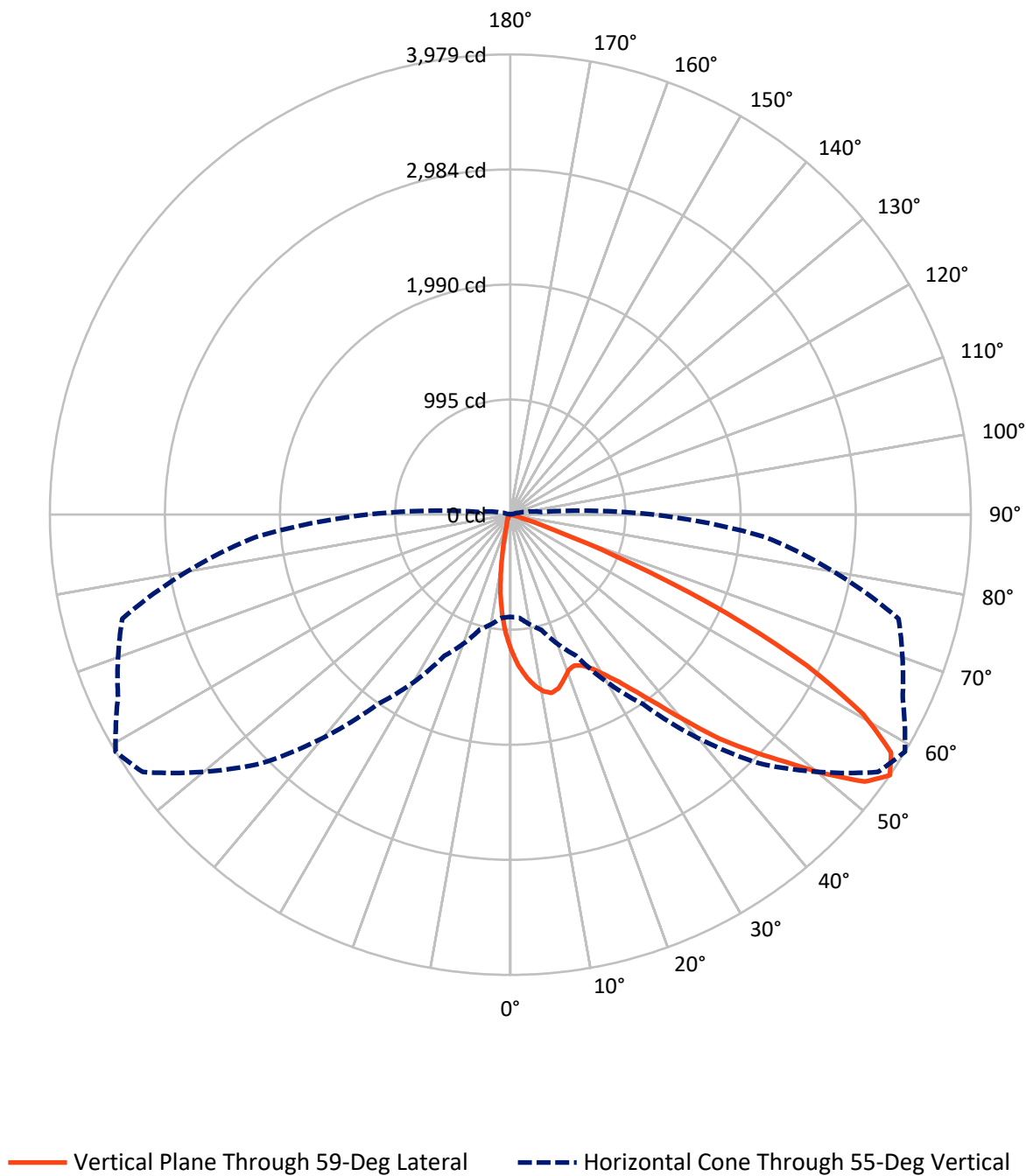


Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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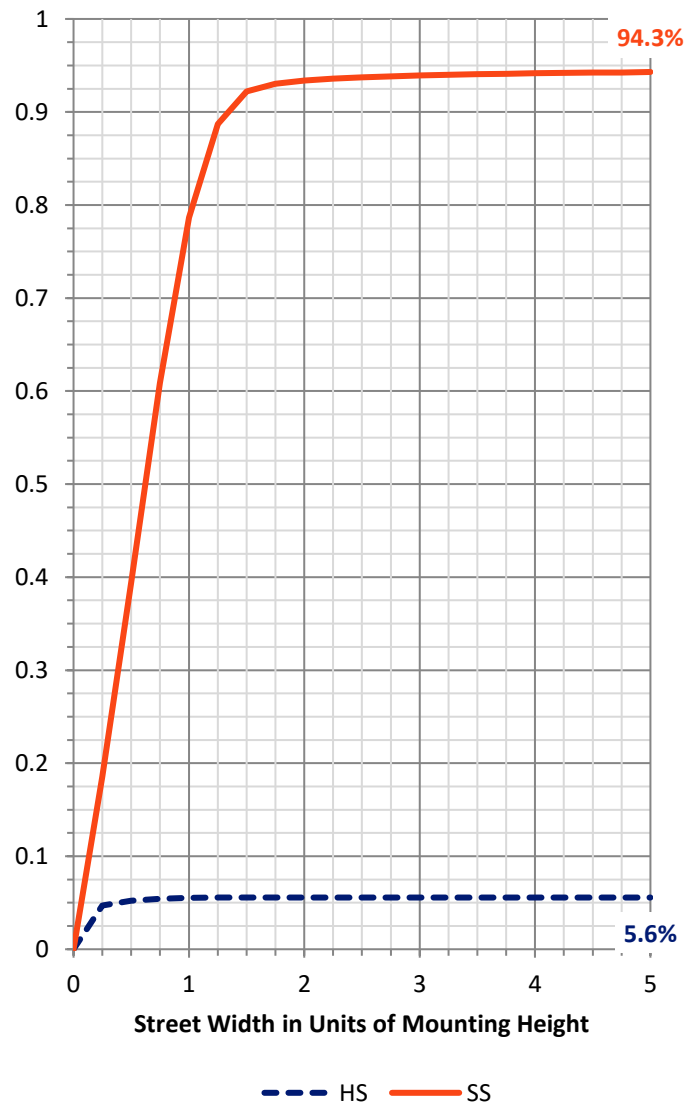
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	232.5	0.0	232.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	3930.5	0.0	3930.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	4163.0	0.0	4163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	2.4
10°-20°	235.0	5.6
20°-30°	399.9	9.6
30°-40°	687.7	16.5
40°-50°	1061.8	25.5
50°-60°	1067.5	25.6
60°-70°	547.4	13.1
70°-80°	59.3	1.4
80°-90°	6.2	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°	4163.0	100.0
0°-180°	4163.0	100.0

Coefficient of Utilization



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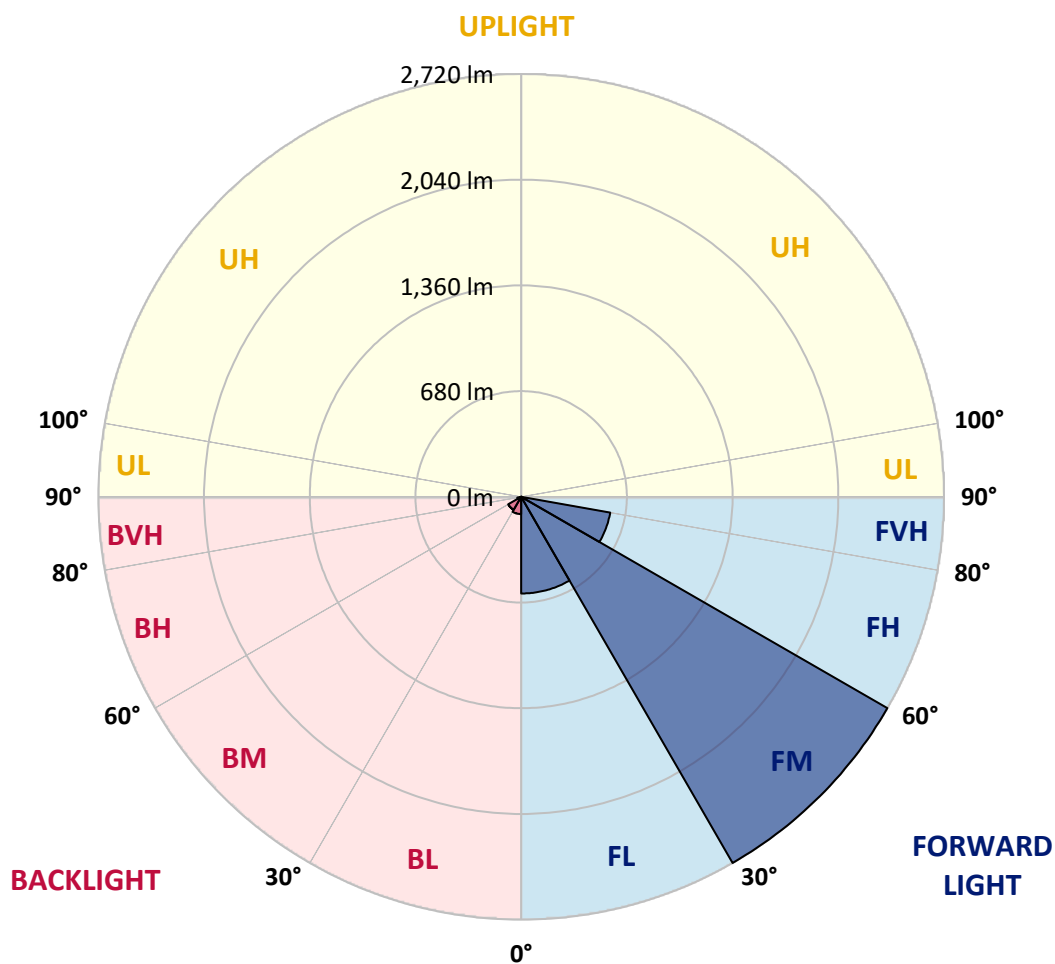
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	622.1	14.9			
FM	(30°-60°)	2720.5	65.3			
FH	(60°-80°)	581.8	14.0			G0/660
FVH	(80°-90°)	6.1	0.1			G0/10
BL	(0°-30°)	111.0	2.7	B1/500		
BM	(30°-60°)	96.5	2.3	B0/220		
BH	(60°-80°)	24.9	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°	1171.9	1171.9	1171.9	1171.9	1171.9	1171.9	1171.9	1171.9	1171.9	1171.9	1171.9
2.5°	1386.6	1371.8	1367.4	1364.5	1351.0	1334.0	1310.9	1300.1	1278.0	1242.4	1198.6
5°	1513.6	1510.9	1501.1	1495.7	1481.2	1457.1	1420.2	1402.6	1367.4	1307.5	1229.1
7.5°	1458.1	1475.0	1488.5	1511.1	1539.6	1538.7	1507.7	1489.3	1450.0	1370.9	1263.0
10°	1243.6	1257.4	1279.5	1330.8	1435.5	1527.9	1564.2	1550.9	1519.5	1429.1	1295.7
12.5°	1201.6	1200.1	1204.1	1219.0	1273.8	1405.5	1554.6	1581.4	1575.0	1482.4	1326.6
15°	1224.0	1222.2	1221.7	1226.9	1240.2	1295.7	1482.6	1559.5	1608.9	1531.8	1352.9
17.5°	1286.6	1279.2	1275.3	1271.1	1267.2	1280.9	1396.2	1498.4	1614.1	1575.0	1374.8
20°	1394.0	1381.7	1367.2	1343.6	1321.5	1314.6	1359.8	1435.5	1595.7	1607.9	1389.0
22.5°	1528.8	1513.1	1488.1	1445.1	1400.1	1374.1	1377.7	1415.6	1568.1	1643.8	1395.7
25°	1680.4	1660.3	1626.9	1567.2	1501.1	1454.9	1430.8	1444.1	1555.6	1685.8	1403.3
27.5°	1842.8	1820.5	1776.7	1695.4	1620.5	1558.1	1508.9	1507.2	1577.0	1740.9	1415.6
30°	2003.7	2000.3	1943.3	1857.3	1758.0	1682.1	1611.4	1602.3	1636.7	1817.0	1439.9
32.5°	2218.4	2192.6	2122.9	2034.4	1919.9	1828.8	1745.0	1723.9	1728.3	1905.7	1477.5
35°	2489.2	2460.9	2362.7	2240.6	2112.6	2005.0	1912.3	1883.6	1872.8	2050.9	1540.9
37.5°	2664.1	2663.6	2601.9	2477.6	2340.3	2221.6	2120.9	2087.3	2065.4	2226.3	1639.1
40°	2668.8	2680.3	2688.4	2687.2	2589.4	2480.1	2390.7	2349.1	2298.3	2460.7	1766.2
42.5°	2525.5	2555.3	2626.8	2748.1	2806.1	2762.6	2687.2	2646.4	2570.7	2711.5	1920.9
45°	2331.9	2352.6	2477.6	2701.2	2923.5	3042.7	2985.2	2912.2	2812.5	2973.2	2059.7
47.5°	2245.2	2248.9	2329.7	2575.2	2932.4	3272.1	3307.0	3188.4	3032.1	3183.9	2168.3
50°	1986.0	1992.7	2104.2	2356.8	2828.7	3380.5	3630.3	3517.8	3271.7	3346.3	2207.9
52.5°	1496.9	1506.2	1647.7	1997.8	2543.7	3334.3	3861.8	3834.5	3534.0	3425.7	2210.1
55°	883.2	895.5	1030.6	1344.8	2000.8	3040.5	3879.0	3979.2	3741.1	3472.6	2206.7
57.5°	412.5	421.1	498.5	692.8	1244.3	2402.9	3620.0	3879.9	3855.4	3497.4	2231.0
60°	219.1	221.6	240.3	300.0	562.3	1523.7	3114.7	3503.6	3751.2	3531.8	2260.7
62.5°	167.6	168.3	167.3	174.4	236.3	676.3	2354.3	2880.3	3331.8	3506.0	2227.8
65°	145.2	146.4	139.5	137.8	151.6	241.3	1398.6	2053.1	2618.2	3157.9	2003.5
67.5°	130.2	130.7	122.3	115.2	117.7	130.5	551.8	1124.0	1733.0	2314.7	1452.2
70°	119.9	119.4	110.3	99.0	95.8	89.2	175.4	412.0	828.2	1173.8	675.4
72.5°	106.1	106.4	102.0	87.2	79.6	62.4	81.3	120.1	247.1	319.9	158.2
75°	94.1	92.9	87.5	78.1	65.6	41.0	40.3	53.6	76.2	75.7	34.1
77.5°	68.1	66.8	68.5	64.1	50.4	26.5	20.1	25.8	31.0	30.0	9.6
80°	49.9	49.1	44.2	53.3	44.5	18.2	12.5	13.8	16.0	13.5	2.9
82.5°	34.1	33.9	31.2	29.5	25.3	11.1	7.9	8.6	10.3	7.6	1.5
85°	5.4	6.1	22.6	17.9	15.0	4.9	5.4	5.9	6.9	4.2	0.5
87.5°	0.0	0.0	10.6	9.3	2.9	2.0	3.2	3.4	3.4	2.2	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°	1171.9	1171.9	1171.9	1171.9	1171.9	1171.9	1171.9	1171.9	1171.9	1171.9	1171.9
2.5°	1176.3	1151.7	1106.3	1059.4	1015.9	964.0	928.4	901.6	870.7	862.3	880.5
5°	1184.4	1138.0	1040.2	933.8	833.8	723.0	638.3	571.2	510.5	489.9	508.5
7.5°	1197.2	1128.1	968.7	793.5	619.6	446.6	328.2	250.3	200.7	186.0	193.8
10°	1209.9	1113.9	885.9	627.5	389.6	217.4	141.5	113.0	102.4	100.2	101.5
12.5°	1220.5	1094.7	784.9	446.1	208.3	116.4	92.6	88.0	86.5	86.5	87.0
15°	1226.9	1065.7	665.3	283.8	119.9	88.0	80.8	79.4	79.4	79.6	80.1
17.5°	1226.2	1028.9	534.3	171.7	89.7	77.9	73.7	72.5	72.2	72.7	73.0
20°	1217.1	980.7	402.9	113.3	78.1	71.0	66.8	64.6	64.4	64.9	65.3
22.5°	1199.9	921.3	288.2	87.2	70.5	64.4	59.2	57.2	57.2	57.7	58.2
25°	1179.0	848.6	197.0	73.9	63.6	57.2	52.3	50.6	51.1	52.3	52.6
27.5°	1153.0	766.8	133.9	63.4	55.3	50.1	46.4	45.2	46.4	48.2	48.6
30°	1130.6	681.5	95.6	54.8	46.9	43.2	41.0	41.0	42.7	45.9	46.7
32.5°	1113.4	599.0	73.7	48.4	40.8	37.6	36.4	37.6	40.3	43.5	44.2
35°	1111.2	530.9	62.4	43.2	36.4	33.2	32.7	34.9	37.6	40.0	40.5
37.5°	1128.1	468.0	56.3	39.1	32.4	29.5	29.0	31.7	34.4	37.3	38.1
40°	1160.3	418.6	51.8	35.1	29.2	26.0	25.1	27.0	30.7	34.6	35.6
42.5°	1202.1	377.8	46.9	31.2	26.0	21.6	20.4	22.6	26.5	30.7	31.9
45°	1241.9	342.7	41.5	26.8	21.9	16.7	16.2	19.2	21.1	25.3	26.3
47.5°	1263.8	311.8	36.9	21.9	17.0	13.5	13.5	14.2	16.2	21.1	22.1
50°	1256.4	286.9	31.9	16.2	11.8	10.3	10.3	10.1	13.0	17.0	17.7
52.5°	1241.6	272.7	27.5	12.5	8.1	7.4	6.6	7.4	9.1	10.8	11.1
55°	1239.4	270.2	23.1	10.1	5.7	4.9	3.7	3.7	3.7	3.4	2.9
57.5°	1256.6	274.2	19.4	8.1	4.2	3.2	2.0	0.0	0.0	0.0	0.0
60°	1274.3	278.3	16.7	5.7	2.9	1.7	0.2	0.0	0.0	0.0	0.0
62.5°	1244.8	269.0	14.0	3.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0
65°	1093.5	229.0	11.1	2.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	777.8	153.3	7.4	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	355.0	64.1	4.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	75.9	19.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.5	14.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.9	22.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.9	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	2.5	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)