

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: P200192

Luminaire Tested: **GAW-AF-02-LED-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAW-AF-02-LED-U-T3
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12710.1 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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

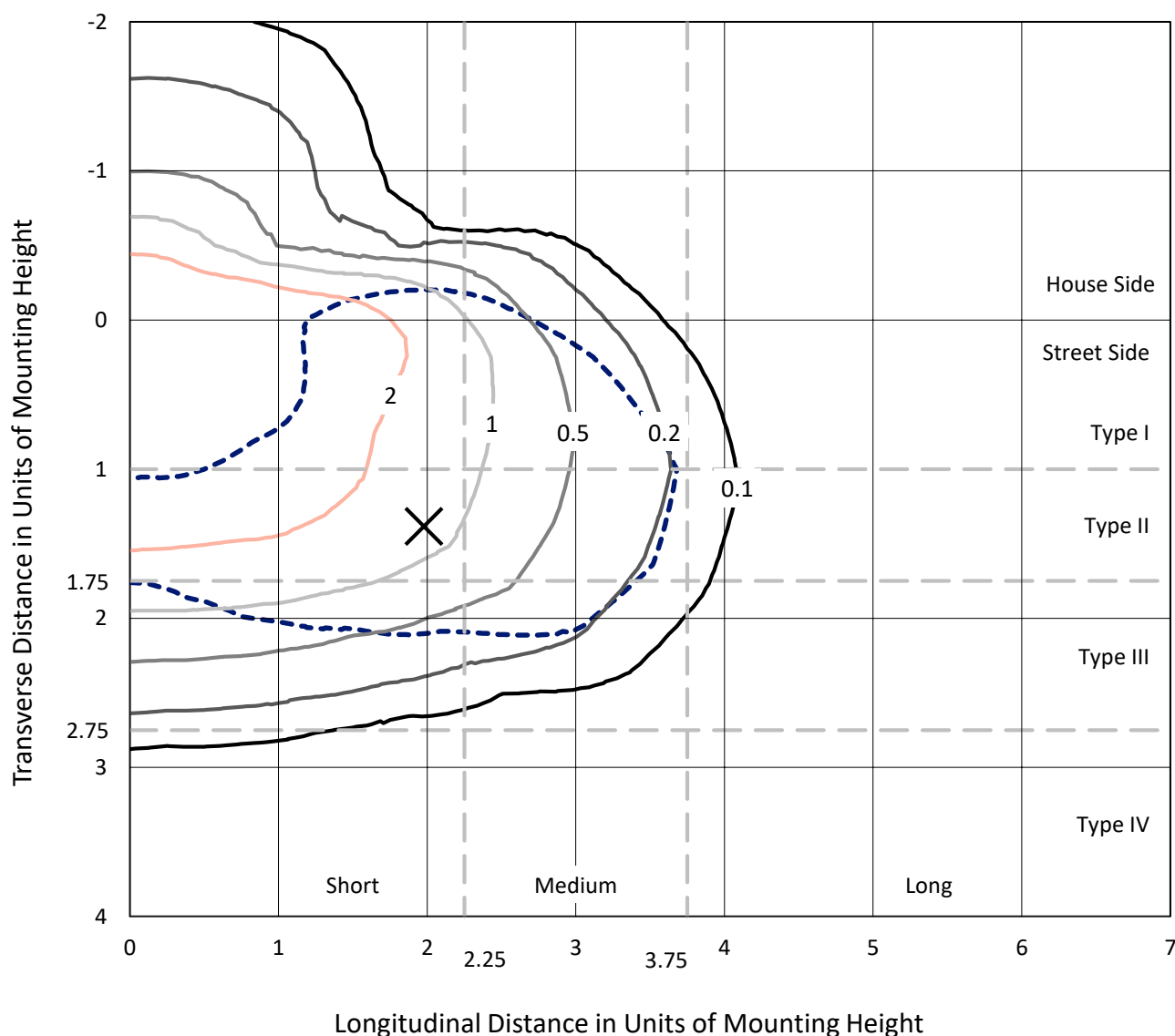


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

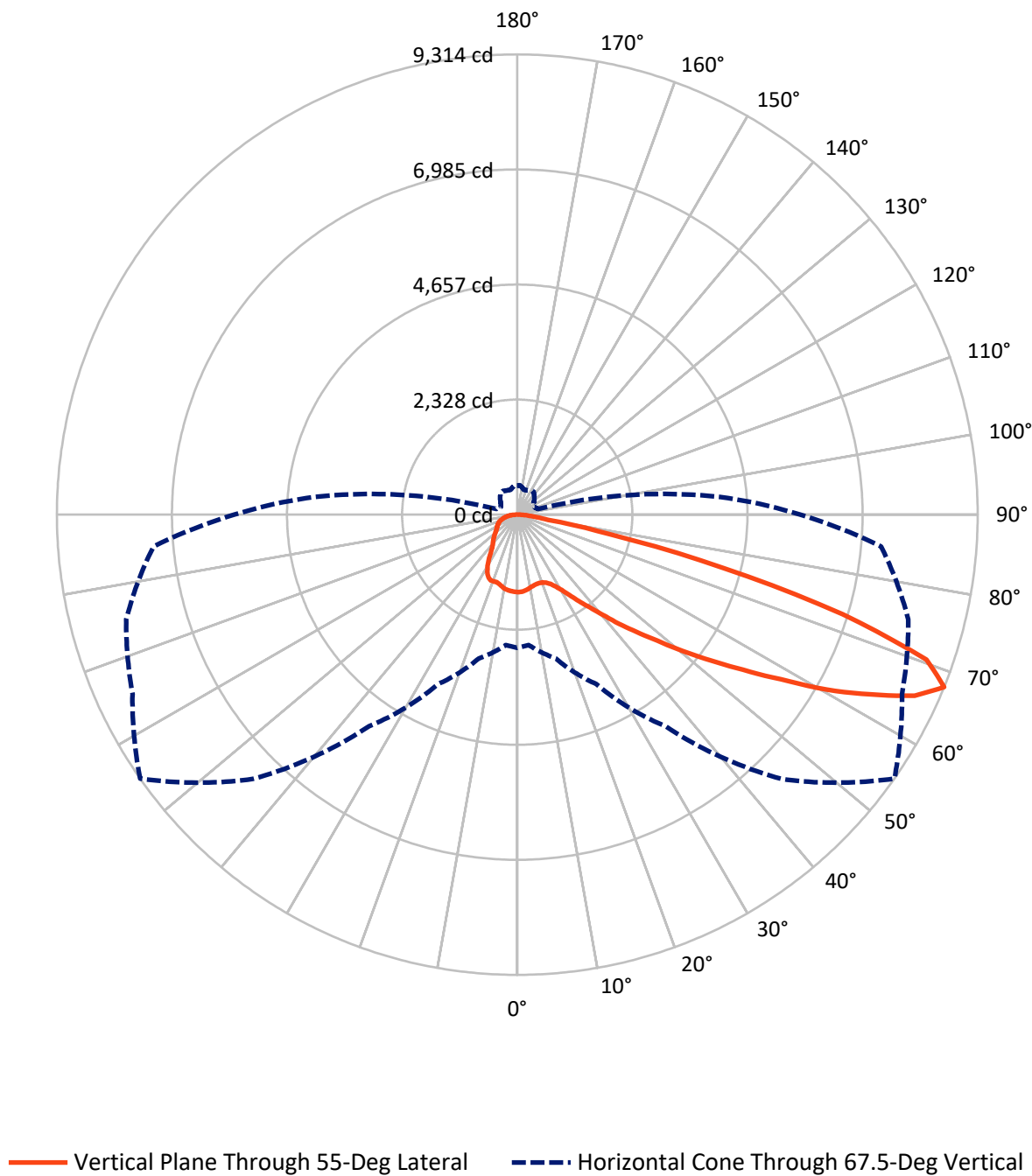


Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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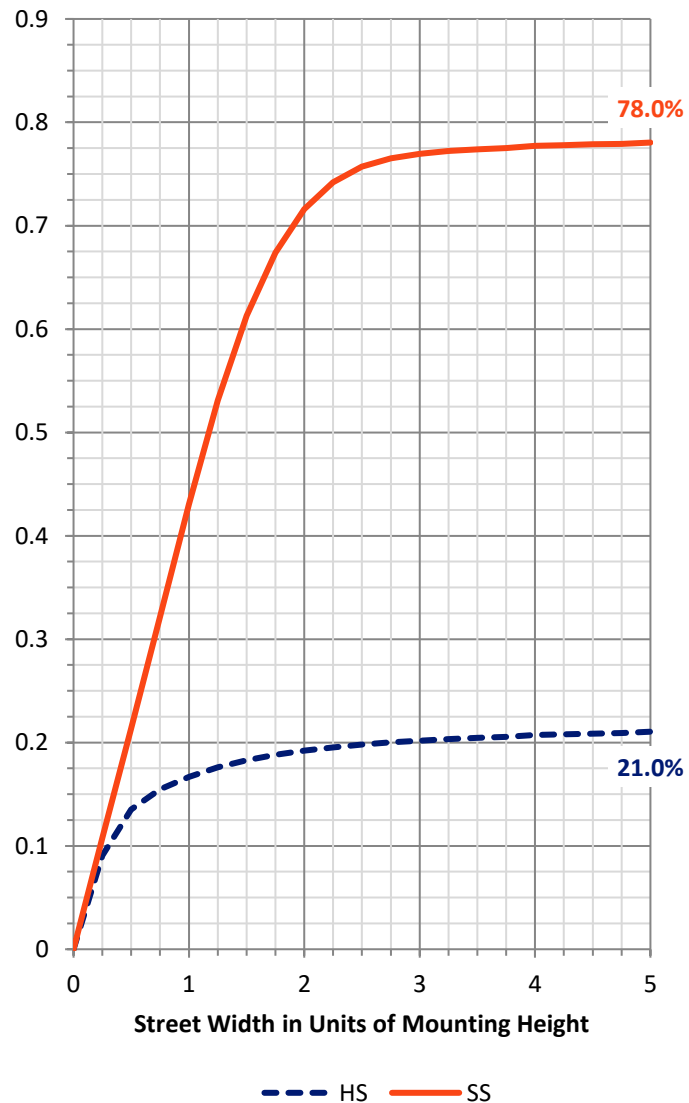
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2745.6	0.0	2745.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9964.5	0.0	9964.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	12710.1	0.0	12710.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	1.2
10°-20°	414.3	3.3
20°-30°	694.0	5.5
30°-40°	1141.3	9.0
40°-50°	1921.1	15.1
50°-60°	3023.7	23.8
60°-70°	3608.5	28.4
70°-80°	1549.6	12.2
80°-90°	211.3	1.7
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°	12710.1	100.0
0°-180°	12710.1	100.0

Coefficient of Utilization



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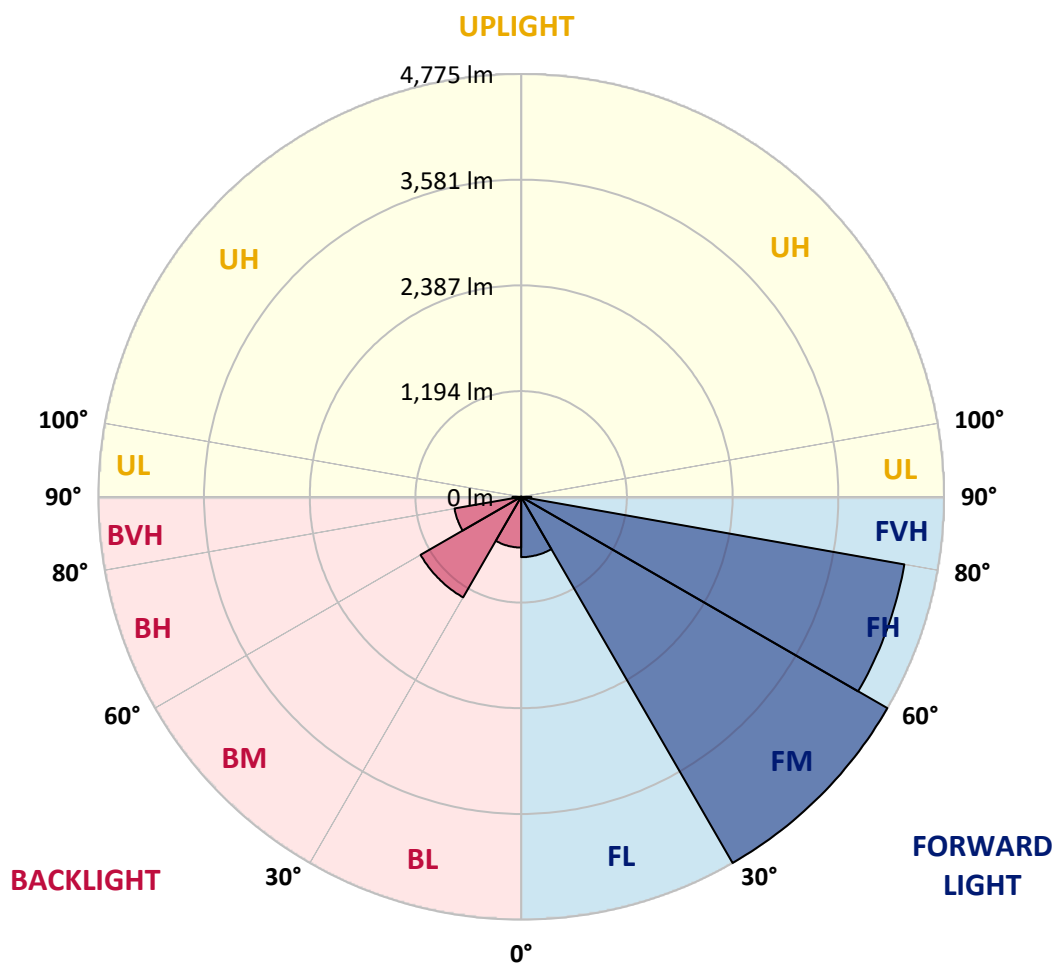
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	681.3	5.4			
FM	(30°-60°)	4774.9	37.6			
FH	(60°-80°)	4394.0	34.6			G2/5000
FVH	(80°-90°)	114.4	0.9			G2/225
BL	(0°-30°)	573.3	4.5	B2/1000		
BM	(30°-60°)	1311.3	10.3	B2/2500		
BH	(60°-80°)	764.1	6.0	B2/1000		G2/1000
BVH	(80°-90°)	96.9	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3
2.5°	1553.8	1554.4	1555.6	1560.5	1564.8	1563.6	1564.2	1561.7	1561.1	1557.4	1561.1
5°	1534.1	1536.0	1536.6	1544.6	1549.5	1550.7	1548.8	1545.8	1542.1	1538.4	1540.3
7.5°	1489.3	1494.2	1494.8	1505.9	1513.9	1524.3	1524.9	1525.5	1523.7	1521.2	1524.9
10°	1461.1	1462.3	1461.7	1469.7	1475.8	1487.5	1494.2	1505.9	1510.8	1512.0	1514.5
12.5°	1459.2	1458.0	1456.2	1456.2	1454.3	1459.2	1471.5	1488.1	1499.7	1503.4	1506.5
15°	1478.9	1478.3	1472.1	1462.9	1451.3	1447.6	1458.0	1476.4	1491.8	1499.7	1502.8
17.5°	1523.1	1519.4	1509.6	1488.7	1463.5	1453.7	1454.9	1470.3	1488.1	1498.5	1501.6
20°	1604.1	1604.1	1583.2	1543.9	1499.1	1475.8	1464.8	1474.0	1491.2	1505.3	1509.6
22.5°	1744.1	1745.4	1710.4	1645.9	1570.3	1520.6	1493.0	1491.2	1511.4	1527.4	1532.3
25°	1942.4	1937.5	1888.4	1796.3	1681.5	1599.2	1551.3	1540.3	1557.4	1575.2	1581.4
27.5°	2173.3	2155.5	2097.2	1986.0	1837.4	1717.1	1643.5	1625.7	1642.2	1662.5	1668.6
30°	2401.6	2383.2	2313.8	2192.3	2027.1	1874.9	1769.3	1740.4	1763.8	1792.6	1796.3
32.5°	2630.0	2630.0	2552.7	2410.8	2231.0	2063.3	1936.9	1902.5	1941.2	1976.1	1984.1
35°	2903.1	2904.4	2829.5	2658.9	2465.4	2288.0	2148.7	2123.5	2181.9	2206.4	2225.4
37.5°	3239.0	3245.7	3149.4	2943.0	2731.3	2544.6	2378.9	2344.5	2402.8	2469.7	2531.1
40°	3601.8	3610.4	3504.2	3250.0	3038.3	2843.0	2663.8	2601.8	2698.7	2826.4	2905.6
42.5°	3948.1	3992.3	3889.7	3628.2	3400.4	3198.5	3016.8	2926.5	3048.1	3240.8	3309.6
45°	4448.4	4480.3	4301.6	4064.7	3850.4	3624.5	3383.8	3288.7	3458.7	3701.9	3716.0
47.5°	4781.7	4757.7	4666.9	4519.6	4383.9	4172.7	3810.5	3706.2	3932.0	4218.1	4139.0
50°	4959.2	4966.5	4954.3	4962.8	4967.8	4835.1	4333.5	4190.5	4460.1	4805.6	4623.3
52.5°	5124.9	5075.8	5116.3	5317.6	5560.8	5511.7	4902.7	4753.4	5026.1	5457.6	5135.3
55°	5121.2	5046.3	5178.3	5533.8	6061.1	6117.6	5541.7	5369.9	5624.6	6156.8	5678.0
57.5°	4940.1	4943.8	5147.0	5612.3	6409.8	6687.2	6283.4	6025.5	6259.4	6865.3	6173.4
60°	4690.8	4724.6	5017.5	5599.4	6689.1	7154.4	7193.2	6732.1	6881.3	7509.3	6583.5
62.5°	4288.7	4324.3	4728.3	5465.6	6646.7	7604.4	8015.7	7533.8	7531.4	7899.7	6703.8
65°	3654.6	3644.2	4068.4	4965.3	6291.4	7937.2	8832.9	8227.0	8021.3	7905.9	6462.0
67.5°	2695.1	2648.4	3012.5	3781.6	5229.2	7564.5	9313.6	8588.0	8188.3	7385.9	5722.8
70°	1398.5	1351.8	1646.5	2208.2	3439.1	5904.0	8781.3	8401.3	7819.3	6191.2	4483.4
72.5°	597.9	589.9	709.7	968.7	1663.7	3405.3	6885.6	7271.7	6709.3	4612.9	3082.5
75°	402.1	399.7	444.5	527.9	748.4	1381.9	4309.0	5161.7	4908.8	2860.2	1733.7
77.5°	315.6	312.5	338.9	379.4	485.0	545.1	1912.3	2771.2	2564.9	1245.0	758.8
80°	246.8	244.4	261.0	283.1	348.7	343.8	629.2	1102.5	853.3	477.0	369.0
82.5°	194.6	194.6	208.1	208.7	247.5	234.6	328.5	485.6	426.1	278.1	225.9
85°	178.0	178.0	192.1	155.9	161.4	147.9	203.8	288.0	270.2	114.2	98.2
87.5°	89.6	87.2	161.4	138.1	87.8	78.6	99.4	139.3	149.8	63.2	49.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3
2.5°	1559.9	1559.3	1560.5	1561.1	1566.0	1572.8	1575.9	1580.2	1582.6	1581.4
5°	1541.5	1542.7	1547.6	1551.3	1559.9	1570.9	1577.1	1582.0	1586.3	1584.4
7.5°	1526.1	1529.2	1536.6	1539.6	1544.6	1547.6	1547.0	1548.8	1552.5	1548.2
10°	1517.5	1521.2	1526.8	1522.5	1510.8	1494.2	1478.9	1470.9	1473.4	1470.3
12.5°	1509.0	1513.9	1509.6	1489.3	1456.8	1435.3	1423.6	1424.9	1430.4	1431.6
15°	1504.0	1505.9	1487.5	1449.4	1416.3	1413.2	1419.3	1418.1	1418.7	1418.7
17.5°	1504.0	1499.1	1464.8	1426.7	1412.6	1407.1	1388.0	1364.1	1353.7	1350.0
20°	1512.0	1499.1	1457.4	1432.2	1401.5	1354.3	1304.0	1259.8	1240.1	1234.6
22.5°	1536.0	1513.9	1478.3	1434.7	1347.5	1268.4	1188.6	1135.7	1100.1	1093.9
25°	1584.4	1559.9	1519.4	1402.2	1261.6	1148.6	1057.7	998.8	963.2	958.3
27.5°	1669.3	1653.3	1541.5	1330.3	1147.3	1026.4	942.3	896.9	870.5	868.7
30°	1796.9	1788.9	1530.4	1224.2	1006.8	908.0	867.5	841.1	821.4	820.8
32.5°	2000.7	1936.2	1494.2	1094.6	878.5	823.9	807.3	791.4	776.0	776.0
35°	2262.9	2055.3	1425.5	955.8	800.6	777.2	756.4	731.2	711.0	709.7
37.5°	2571.1	2129.1	1302.1	844.1	763.7	745.9	715.2	677.7	642.1	636.0
40°	2882.3	2151.2	1128.3	775.4	740.4	714.6	677.1	632.9	598.5	596.7
42.5°	3167.8	2108.8	944.2	728.1	717.1	682.6	643.3	604.1	577.0	576.4
45°	3407.1	1998.8	789.5	683.2	692.4	653.8	618.8	586.9	566.0	561.7
47.5°	3632.5	1843.6	680.8	636.0	667.9	637.8	608.3	578.3	558.0	555.0
50°	3894.0	1676.0	604.7	589.9	646.4	632.3	616.9	585.6	551.9	548.2
52.5°	4210.8	1531.1	545.1	549.4	629.8	639.7	639.0	606.5	547.6	542.7
55°	4564.4	1370.2	500.3	516.3	623.1	653.2	644.6	626.1	551.3	543.9
57.5°	4912.5	1182.4	469.0	491.1	613.3	651.9	618.2	591.8	559.9	549.4
60°	5173.4	930.1	445.1	469.0	591.8	631.7	589.3	554.3	558.0	550.0
62.5°	5190.6	718.9	416.2	450.0	559.2	611.4	570.3	537.8	566.0	558.6
65°	4885.5	543.3	388.6	427.3	524.3	598.5	551.9	528.6	582.6	574.6
67.5°	4113.2	437.1	365.3	404.0	489.3	571.5	535.3	520.0	597.3	583.2
70°	2969.4	372.7	342.6	375.7	458.0	540.8	520.6	504.6	557.4	535.3
72.5°	1828.2	322.9	316.8	338.3	434.0	508.9	498.5	475.8	502.2	484.4
75°	912.9	280.0	288.0	301.5	400.3	472.7	461.7	438.9	442.6	438.9
77.5°	437.1	239.5	254.2	264.6	356.7	431.6	419.9	396.6	392.3	392.9
80°	276.9	200.1	214.2	221.6	318.6	383.7	372.0	348.7	397.8	369.0
82.5°	173.1	162.6	166.3	179.8	277.5	334.0	318.6	297.8	358.5	283.7
85°	95.7	113.5	118.5	130.1	213.6	279.4	264.0	237.6	213.0	209.3
87.5°	57.1	67.5	69.4	77.9	143.6	201.9	178.6	169.4	140.6	139.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)