

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: P269779

Luminaire Tested: **GAP-AF-01-LED-U-AFL-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269779
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: GAP-AF-01-LED-U-AFL-7027-1200-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 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: 4959.4 lumens
Efficiency: N/A
Efficacy: 74.0 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 - G1

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



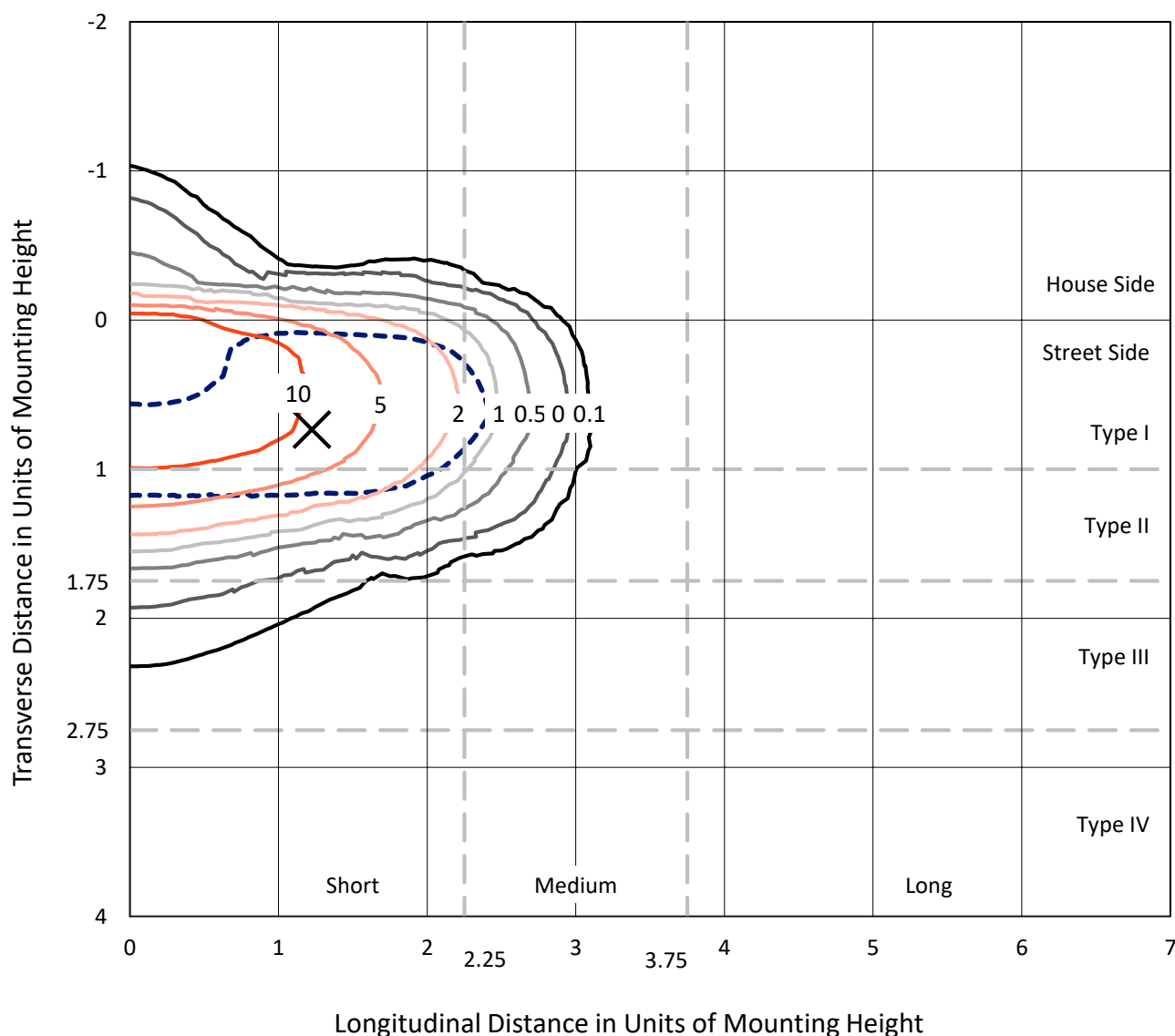
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

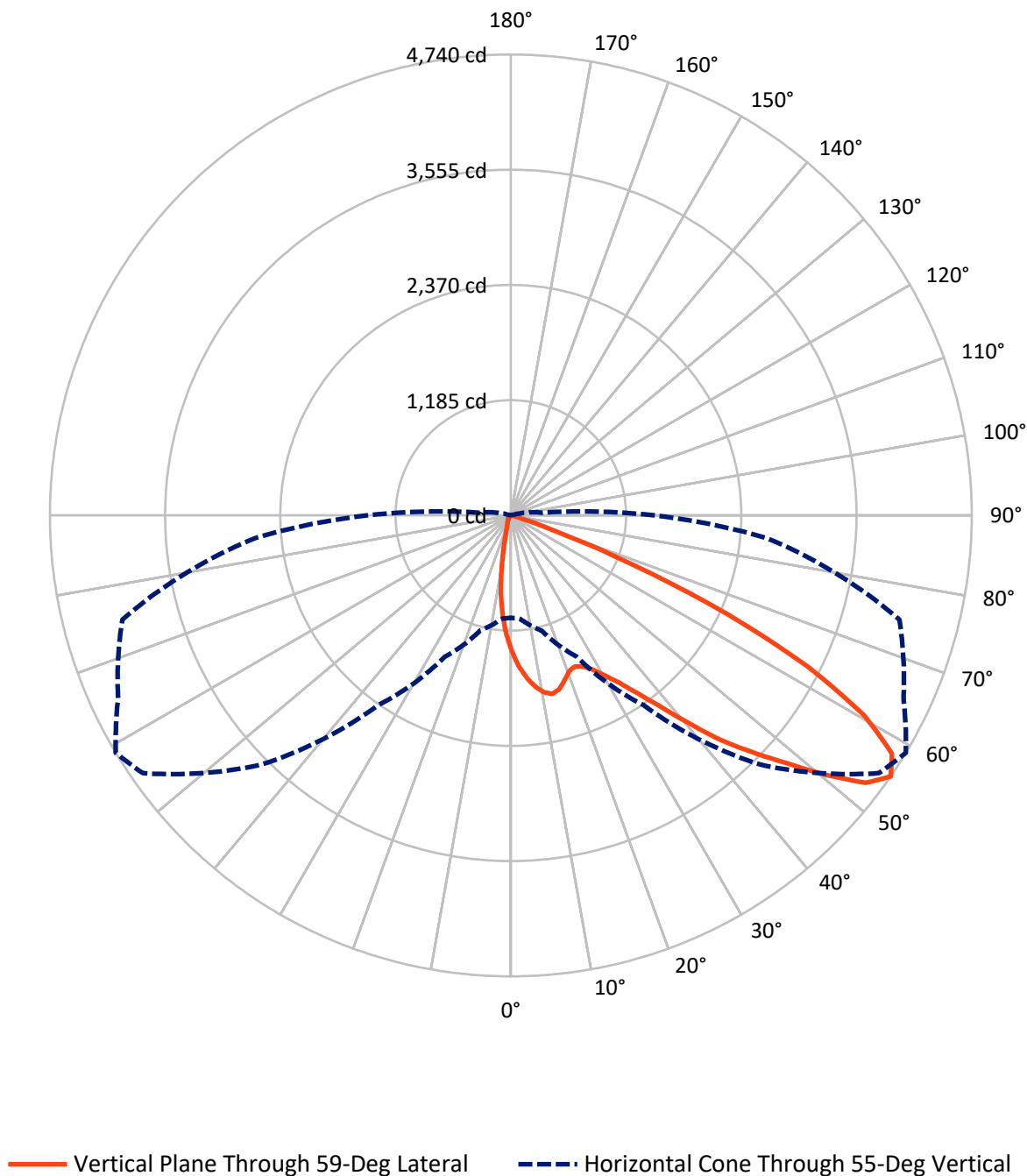


Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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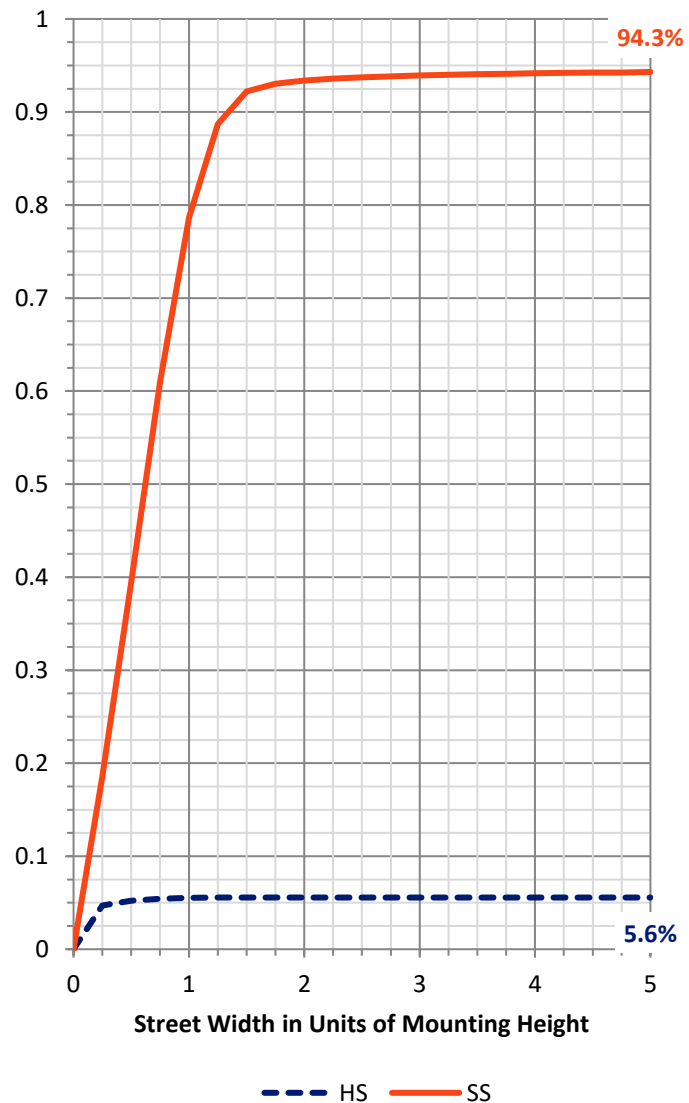
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	277.0	0.0	277.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	4682.4	0.0	4682.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	4959.4	0.0	4959.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	2.4
10°-20°	280.0	5.6
20°-30°	476.4	9.6
30°-40°	819.3	16.5
40°-50°	1264.9	25.5
50°-60°	1271.7	25.6
60°-70°	652.1	13.1
70°-80°	70.7	1.4
80°-90°	7.4	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°	4959.4	100.0
0°-180°	4959.4	100.0

Coefficient of Utilization



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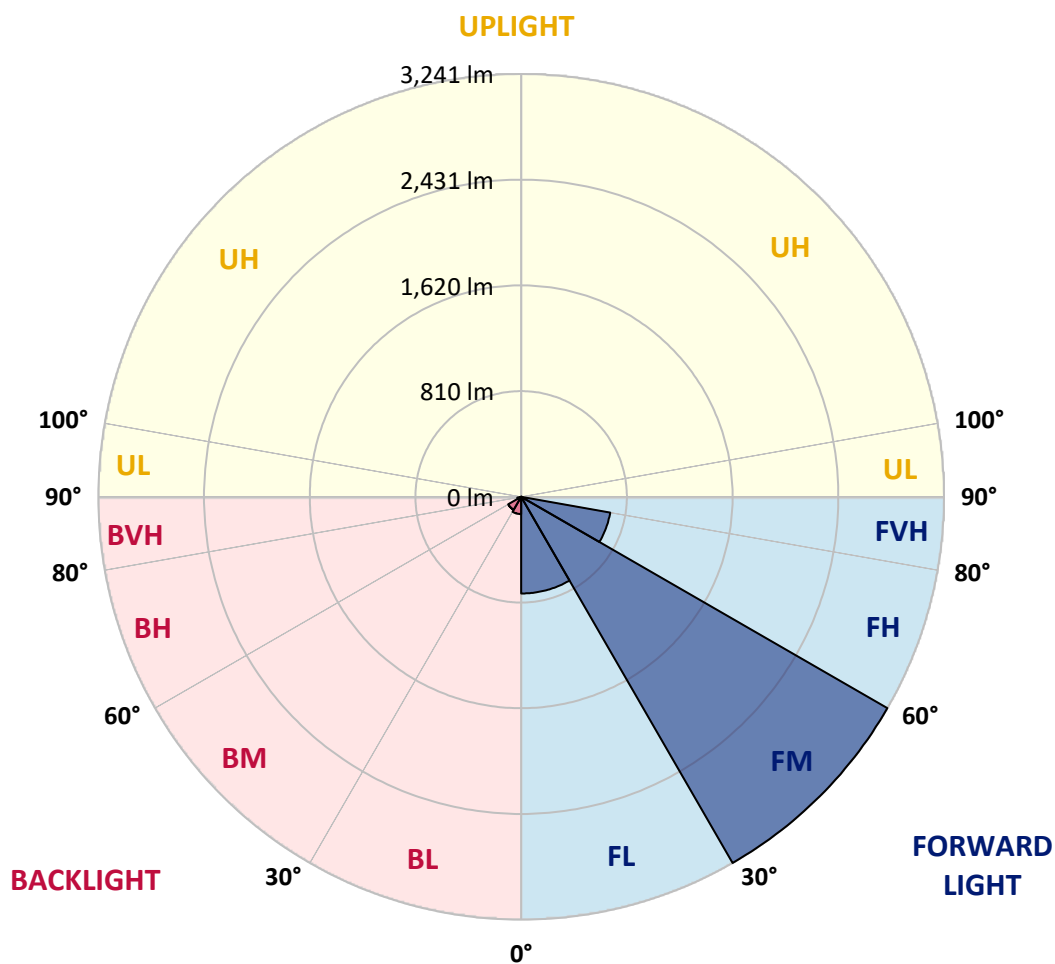
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	741.1	14.9			
FM	(30°-60°)	3241.0	65.3			
FH	(60°-80°)	693.1	14.0			G1/1800
FVH	(80°-90°)	7.2	0.1			G0/10
BL	(0°-30°)	132.2	2.7	B1/500		
BM	(30°-60°)	115.0	2.3	B0/220		
BH	(60°-80°)	29.7	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1
2.5°	1651.9	1634.2	1629.0	1625.6	1609.5	1589.2	1561.8	1548.9	1522.4	1480.0	1427.9
5°	1803.2	1799.9	1788.3	1781.8	1764.5	1735.9	1692.0	1670.8	1629.0	1557.7	1464.2
7.5°	1737.1	1757.3	1773.3	1800.3	1834.2	1833.0	1796.2	1774.2	1727.4	1633.1	1504.7
10°	1481.6	1498.0	1524.2	1585.4	1710.2	1820.1	1863.4	1847.6	1810.3	1702.5	1543.6
12.5°	1431.4	1429.7	1434.5	1452.3	1517.5	1674.4	1852.0	1883.9	1876.3	1766.0	1580.5
15°	1458.0	1456.1	1455.4	1461.6	1477.4	1543.6	1766.2	1858.0	1916.8	1824.8	1611.7
17.5°	1532.8	1524.0	1519.3	1514.4	1509.6	1526.0	1663.3	1785.0	1922.9	1876.3	1637.8
20°	1660.6	1646.1	1628.7	1600.6	1574.3	1566.1	1620.0	1710.2	1901.0	1915.5	1654.8
22.5°	1821.4	1802.5	1772.7	1721.5	1668.0	1636.9	1641.4	1686.4	1868.1	1958.2	1662.8
25°	2002.0	1977.9	1938.2	1866.9	1788.3	1733.2	1704.5	1720.3	1853.3	2008.3	1671.7
27.5°	2195.4	2168.7	2116.6	2019.7	1930.5	1856.2	1797.6	1795.5	1878.6	2073.8	1686.4
30°	2387.1	2382.9	2315.0	2212.6	2094.4	2003.9	1919.7	1908.8	1949.9	2164.6	1715.4
32.5°	2642.9	2612.1	2529.0	2423.6	2287.3	2178.7	2078.9	2053.7	2058.9	2270.2	1760.1
35°	2965.3	2931.7	2814.7	2669.3	2516.7	2388.6	2278.2	2244.0	2231.1	2443.3	1835.6
37.5°	3173.8	3173.3	3099.7	2951.7	2788.0	2646.6	2526.7	2486.6	2460.5	2652.2	1952.7
40°	3179.3	3193.0	3202.7	3201.3	3084.8	2954.5	2848.0	2798.6	2737.9	2931.3	2104.0
42.5°	3008.8	3044.1	3129.2	3273.9	3343.0	3291.1	3201.3	3152.7	3062.5	3230.2	2288.4
45°	2778.1	2802.6	2951.7	3218.0	3482.8	3624.8	3556.3	3469.3	3350.6	3541.9	2453.8
47.5°	2674.8	2679.1	2775.5	3067.8	3493.4	3898.1	3939.6	3798.4	3612.3	3793.1	2583.2
50°	2366.0	2374.0	2506.8	2807.7	3369.8	4027.2	4324.9	4190.9	3897.6	3986.5	2630.2
52.5°	1783.2	1794.4	1962.9	2380.0	3030.3	3972.1	4600.6	4568.2	4210.1	4081.1	2632.9
55°	1052.2	1066.7	1227.8	1602.0	2383.6	3622.1	4621.1	4740.4	4456.9	4137.0	2628.8
57.5°	491.5	501.7	593.8	825.4	1482.5	2862.7	4312.6	4622.1	4592.9	4166.5	2657.7
60°	261.0	264.0	286.2	357.3	670.0	1815.1	3710.4	4173.9	4468.9	4207.5	2693.2
62.5°	199.7	200.5	199.3	207.8	281.6	805.7	2804.7	3431.3	3969.3	4176.8	2654.0
65°	173.0	174.5	166.2	164.2	180.6	287.4	1666.1	2445.8	3119.1	3762.0	2386.7
67.5°	155.0	155.6	145.7	137.4	140.1	155.3	657.4	1339.1	2064.6	2757.5	1730.0
70°	142.8	142.2	131.4	117.9	114.2	106.2	208.9	490.8	986.6	1398.4	804.5
72.5°	126.4	126.8	121.5	103.9	94.9	74.3	96.8	143.1	294.5	381.2	188.5
75°	112.1	110.6	104.3	93.1	78.2	48.9	48.0	63.8	90.6	90.1	40.7
77.5°	81.0	79.6	81.7	76.4	59.9	31.6	24.1	30.7	36.9	35.8	11.4
80°	59.4	58.5	52.7	63.5	53.0	21.6	14.9	16.3	19.0	16.1	3.6
82.5°	40.7	40.5	37.2	35.2	30.2	13.1	9.3	10.2	12.2	9.1	1.7
85°	6.5	7.4	26.9	21.4	17.8	5.8	6.5	7.0	8.2	5.0	0.5
87.5°	0.0	0.0	12.5	11.0	3.6	2.3	3.9	4.1	4.1	2.6	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°	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1
2.5°	1401.4	1372.0	1318.0	1261.9	1210.1	1148.5	1106.1	1074.2	1037.3	1027.3	1049.0
5°	1411.0	1355.7	1239.2	1112.5	993.3	861.4	760.3	680.5	608.2	583.5	605.8
7.5°	1426.1	1344.0	1154.1	945.3	738.1	532.1	391.0	298.2	239.0	221.5	231.0
10°	1441.4	1326.9	1055.4	747.5	464.2	259.0	168.6	134.7	122.0	119.5	120.9
12.5°	1453.9	1304.2	935.0	531.4	248.2	138.7	110.3	104.8	103.0	103.0	103.7
15°	1461.6	1269.7	792.6	338.0	142.8	104.8	96.3	94.5	94.5	94.9	95.4
17.5°	1460.7	1225.7	636.5	204.5	106.8	92.7	87.9	86.3	86.1	86.6	87.0
20°	1450.0	1168.3	480.0	134.9	93.1	84.6	79.6	77.0	76.6	77.3	77.9
22.5°	1429.5	1097.5	343.3	103.9	84.0	76.6	70.5	68.2	68.2	68.8	69.3
25°	1404.5	1011.0	234.7	88.2	75.7	68.2	62.3	60.2	60.8	62.3	62.6
27.5°	1373.5	913.4	159.4	75.5	65.8	59.6	55.3	53.9	55.3	57.3	57.9
30°	1346.9	811.9	113.8	65.2	56.0	51.6	48.9	48.9	50.9	54.7	55.7
32.5°	1326.3	713.6	87.9	57.6	48.6	44.7	43.3	44.7	48.0	51.8	52.7
35°	1323.7	632.4	74.3	51.6	43.3	39.5	38.9	41.5	44.7	47.7	48.2
37.5°	1344.0	557.6	67.1	46.5	38.6	35.2	34.6	37.8	41.0	44.5	45.4
40°	1382.3	498.6	61.8	41.9	34.9	31.0	29.9	32.2	36.7	41.2	42.4
42.5°	1432.1	450.1	56.0	37.2	31.0	25.7	24.3	26.9	31.6	36.7	38.1
45°	1479.5	408.3	49.4	31.9	26.1	19.9	19.4	22.8	25.2	30.2	31.4
47.5°	1505.5	371.4	43.8	26.1	20.2	16.1	16.1	17.0	19.4	25.2	26.3
50°	1496.8	341.9	38.1	19.4	14.1	12.2	12.2	11.9	15.5	20.2	21.1
52.5°	1479.1	324.8	32.8	14.9	9.6	8.8	7.9	8.8	10.8	12.8	13.1
55°	1476.5	322.0	27.5	11.9	6.7	5.8	4.4	4.4	4.4	4.1	3.6
57.5°	1497.0	326.7	23.1	9.6	5.0	3.9	2.3	0.0	0.0	0.0	0.0
60°	1518.0	331.7	19.9	6.7	3.6	2.1	0.3	0.0	0.0	0.0	0.0
62.5°	1483.0	320.4	16.7	4.1	2.6	0.9	0.0	0.0	0.0	0.0	0.0
65°	1302.7	272.7	13.1	3.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	926.6	182.6	8.8	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	422.9	76.4	5.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	90.4	23.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.4	17.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.8	27.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.6	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	3.0	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)