

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: P199984

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-SL4-7030-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1050mA 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: 9751.4 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - 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



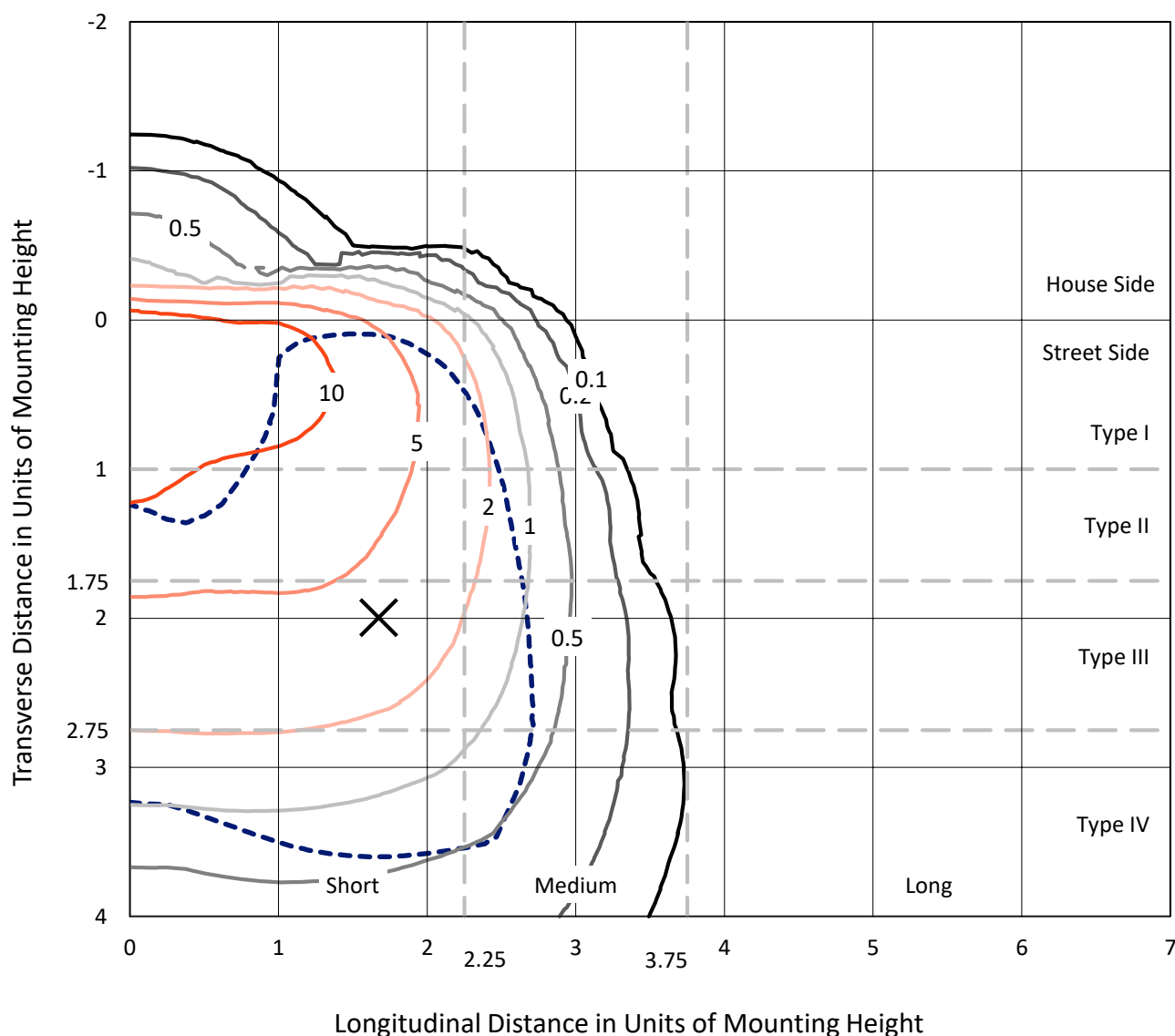
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

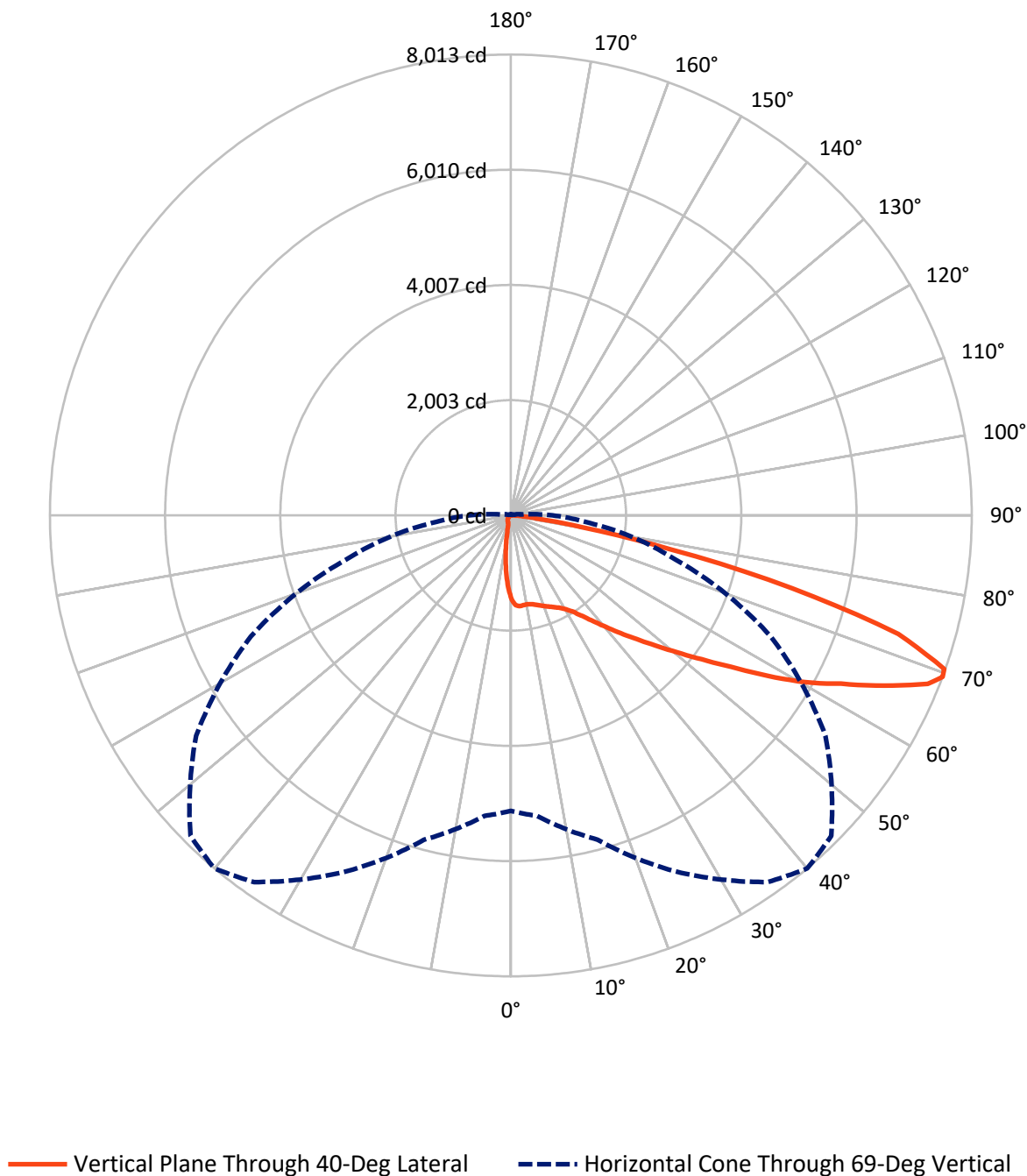


Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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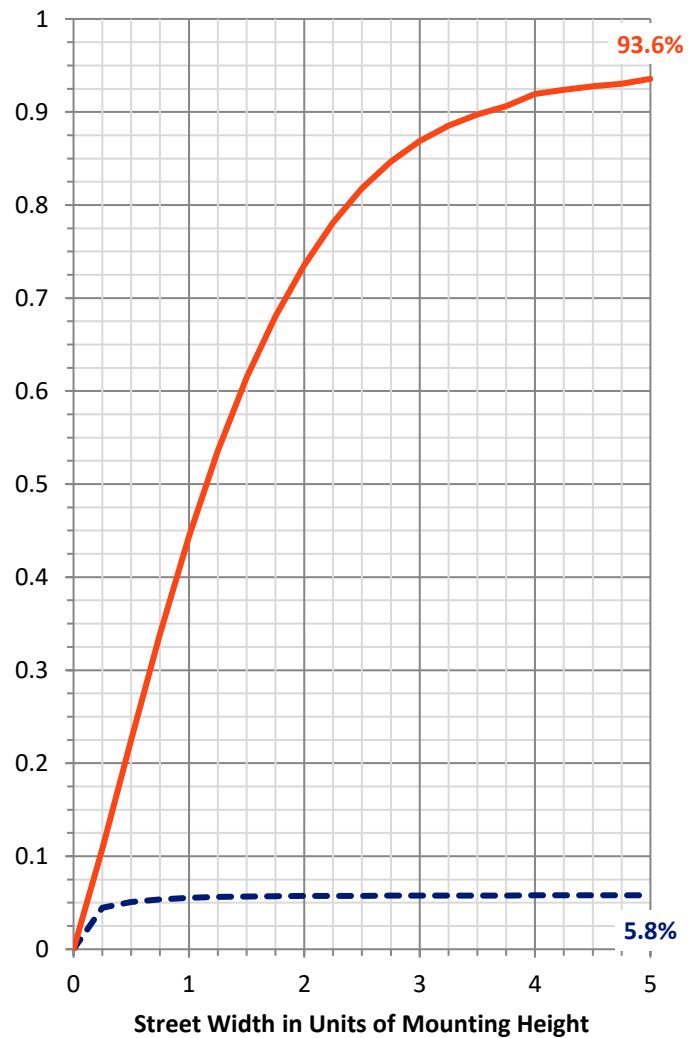
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	570.5	0.0	570.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	9180.9	0.0	9180.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	9751.4	0.0	9751.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	1.2
10°-20°	290.5	3.0
20°-30°	489.3	5.0
30°-40°	801.0	8.2
40°-50°	1386.9	14.2
50°-60°	2184.5	22.4
60°-70°	2852.9	29.3
70°-80°	1469.3	15.1
80°-90°	158.9	1.6
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°	9751.4	100.0
0°-180°	9751.4	100.0

Coefficient of Utilization



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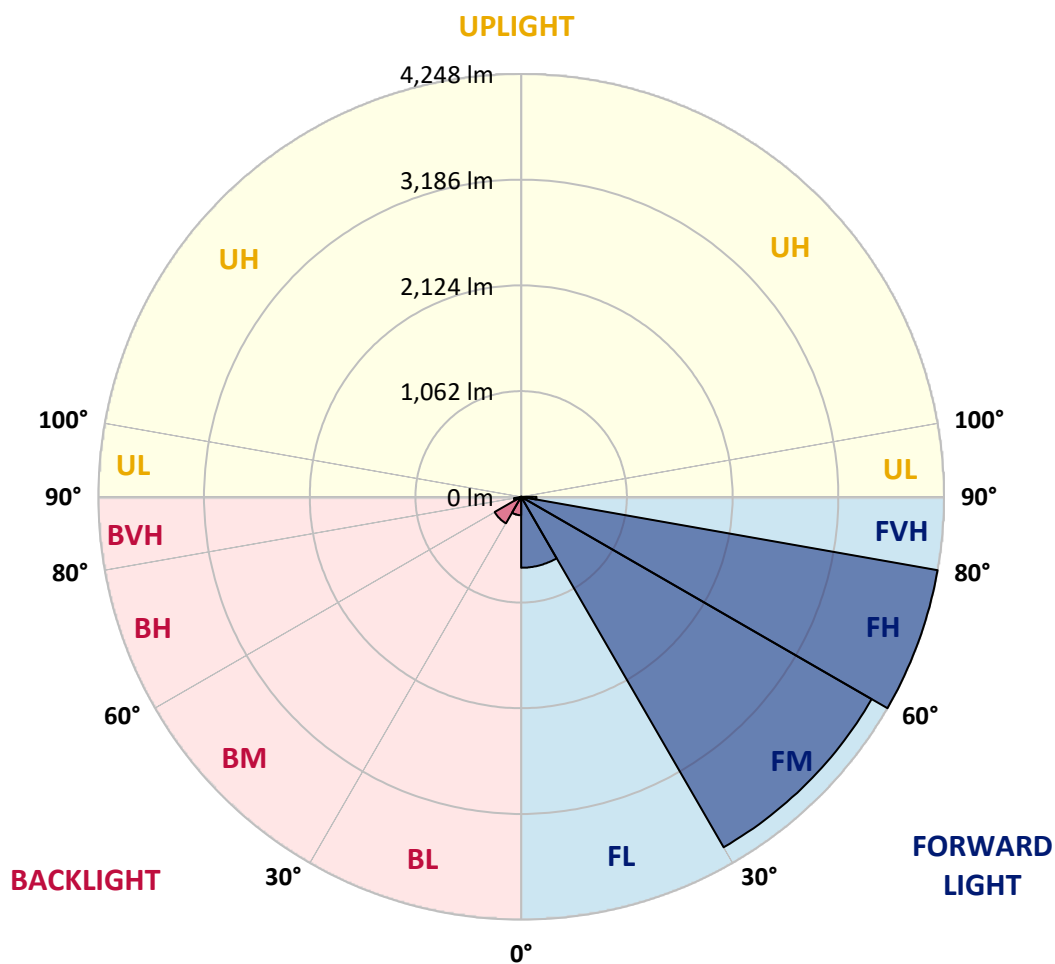
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	713.1	7.3			
FM	(30°-60°)	4065.7	41.7			
FH	(60°-80°)	4248.1	43.6			G2/5000
FVH	(80°-90°)	154.0	1.6			G2/225
BL	(0°-30°)	184.8	1.9	B1/500		
BM	(30°-60°)	306.6	3.1	B1/1000		
BH	(60°-80°)	74.1	0.8	B0/110		G0/110
BVH	(80°-90°)	5.0	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°	40°	45°	55°	65°	75°	85°
0°	1456.9	1456.9	1456.9	1456.9	1456.9	1456.9	1456.9	1456.9	1456.9	1456.9	1456.9
2.5°	1599.7	1591.1	1585.8	1578.8	1570.0	1562.5	1559.6	1538.2	1517.8	1490.0	1458.1
5°	1629.3	1626.5	1617.1	1607.9	1597.4	1585.8	1579.4	1553.8	1524.8	1484.2	1428.4
7.5°	1632.3	1628.7	1617.1	1604.4	1589.8	1575.8	1564.9	1539.4	1512.5	1471.4	1403.6
10°	1627.5	1623.5	1614.8	1600.8	1582.8	1569.5	1558.5	1534.1	1511.5	1474.4	1398.8
12.5°	1622.3	1618.2	1614.2	1607.2	1591.6	1582.3	1573.0	1549.8	1529.4	1498.2	1415.7
15°	1627.5	1625.2	1629.9	1627.0	1618.2	1610.2	1600.8	1580.0	1561.5	1535.3	1446.5
17.5°	1649.6	1649.6	1664.1	1665.8	1657.8	1646.1	1632.8	1611.9	1596.2	1574.2	1482.9
20°	1701.2	1699.5	1718.1	1721.6	1701.8	1683.9	1664.1	1638.6	1626.5	1612.4	1519.0
22.5°	1790.1	1781.9	1793.0	1789.4	1750.7	1722.8	1698.3	1667.1	1660.6	1654.3	1559.0
25°	1905.6	1900.9	1908.5	1874.3	1805.7	1768.1	1739.0	1703.6	1703.6	1710.0	1604.4
27.5°	2073.3	2055.9	2030.4	1970.1	1867.2	1819.0	1787.8	1750.0	1759.9	1783.6	1664.1
30°	2245.2	2225.9	2167.3	2074.5	1942.2	1891.6	1855.1	1815.7	1838.9	1882.3	1744.3
32.5°	2414.6	2393.1	2310.2	2193.0	2049.4	1999.0	1963.6	1920.1	1959.0	2032.1	1861.4
35°	2578.8	2559.7	2464.1	2325.8	2192.3	2150.5	2118.0	2080.3	2130.2	2232.3	2026.9
37.5°	2763.5	2742.6	2625.9	2476.2	2365.9	2335.8	2311.9	2274.1	2361.2	2511.0	2257.3
40°	2990.4	2955.0	2797.7	2648.6	2566.7	2552.2	2535.9	2530.8	2665.9	2873.2	2564.5
42.5°	3250.5	3192.4	2977.7	2830.3	2787.3	2797.7	2793.6	2816.9	3047.3	3323.5	2938.2
45°	3510.5	3435.6	3178.0	3024.1	3029.9	3066.5	3089.1	3181.9	3525.0	3840.3	3340.5
47.5°	3731.1	3657.4	3370.0	3233.6	3303.4	3375.2	3436.7	3612.6	4016.1	4348.6	3653.3
50°	3919.6	3850.1	3573.8	3464.1	3620.8	3736.8	3836.7	4097.3	4544.3	4735.9	3872.7
52.5°	4074.2	4027.8	3785.1	3728.2	3983.6	4153.6	4299.9	4612.2	5012.2	5050.4	4043.3
55°	4224.4	4191.4	4012.0	4042.1	4409.6	4641.3	4826.4	5158.3	5414.9	5312.7	4207.0
57.5°	4397.4	4367.2	4270.8	4440.4	4969.7	5261.2	5463.1	5642.4	5769.6	5581.0	4361.4
60°	4573.9	4556.4	4558.8	4882.7	5612.8	5892.7	6004.2	6050.6	6117.9	5833.5	4370.2
62.5°	4742.2	4775.2	4887.9	5374.9	6228.8	6443.4	6499.9	6545.6	6466.7	5873.4	4037.5
65°	5027.2	5081.2	5349.9	6033.8	6906.1	7135.9	7193.9	7036.8	6521.8	5355.8	3284.2
67.5°	5166.6	5265.2	5744.7	6647.8	7563.2	7818.6	7797.1	7068.6	5852.6	4084.0	2107.6
69°	5137.5	5242.6	5835.7	6835.8	7781.5	8013.0	7876.6	6677.9	4985.9	2958.5	1293.8
70°	5022.5	5128.7	5788.8	6828.9	7809.3	7992.7	7729.1	6195.6	4215.8	2163.4	809.2
72.5°	4194.3	4286.0	5139.2	6172.4	7193.9	7044.8	6466.1	4292.4	2054.2	589.1	182.3
75°	2581.8	2632.9	3687.5	4650.0	5433.5	5050.4	4308.0	2135.5	612.4	166.6	100.9
77.5°	1364.0	1387.3	2018.8	2740.9	3444.3	2849.9	2208.0	832.9	282.1	104.5	73.1
80°	806.3	823.6	1087.1	1253.2	1490.7	1245.0	882.9	511.4	202.0	65.5	65.0
82.5°	461.4	472.4	788.2	696.5	587.4	501.5	439.4	484.7	121.3	44.1	67.3
85°	169.5	171.9	443.5	529.9	349.4	207.8	218.3	401.6	32.6	27.9	52.8
87.5°	79.0	77.2	228.2	324.5	204.4	131.7	170.1	88.3	12.8	18.0	14.5
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°	1456.9	1456.9	1456.9	1456.9	1456.9	1456.9	1456.9	1456.9	1456.9	1456.9	1456.9
2.5°	1439.5	1417.9	1379.2	1339.1	1298.4	1267.1	1236.4	1212.0	1203.8	1188.7	1190.0
5°	1395.4	1355.9	1274.6	1192.2	1106.4	1035.6	968.8	914.8	888.6	861.9	861.9
7.5°	1357.1	1299.6	1172.5	1038.4	899.6	783.1	678.0	599.1	555.5	520.6	520.1
10°	1342.6	1264.7	1087.1	895.1	701.8	542.7	417.9	337.8	296.6	269.9	268.8
12.5°	1349.0	1252.5	1021.6	762.7	520.1	348.9	242.0	190.4	172.9	164.9	164.9
15°	1367.5	1249.2	956.0	633.2	367.4	218.3	160.8	146.9	145.7	145.7	145.7
17.5°	1390.1	1250.3	888.6	507.3	250.2	156.1	138.8	137.0	138.1	138.1	138.1
20°	1413.4	1250.8	816.0	390.6	176.5	135.8	130.6	130.0	131.2	131.2	131.7
22.5°	1441.7	1253.8	743.5	291.9	145.7	128.3	124.2	124.2	124.8	124.8	124.2
25°	1474.4	1259.5	668.1	216.6	133.0	123.0	119.5	119.0	119.5	119.0	118.4
27.5°	1515.0	1267.7	583.9	169.5	127.1	117.8	114.9	114.9	114.4	113.7	113.2
30°	1566.0	1277.0	489.3	144.0	121.3	113.2	110.3	109.7	109.2	107.9	107.9
32.5°	1643.8	1297.2	395.8	130.6	114.9	106.8	104.5	104.5	103.4	102.1	101.6
35°	1763.3	1337.4	312.3	122.5	107.9	99.9	96.9	96.9	95.8	95.2	94.6
37.5°	1928.8	1398.3	242.7	114.9	100.9	92.4	89.4	88.8	87.6	86.6	85.9
40°	2148.8	1473.7	190.9	107.9	94.1	84.7	82.4	81.3	79.0	77.2	77.2
42.5°	2425.1	1559.6	154.9	100.4	85.9	77.8	76.1	74.3	70.3	68.5	68.0
45°	2714.1	1636.8	131.2	91.7	77.8	70.8	69.7	66.7	61.5	59.8	59.8
47.5°	2922.5	1654.8	115.5	83.6	70.3	63.3	62.8	57.5	52.8	51.7	51.2
50°	3052.6	1619.4	102.7	75.5	63.3	56.3	54.5	48.2	45.3	44.1	43.4
52.5°	3140.2	1556.2	92.4	68.5	57.0	49.9	45.9	41.2	38.9	37.7	37.7
55°	3210.5	1466.8	81.8	62.1	51.7	44.7	38.9	35.4	33.1	31.9	31.9
57.5°	3230.1	1345.4	71.3	57.0	46.4	39.5	33.1	30.8	27.9	27.4	27.4
60°	3086.8	1126.7	63.3	50.5	41.8	34.2	29.1	26.1	23.3	22.6	22.1
62.5°	2709.0	871.8	55.7	44.7	36.6	29.6	24.9	21.6	19.1	19.1	19.1
65°	2066.4	584.5	48.7	38.9	31.9	24.9	21.6	17.4	16.3	16.3	16.8
67.5°	1237.0	318.1	41.8	33.1	27.4	20.9	18.0	15.1	14.5	15.1	15.1
69°	724.9	187.0	37.7	29.6	23.8	18.6	15.7	13.3	14.5	15.1	15.1
70°	447.5	125.9	34.9	26.7	21.6	16.8	14.5	12.8	13.9	14.5	14.5
72.5°	124.8	65.0	27.9	20.9	17.4	13.9	11.6	11.6	13.3	13.9	13.9
75°	81.3	48.2	21.6	15.7	13.3	11.0	9.9	11.0	12.8	13.3	13.3
77.5°	67.3	39.5	17.4	12.8	11.0	10.5	9.3	9.9	11.6	12.2	12.2
80°	61.5	27.9	13.9	11.6	9.9	9.3	8.7	8.0	10.5	11.0	11.0
82.5°	58.7	22.1	12.2	10.5	9.3	8.0	7.5	8.0	9.3	9.9	10.5
85°	36.6	14.5	11.0	9.9	8.0	7.5	7.5	7.5	8.7	9.3	9.3
87.5°	13.3	11.6	9.9	8.0	7.0	7.0	7.0	7.0	7.5	8.7	8.7
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)