

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: P286971

Luminaire Tested: **USSL-C027-D-U-T4-AP-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C027-D-U-T4-AP-7030
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13673.8 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 96
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

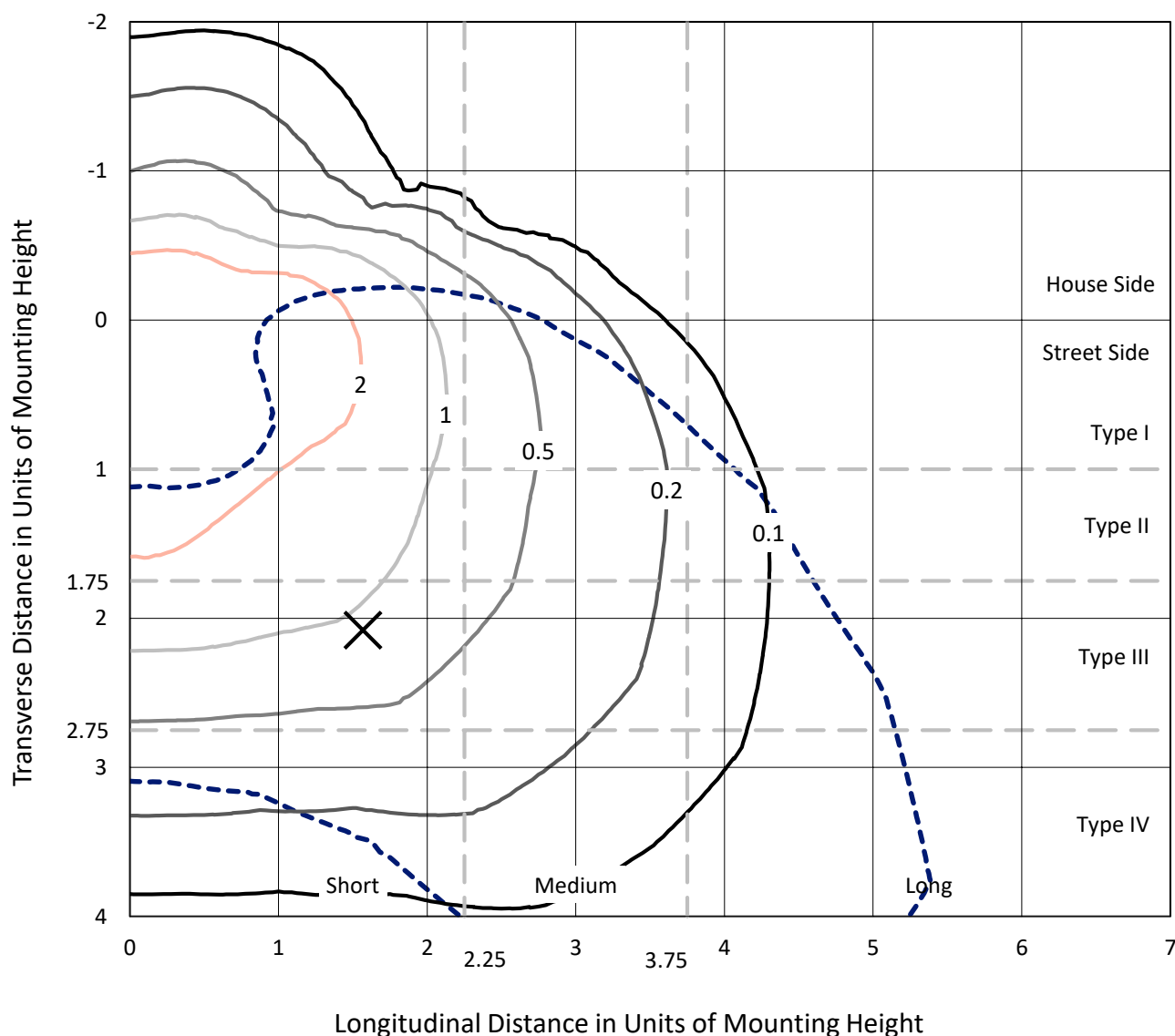


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

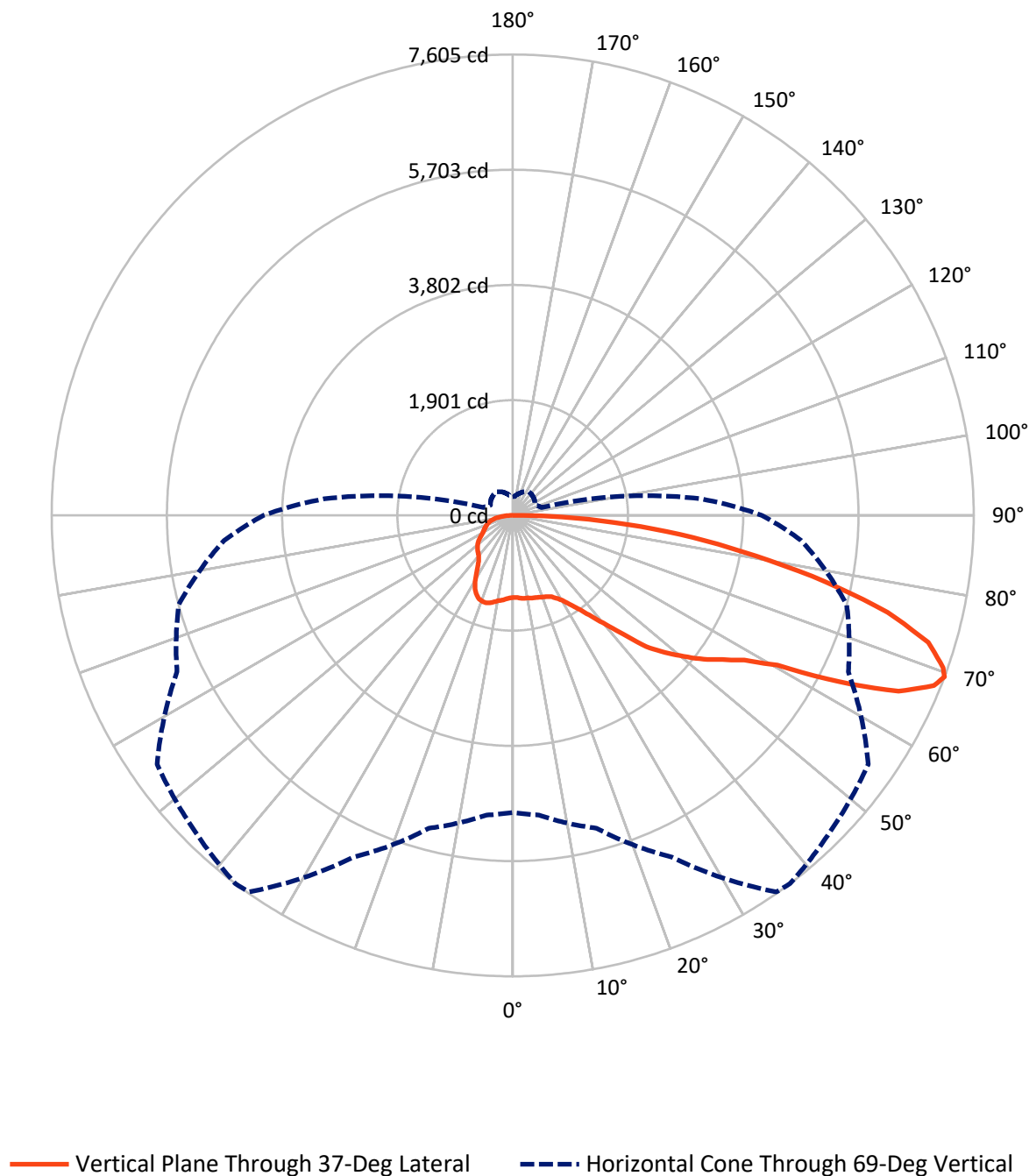


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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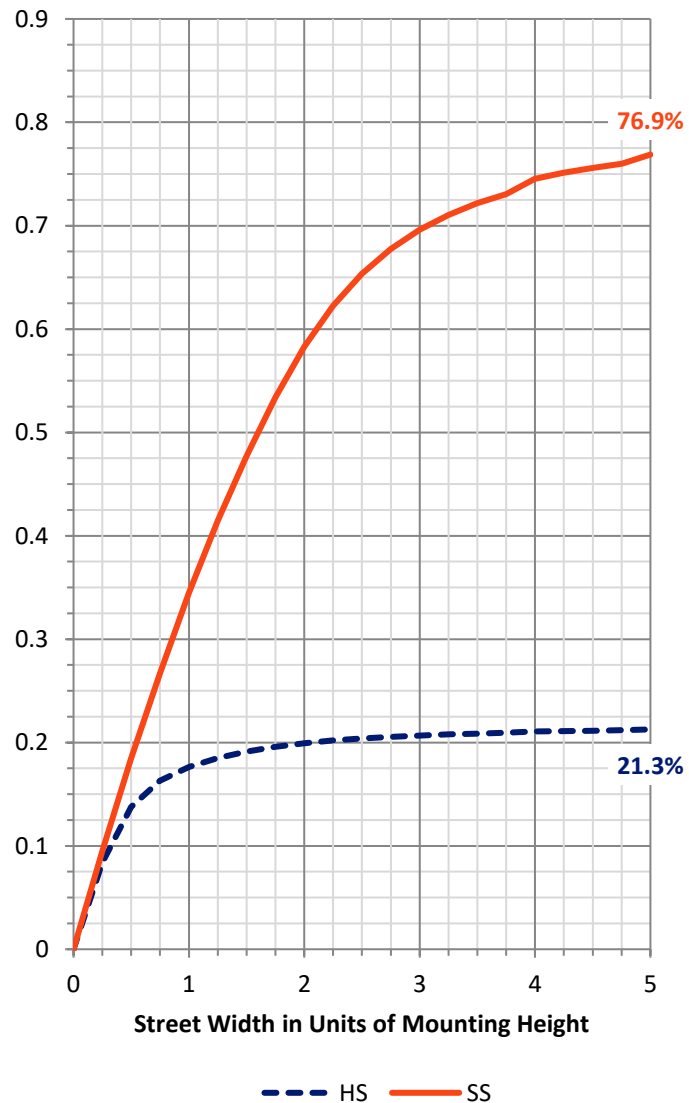
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2948.5	0.0	2948.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10725.3	0.0	10725.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	13673.8	0.0	13673.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	1.0
10°-20°	413.2	3.0
20°-30°	705.9	5.2
30°-40°	1119.1	8.2
40°-50°	1901.6	13.9
50°-60°	2696.1	19.7
60°-70°	3430.9	25.1
70°-80°	2633.0	19.3
80°-90°	641.8	4.7
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°	13673.8	100.0
0°-180°	13673.8	100.0

Coefficient of Utilization



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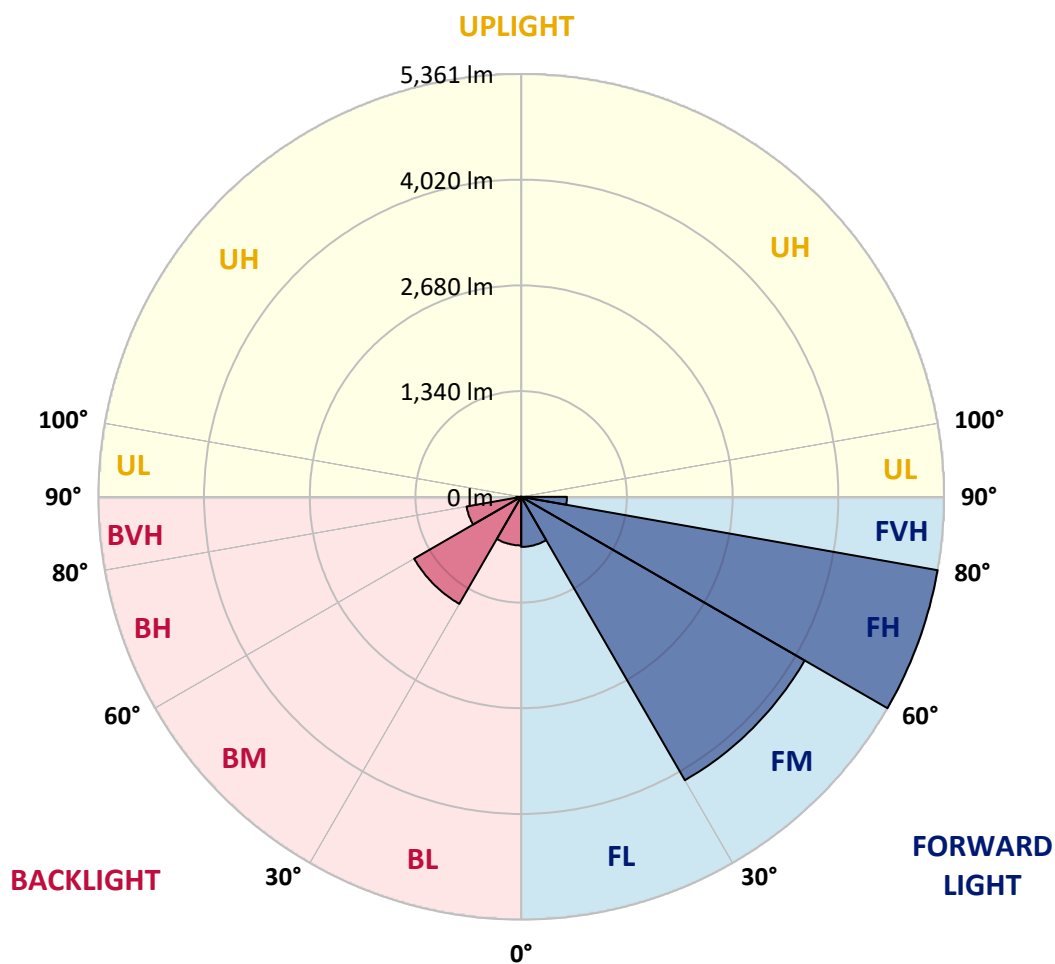
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	634.7	4.6			
FM	(30°-60°)	4149.8	30.3			
FH	(60°-80°)	5360.7	39.2			G3/7500
FVH	(80°-90°)	580.1	4.2			G4/750
BL	(0°-30°)	616.6	4.5	B2/1000		
BM	(30°-60°)	1567.0	11.5	B2/2500		
BH	(60°-80°)	703.3	5.1	B2/1000		G2/1000
BVH	(80°-90°)	61.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1380.2	1372.9	1372.9	1357.4	1357.4	1356.0	1359.4	1351.4	1350.0	1348.7	1344.0
5°	1397.7	1394.9	1385.6	1374.2	1379.6	1372.1	1372.1	1361.4	1362.1	1360.8	1353.4
7.5°	1393.7	1398.3	1397.7	1384.2	1380.2	1382.2	1382.9	1383.6	1376.8	1376.2	1370.9
10°	1406.4	1401.7	1403.7	1382.9	1388.3	1383.6	1390.9	1390.3	1390.3	1390.3	1384.2
12.5°	1379.6	1384.9	1386.9	1390.3	1400.3	1400.3	1412.4	1417.1	1427.2	1433.8	1425.8
15°	1372.1	1367.5	1386.9	1384.9	1408.4	1406.4	1425.8	1452.0	1460.6	1478.8	1483.5
17.5°	1368.1	1377.6	1392.3	1391.6	1414.4	1419.1	1445.9	1475.5	1500.3	1530.4	1541.2
20°	1379.6	1379.6	1394.9	1401.7	1436.6	1436.6	1464.7	1501.6	1540.5	1584.8	1607.6
22.5°	1415.7	1417.1	1431.2	1423.8	1445.9	1454.0	1478.1	1519.7	1580.1	1628.3	1675.3
25°	1436.6	1444.6	1461.4	1459.4	1480.8	1486.8	1515.7	1569.3	1634.4	1698.1	1776.6
27.5°	1484.8	1485.6	1498.9	1494.9	1545.9	1548.5	1574.7	1615.6	1710.1	1783.3	1893.3
30°	1554.6	1558.6	1567.3	1579.4	1632.4	1629.7	1647.1	1701.5	1792.7	1891.3	2040.8
32.5°	1706.1	1697.4	1686.7	1688.7	1741.0	1755.8	1789.3	1853.7	1966.3	2085.8	2247.4
35°	1964.3	1959.0	1920.1	1874.5	1892.6	1910.0	1965.1	2088.4	2262.1	2542.5	2686.6
37.5°	2301.7	2317.8	2244.7	2147.5	2107.9	2111.9	2162.8	2329.9	2613.5	3143.3	3234.6
40°	2728.9	2704.8	2614.9	2484.8	2384.9	2364.1	2380.1	2594.1	3006.5	3673.2	3690.7
42.5°	3040.7	3044.1	2942.2	2847.6	2716.8	2677.9	2651.1	2853.7	3413.0	4081.7	4019.9
45°	3402.3	3428.4	3317.1	3219.9	3128.0	3087.7	3047.4	3171.5	3833.4	4406.2	4300.2
47.5°	3708.7	3713.5	3570.0	3497.5	3395.5	3377.5	3338.6	3457.9	4175.5	4661.1	4516.2
50°	3993.1	4042.0	3855.6	3752.4	3667.1	3655.8	3669.8	3782.5	4508.8	4881.7	4690.6
52.5°	4481.4	4406.2	4188.3	3993.8	3940.8	3941.5	3938.8	4122.5	4853.6	5067.5	4834.1
55°	4931.4	4785.1	4544.4	4325.8	4196.4	4197.6	4220.4	4445.1	5139.2	5246.5	4932.0
57.5°	5213.0	5293.5	5072.9	4744.9	4500.1	4504.2	4503.5	4746.9	5384.7	5404.1	5007.8
60°	5624.1	5720.1	5662.4	5416.2	5087.6	5015.1	4832.1	5087.6	5636.9	5555.0	5088.3
62.5°	5924.6	5995.6	6156.0	6018.4	6037.3	6044.6	5469.2	5475.9	5817.3	5679.8	5105.8
65°	5925.3	5923.9	6296.1	6467.8	6915.1	6992.9	6750.8	6012.5	5988.3	5699.9	5038.7
67.5°	5359.2	5394.1	5785.8	6423.5	7435.6	7493.9	7339.0	6860.8	6076.8	5722.7	4930.0
69°	4901.8	4963.5	5342.4	6219.7	7583.2	7604.6	7395.3	7159.9	6109.1	5703.3	4778.5
70°	4599.3	4602.1	4988.3	5968.2	7508.6	7532.8	7391.3	7210.9	6081.5	5648.3	4659.1
72.5°	3629.6	3667.8	4009.8	5070.1	7143.2	7166.6	7117.7	7076.7	6042.0	5404.9	4007.2
75°	2653.8	2679.3	2991.8	3971.7	6246.5	6388.0	6602.6	6832.0	5630.2	4647.7	3016.6
77.5°	1861.1	1894.6	2216.6	3014.6	5087.6	5282.1	5765.6	5980.3	4770.4	3640.3	1682.1
80°	1242.7	1284.3	1576.7	2245.4	3873.1	4071.6	4630.9	4723.4	3649.0	2183.7	333.3
82.5°	790.7	801.4	1034.1	1586.8	2880.5	2994.5	3197.0	3003.2	1934.2	497.6	98.6
85°	461.4	480.9	625.8	995.9	1775.9	1906.0	1994.5	1490.2	467.4	67.1	53.0
87.5°	173.7	181.8	253.5	430.5	831.0	818.2	794.1	503.0	83.8	30.8	24.2
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°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1343.3	1355.4	1349.4	1346.7	1345.3	1352.0	1364.8	1361.4	1359.4	1381.6	1383.6
5°	1353.4	1370.1	1369.5	1372.1	1368.1	1376.2	1382.2	1384.2	1386.2	1409.8	1413.1
7.5°	1372.1	1379.6	1382.2	1392.9	1386.9	1399.7	1410.4	1399.7	1409.8	1426.5	1429.8
10°	1388.9	1400.3	1401.0	1417.7	1411.8	1423.8	1426.5	1426.5	1434.6	1454.0	1450.7
12.5°	1429.2	1429.8	1453.3	1454.6	1462.7	1462.0	1456.6	1441.3	1433.8	1460.0	1462.0
15°	1487.6	1494.9	1525.1	1523.1	1513.0	1507.6	1484.8	1446.7	1424.5	1420.5	1420.5
17.5°	1557.9	1560.0	1598.9	1590.8	1574.7	1539.8	1502.3	1434.6	1372.1	1352.0	1339.9
20°	1615.6	1632.4	1680.0	1652.5	1624.3	1568.0	1485.6	1392.3	1295.7	1246.8	1234.0
22.5°	1694.0	1726.9	1754.5	1714.2	1655.1	1573.3	1464.7	1330.6	1203.8	1127.4	1114.0
25°	1805.4	1824.2	1822.8	1753.1	1659.9	1556.6	1405.0	1243.4	1088.5	1004.7	979.9
27.5°	1920.1	1933.5	1877.2	1782.6	1643.8	1509.0	1327.2	1129.4	971.8	896.7	877.9
30°	2050.2	2036.8	1919.4	1769.8	1601.5	1425.1	1217.9	1003.9	870.5	804.1	794.1
32.5°	2250.7	2181.7	1957.0	1740.4	1525.1	1309.8	1084.5	914.1	804.8	727.0	713.6
35°	2598.8	2452.6	2024.1	1714.2	1432.6	1180.3	969.8	851.7	746.5	654.6	637.1
37.5°	3048.8	2816.0	2150.1	1669.2	1323.2	1054.3	896.7	799.4	702.2	600.2	580.8
40°	3490.1	3196.3	2319.8	1624.3	1219.9	968.4	855.1	778.6	684.7	580.1	559.3
42.5°	3812.0	3500.8	2504.9	1581.4	1120.0	901.3	834.2	772.6	685.4	583.5	564.0
45°	4054.8	3742.3	2692.7	1522.4	1003.3	849.7	814.9	766.5	684.7	586.9	562.7
47.5°	4268.7	3900.5	2822.1	1444.6	892.6	809.4	791.4	743.7	667.9	572.8	552.0
50°	4419.7	4050.7	2906.7	1376.8	807.4	773.9	758.5	706.8	628.4	545.2	521.2
52.5°	4526.3	4148.0	2916.7	1360.1	743.1	743.1	718.9	665.3	589.5	505.7	482.3
55°	4638.2	4203.7	2873.1	1297.7	675.4	692.1	676.7	637.1	564.0	478.2	463.4
57.5°	4633.6	4175.5	2785.9	1042.8	599.6	617.0	623.0	612.3	554.6	484.9	470.8
60°	4664.4	4146.6	2641.1	725.0	527.8	554.6	580.1	580.1	525.1	442.6	427.9
62.5°	4648.3	4080.3	2331.9	511.1	470.8	513.7	546.0	521.2	467.4	397.7	388.3
65°	4543.7	3891.1	1749.0	433.9	450.7	490.2	519.8	481.5	426.5	359.5	352.7
67.5°	4352.6	3543.0	930.2	405.7	442.0	474.2	490.2	448.7	394.4	326.7	319.2
69°	4109.1	3121.9	499.0	401.7	440.6	460.7	472.2	429.3	370.2	310.6	310.6
70°	3857.0	2788.6	322.6	403.7	435.3	452.7	459.4	415.8	356.1	293.7	291.0
72.5°	3022.0	1793.4	269.6	383.6	419.2	427.2	426.5	380.3	312.6	223.3	227.3
75°	1834.3	547.2	257.6	350.7	392.4	409.1	398.4	319.2	243.5	187.1	187.1
77.5°	499.0	191.8	244.1	319.9	358.1	362.8	359.5	297.1	217.3	155.0	156.2
80°	148.9	148.9	227.3	266.9	303.8	325.3	308.5	260.8	174.4	81.8	84.5
82.5°	85.9	96.6	190.5	187.8	245.5	244.8	244.8	186.4	118.1	53.6	43.6
85°	45.6	68.4	103.2	108.0	115.3	130.2	176.4	161.0	89.2	24.2	5.4
87.5°	26.2	38.9	28.2	20.1	42.3	77.2	114.0	109.3	74.4	0.6	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

(END OF REPORT)