

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: LUMARK

Report Number: P381126

Luminaire Tested: **PRV-PA2A-8540-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2A-8540-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12367.5 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 112
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

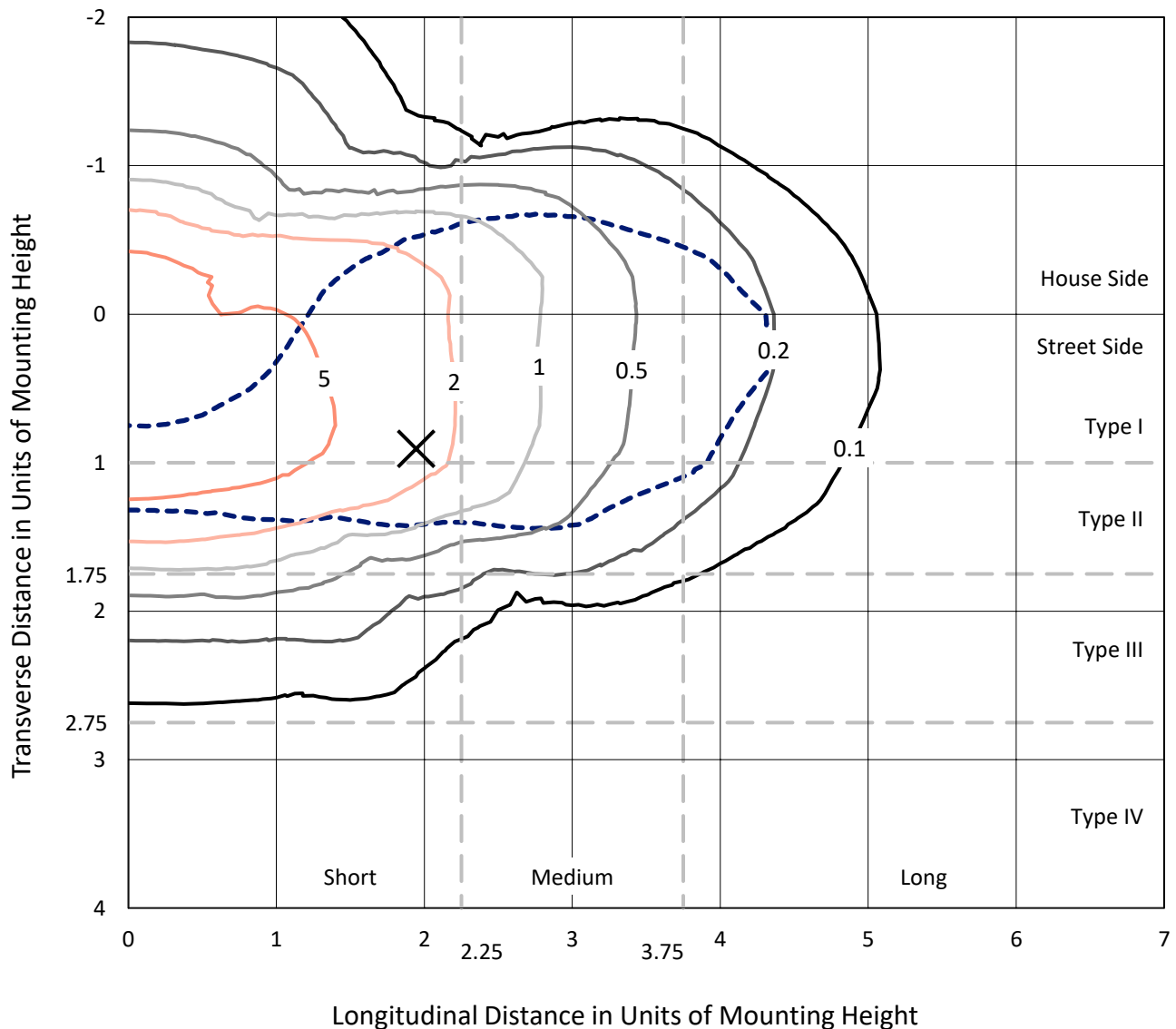


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

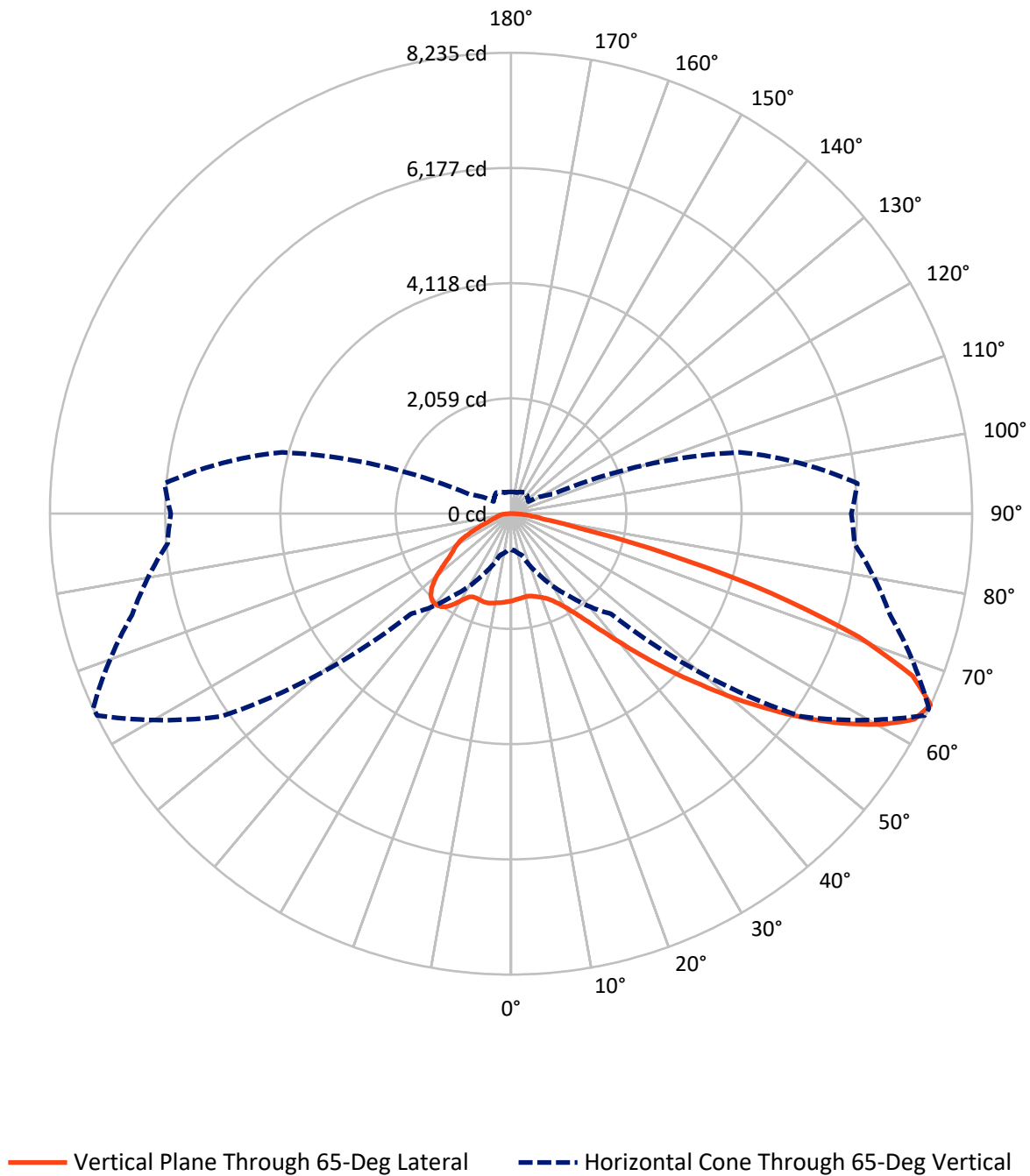


Based on 15 foot mounting height. Maximum calculated value = 9.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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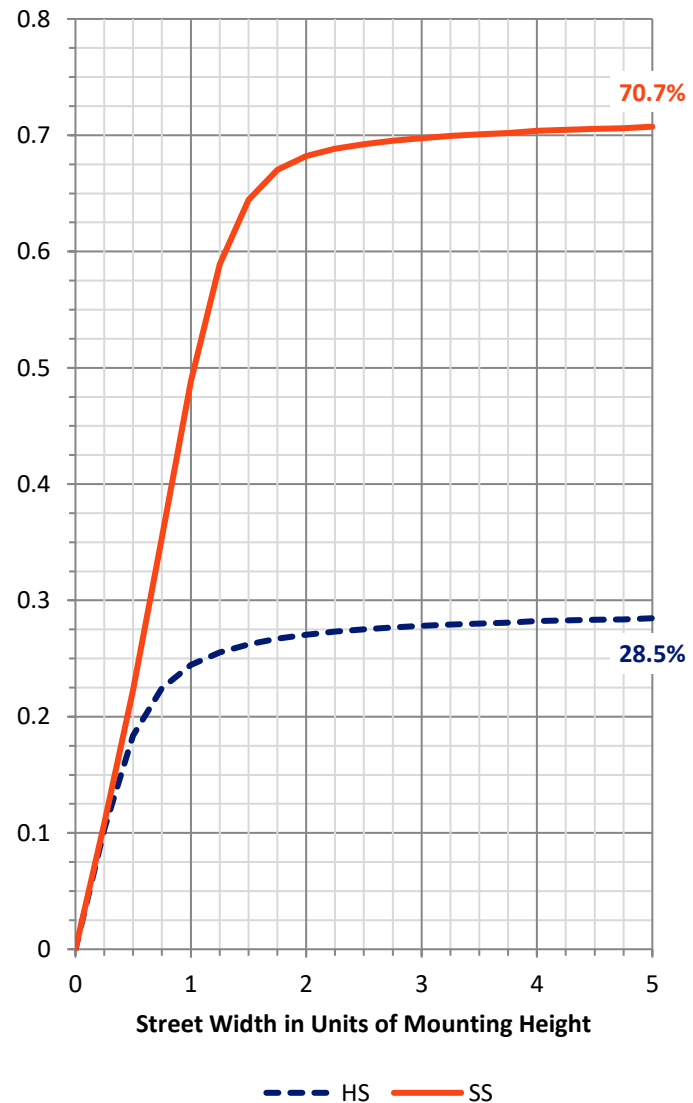
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3575.6	0.0	3575.6
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	8791.9	0.0	8791.9
	% Fixture	71.1	0.0	71.1
Total	Lumens	12367.5	0.0	12367.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	1.2
10°-20°	444.5	3.6
20°-30°	789.6	6.4
30°-40°	1335.8	10.8
40°-50°	2325.3	18.8
50°-60°	3005.1	24.3
60°-70°	2629.6	21.3
70°-80°	1430.3	11.6
80°-90°	258.4	2.1
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°	12367.5	100.0
0°-180°	12367.5	100.0

Coefficient of Utilization



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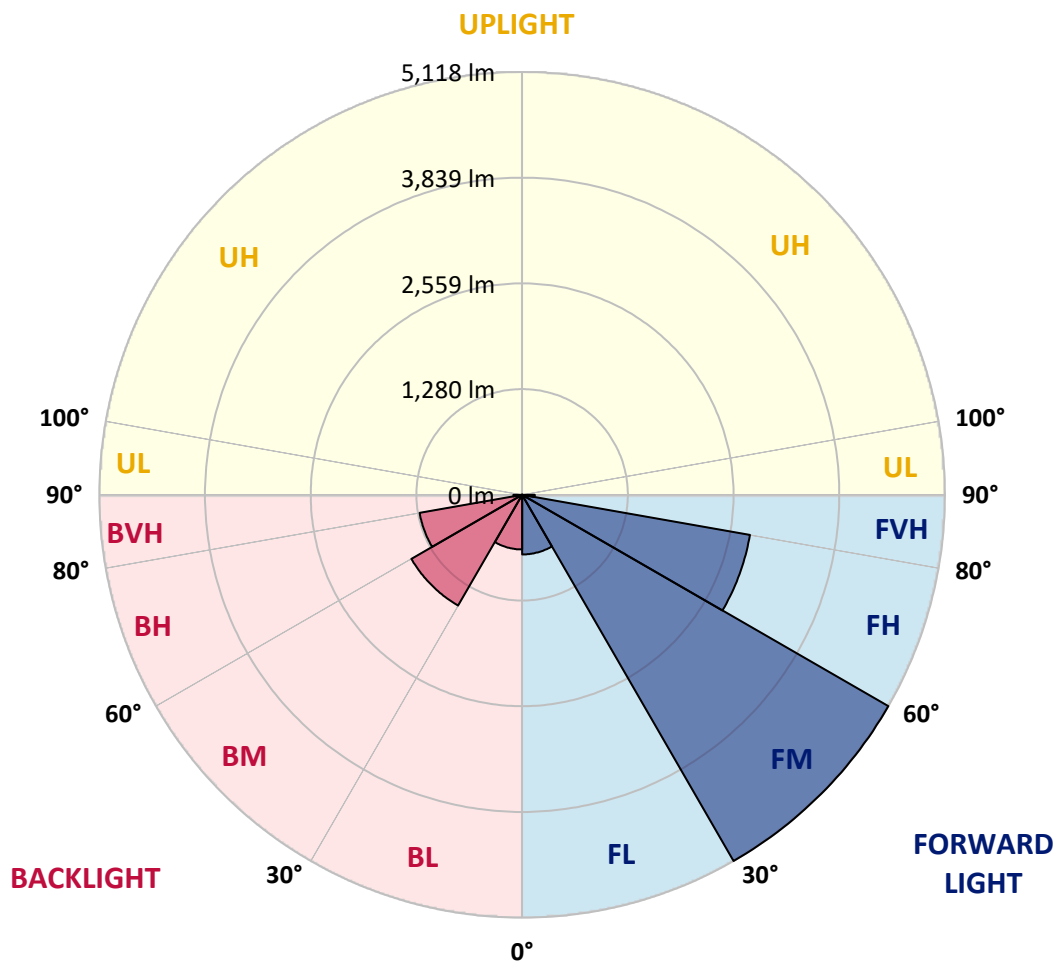
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	721.6	5.8			
FM	(30°-60°)	5118.0	41.4			
FH	(60°-80°)	2800.2	22.6			G2/5000
FVH	(80°-90°)	152.1	1.2			G2/225
BL	(0°-30°)	661.4	5.3	B2/1000		
BM	(30°-60°)	1548.2	12.5	B2/2500		
BH	(60°-80°)	1259.7	10.2	B3/2500		G3/2500
BVH	(80°-90°)	106.4	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8
2.5°	1535.1	1533.4	1530.2	1533.4	1535.1	1538.4	1536.7	1539.9	1538.4	1543.2	1551.4
5°	1496.0	1492.8	1491.1	1499.3	1504.1	1512.3	1515.6	1526.9	1525.3	1533.4	1546.5
7.5°	1452.1	1452.1	1450.4	1460.2	1466.7	1481.4	1492.8	1512.3	1513.9	1528.6	1543.2
10°	1417.9	1419.5	1417.9	1426.0	1435.8	1453.7	1473.2	1500.9	1502.5	1523.7	1538.4
12.5°	1404.9	1404.9	1404.9	1416.2	1429.3	1453.7	1476.5	1505.8	1509.0	1531.8	1544.9
15°	1422.8	1424.4	1421.1	1432.5	1447.1	1476.5	1497.6	1528.6	1531.8	1553.0	1561.1
17.5°	1486.2	1492.8	1484.6	1491.1	1487.9	1510.6	1530.2	1561.1	1562.8	1580.6	1583.9
20°	1611.6	1618.1	1605.1	1596.9	1567.6	1566.0	1574.1	1598.6	1598.6	1609.9	1601.8
22.5°	1805.3	1811.8	1789.0	1758.1	1688.1	1653.9	1636.0	1647.4	1645.8	1650.6	1629.5
25°	2062.5	2060.9	2033.2	1976.2	1863.9	1780.9	1736.9	1719.0	1719.0	1709.3	1683.2
27.5°	2381.6	2357.1	2308.3	2239.9	2083.6	1968.1	1873.6	1828.1	1819.9	1790.6	1741.8
30°	2721.8	2703.9	2633.9	2534.6	2353.9	2205.8	2049.5	1958.4	1953.4	1889.9	1816.7
32.5°	3122.2	3092.9	3014.8	2896.0	2679.5	2471.1	2275.8	2137.4	2129.2	2028.3	1927.4
35°	3636.6	3612.2	3460.9	3342.0	3063.6	2790.1	2559.0	2375.1	2368.6	2244.9	2116.2
37.5°	4253.6	4190.1	4043.6	3820.6	3527.6	3203.6	2910.6	2679.5	2671.4	2534.6	2371.8
40°	4803.9	4746.9	4616.6	4411.5	4097.4	3737.6	3340.4	3060.4	3052.2	2886.2	2681.1
42.5°	5210.8	5171.7	5087.1	4968.2	4743.6	4525.5	3889.0	3521.1	3506.4	3291.6	3036.0
45°	5446.9	5415.9	5367.1	5396.4	5393.1	5352.4	4543.4	4069.6	4022.4	3744.1	3431.6
47.5°	5389.9	5362.2	5381.7	5609.6	5923.8	6159.9	5305.2	4631.3	4567.8	4204.8	3853.1
50°	4978.0	4989.4	5091.9	5528.2	6233.1	6757.3	6150.1	5271.0	5186.4	4668.7	4253.6
52.5°	4227.6	4255.2	4504.3	5114.8	6198.9	7144.7	6913.6	5931.9	5819.6	5121.3	4618.3
55°	3358.3	3428.3	3750.6	4392.0	5752.9	7172.4	7489.8	6596.1	6472.4	5546.1	4935.7
57.5°	2484.1	2588.3	2961.1	3550.4	4898.2	6734.5	7777.9	7231.0	7081.2	5967.8	5271.0
60°	1575.8	1639.3	2069.0	2764.1	3749.0	5663.4	7740.5	7771.4	7641.2	6387.7	5621.0
62.5°	1006.0	1036.9	1253.4	1971.4	2620.9	4193.4	7331.9	8180.0	8092.1	6770.3	5953.1
65°	646.3	659.3	770.0	1212.8	1784.1	2531.4	6314.5	8224.0	8235.4	7009.6	6158.2
67.5°	525.8	532.3	573.0	748.8	1261.6	1398.4	4398.5	7598.9	7737.2	6947.7	6088.2
70°	478.6	486.7	529.1	597.4	976.7	965.4	2129.2	6358.4	6584.7	6591.2	5777.3
72.5°	403.7	415.1	472.1	564.9	755.4	761.9	901.9	4528.7	4862.4	5891.2	5310.1
75°	337.0	343.5	392.3	498.1	639.8	608.9	633.2	2401.1	2882.9	4724.1	4813.6
77.5°	273.5	280.0	315.8	397.2	568.1	473.7	498.1	994.6	1229.1	3206.9	3934.6
80°	195.4	201.9	242.6	309.3	429.8	426.5	369.5	548.6	595.8	1733.6	2555.7
82.5°	140.0	144.9	183.9	221.4	297.9	428.1	278.4	372.8	390.7	768.4	1030.4
85°	94.4	94.4	127.0	146.5	192.1	270.2	224.6	252.3	263.7	364.6	278.4
87.5°	40.7	40.7	68.4	74.9	100.9	125.4	167.6	127.0	130.2	197.0	113.9
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°	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8
2.5°	1556.2	1557.9	1561.1	1570.9	1577.4	1587.1	1592.1	1598.6	1598.6	1595.3	1596.9
5°	1553.0	1557.9	1569.3	1587.1	1598.6	1616.5	1629.5	1639.3	1642.5	1639.3	1640.9
7.5°	1551.4	1559.5	1579.0	1605.1	1621.4	1644.1	1662.1	1673.4	1681.6	1678.4	1679.9
10°	1546.5	1559.5	1583.9	1616.5	1640.9	1663.6	1679.9	1684.9	1689.7	1686.5	1684.9
12.5°	1553.0	1567.6	1593.7	1632.7	1660.4	1678.4	1683.2	1675.1	1663.6	1657.1	1655.6
15°	1566.0	1580.6	1606.7	1647.4	1671.8	1678.4	1666.9	1640.9	1614.9	1600.2	1598.6
17.5°	1583.9	1593.7	1614.9	1650.6	1670.2	1662.1	1639.3	1608.4	1588.8	1577.4	1579.0
20°	1595.3	1595.3	1611.6	1639.3	1655.6	1649.0	1621.4	1587.1	1556.2	1541.6	1536.7
22.5°	1611.6	1603.4	1605.1	1629.5	1652.3	1642.5	1583.9	1523.7	1479.7	1463.4	1461.9
25°	1655.6	1632.7	1618.1	1632.7	1686.5	1606.7	1489.5	1419.5	1378.8	1364.1	1365.8
27.5°	1709.3	1678.4	1647.4	1671.8	1714.1	1525.3	1369.0	1289.3	1264.9	1253.4	1258.4
30°	1763.0	1722.3	1681.6	1769.5	1694.6	1398.4	1214.4	1136.2	1115.1	1106.9	1113.4
32.5°	1862.3	1795.5	1746.7	1899.7	1634.4	1253.4	1046.7	975.1	955.6	945.8	942.5
35°	2028.3	1943.6	1894.9	2013.6	1549.7	1092.3	893.7	843.2	822.1	800.9	797.6
37.5°	2267.6	2165.1	2121.1	2078.8	1430.9	932.8	776.5	742.3	711.4	678.8	677.2
40°	2554.1	2420.6	2388.1	2108.1	1266.5	783.0	695.1	662.6	623.5	592.6	594.1
42.5°	2884.6	2713.6	2643.6	2099.9	1063.0	703.2	636.5	600.7	566.5	538.9	537.2
45°	3237.9	3044.1	2882.9	2043.0	861.1	647.9	600.7	558.4	524.1	493.2	490.0
47.5°	3628.5	3412.0	3104.4	1932.3	711.4	608.9	579.5	519.3	488.4	468.9	468.9
50°	4022.4	3763.6	3307.9	1764.6	623.5	579.5	548.6	498.1	473.7	457.4	457.4
52.5°	4359.4	4129.9	3475.5	1564.4	568.1	555.1	527.4	488.4	462.3	447.6	446.0
55°	4686.6	4470.1	3625.3	1365.8	522.6	522.6	522.6	480.2	450.9	437.9	436.3
57.5°	5012.2	4828.2	3781.5	1235.6	481.9	494.9	512.8	470.4	441.1	429.8	428.1
60°	5380.1	5258.0	3962.2	1144.4	446.0	465.6	499.8	459.1	424.9	415.1	413.5
62.5°	5770.8	5770.8	4126.6	1015.8	413.5	441.1	480.2	444.4	410.2	402.1	400.4
65°	6076.8	6208.6	4232.4	823.7	380.9	416.7	457.4	424.9	390.7	389.1	385.8
67.5°	6112.6	6319.4	4165.7	621.9	351.6	390.7	434.6	403.7	371.1	371.1	366.3
70°	5855.4	6065.4	3957.4	465.6	330.4	364.6	405.4	377.6	346.7	350.0	341.9
72.5°	5425.6	5477.8	3439.6	367.9	306.1	337.0	369.5	348.4	320.7	320.7	309.3
75°	4859.1	4569.4	2498.8	307.6	276.7	304.4	333.7	315.8	291.4	283.2	276.7
77.5°	3867.8	3311.1	1452.1	265.4	252.3	273.5	293.0	280.0	258.9	240.9	240.9
80°	2357.1	1940.4	641.4	229.5	223.0	239.3	252.3	237.6	219.8	201.9	197.0
82.5°	896.9	748.8	310.9	197.0	195.4	205.1	214.9	200.2	187.2	179.1	154.6
85°	245.8	226.3	213.3	164.4	161.1	159.5	170.9	164.4	146.5	120.4	107.4
87.5°	92.8	105.8	115.6	100.9	107.4	99.3	113.9	104.2	92.8	60.2	53.7
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)