

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: McGRAW-EDISON

Report Number: P193181

Luminaire Tested: **GLEON-AF-03-LED-E1-T3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193181
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: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-T3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14202.6 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 124
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: 25 FT



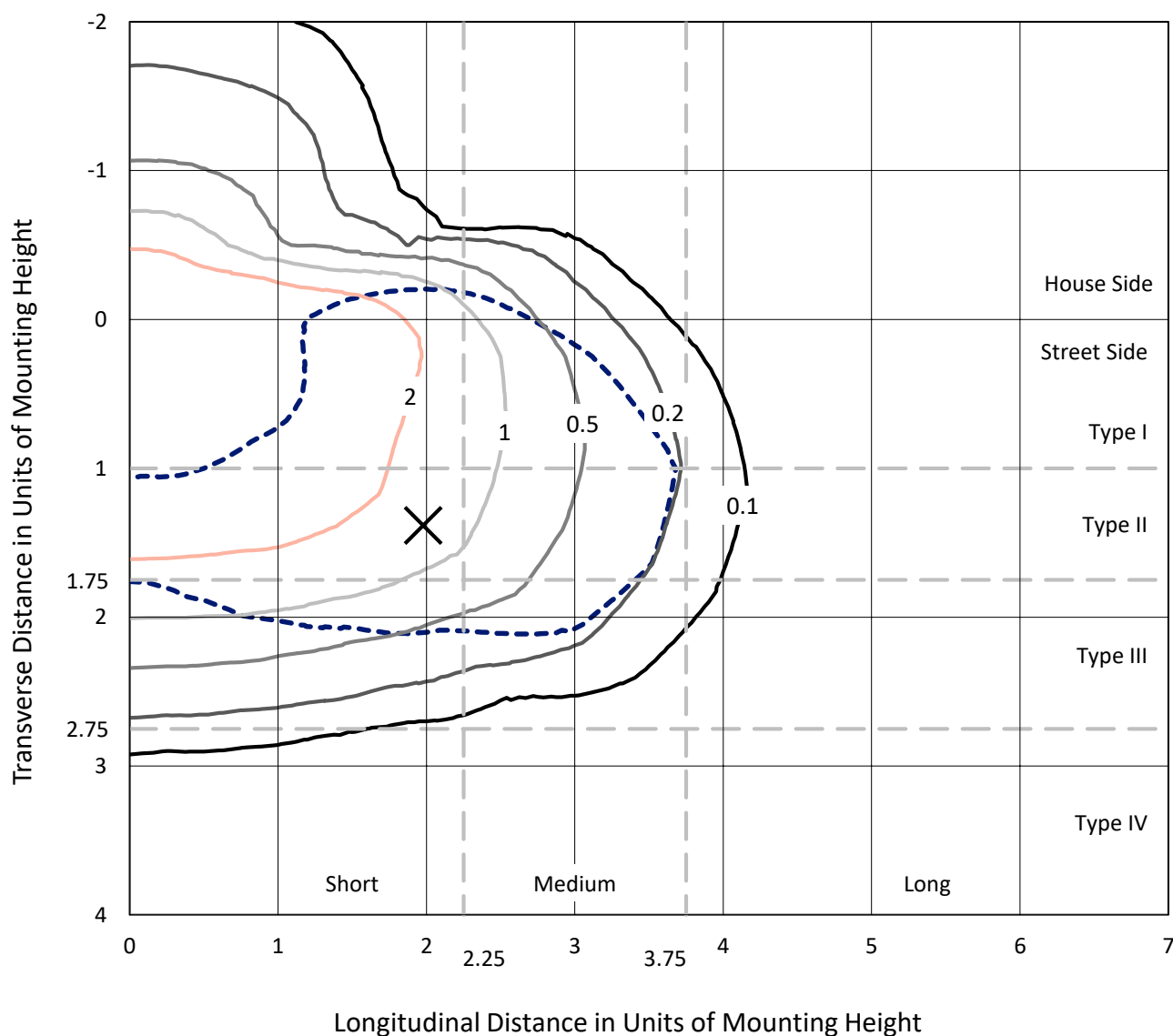
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

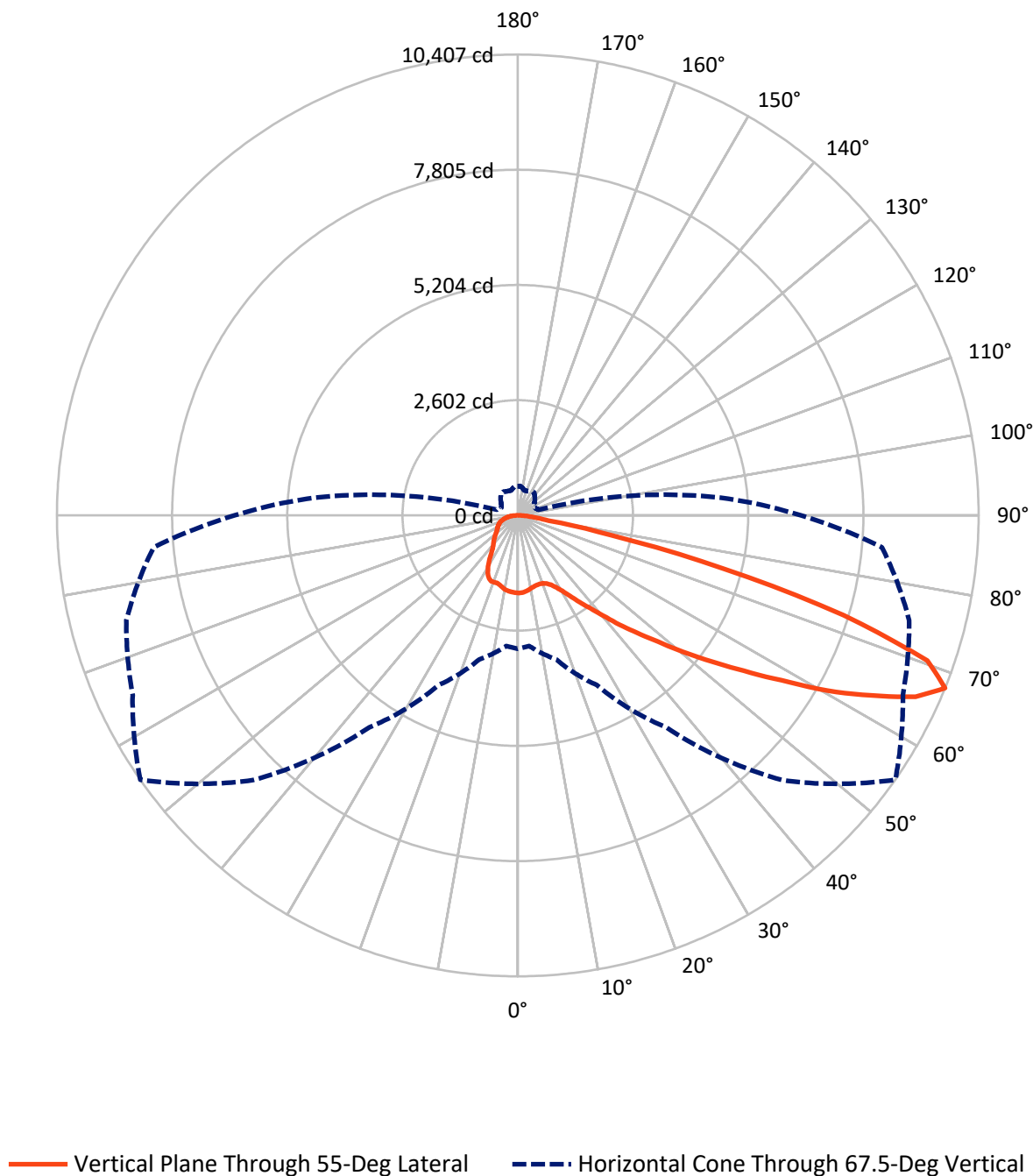


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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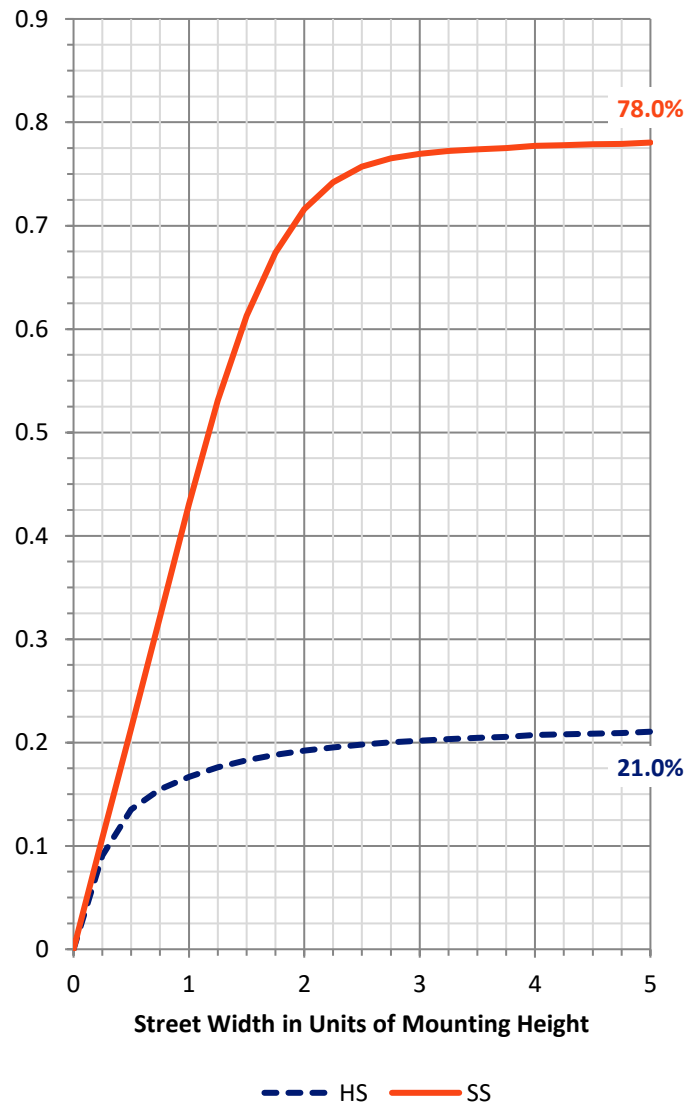
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3068.1	0.0	3068.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	11134.6	0.0	11134.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	14202.6	0.0	14202.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	1.2
10°-20°	463.0	3.3
20°-30°	775.5	5.5
30°-40°	1275.3	9.0
40°-50°	2146.7	15.1
50°-60°	3378.8	23.8
60°-70°	4032.2	28.4
70°-80°	1731.5	12.2
80°-90°	236.1	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°	14202.6	100.0
0°-180°	14202.6	100.0

Coefficient of Utilization



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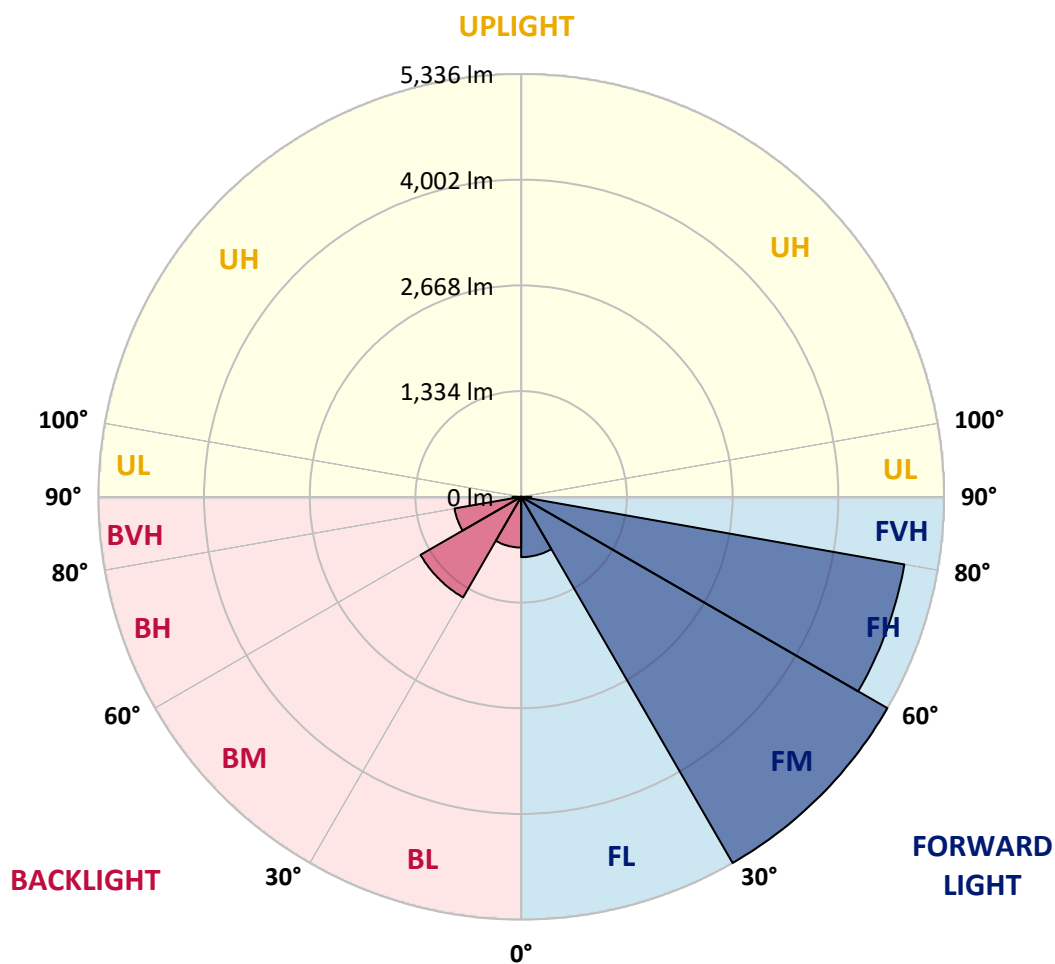
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	761.3	5.4			
FM	(30°-60°)	5335.6	37.6			
FH	(60°-80°)	4909.9	34.6			G2/5000
FVH	(80°-90°)	127.8	0.9			G2/225
BL	(0°-30°)	640.7	4.5	B2/1000		
BM	(30°-60°)	1465.3	10.3	B2/2500		
BH	(60°-80°)	853.8	6.0	B2/1000		G2/1000
BVH	(80°-90°)	108.3	0.8			G2/225
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°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3
2.5°	1736.2	1736.9	1738.4	1743.8	1748.5	1747.3	1747.9	1745.2	1744.5	1740.4	1744.5
5°	1714.3	1716.4	1717.0	1726.0	1731.4	1732.9	1730.7	1727.3	1723.2	1719.0	1721.2
7.5°	1664.2	1669.7	1670.3	1682.7	1691.7	1703.4	1704.0	1704.7	1702.6	1699.8	1704.0
10°	1632.7	1634.1	1633.3	1642.2	1649.2	1662.2	1669.7	1682.7	1688.3	1689.5	1692.3
12.5°	1630.5	1629.3	1627.2	1627.2	1625.1	1630.5	1644.4	1662.8	1675.9	1680.0	1683.4
15°	1652.5	1651.9	1645.0	1634.7	1621.7	1617.6	1629.3	1649.9	1667.0	1675.9	1679.4
17.5°	1701.9	1697.8	1686.9	1663.6	1635.4	1624.4	1625.8	1642.9	1662.8	1674.5	1677.9
20°	1792.5	1792.5	1769.1	1725.3	1675.2	1649.2	1636.8	1647.1	1666.3	1682.0	1686.9
22.5°	1948.8	1950.3	1911.2	1839.2	1754.8	1699.2	1668.3	1666.3	1688.9	1706.7	1712.2
25°	2170.4	2165.0	2110.2	2007.2	1878.9	1787.1	1733.5	1721.2	1740.4	1760.2	1767.2
27.5°	2428.4	2408.5	2343.4	2219.2	2053.2	1918.7	1836.4	1816.6	1835.0	1857.6	1864.5
30°	2683.6	2662.9	2585.5	2449.7	2265.2	2095.0	1977.0	1944.9	1970.8	2003.0	2007.2
32.5°	2938.7	2938.7	2852.3	2693.9	2492.9	2305.6	2164.3	2125.8	2169.2	2208.2	2217.1
35°	3244.0	3245.4	3161.8	2971.0	2755.0	2556.6	2401.0	2372.9	2438.0	2465.4	2486.7
37.5°	3619.3	3626.9	3519.1	3288.6	3051.9	2843.5	2658.2	2619.8	2684.9	2759.8	2828.4
40°	4024.7	4034.3	3915.7	3631.7	3395.0	3176.8	2976.5	2907.3	3015.7	3158.3	3246.7
42.5°	4411.6	4461.0	4346.5	4054.2	3799.7	3574.0	3370.9	3270.1	3405.9	3621.4	3698.2
45°	4970.8	5006.4	4806.8	4541.9	4302.5	4050.1	3781.1	3674.8	3864.8	4136.5	4152.3
47.5°	5343.3	5316.4	5215.0	5050.3	4898.6	4662.6	4258.0	4141.4	4393.8	4713.5	4625.0
50°	5541.4	5549.8	5535.9	5545.6	5551.0	5402.9	4842.4	4682.7	4983.8	5370.0	5166.3
52.5°	5726.6	5671.7	5717.1	5942.1	6213.7	6158.8	5478.4	5311.6	5616.3	6098.5	5738.3
55°	5722.6	5638.9	5786.4	6183.5	6772.8	6836.0	6192.5	6000.4	6285.0	6879.8	6344.6
57.5°	5520.3	5524.2	5751.4	6271.4	7162.5	7472.5	7021.1	6733.0	6994.3	7671.4	6898.3
60°	5241.7	5279.4	5606.6	6256.9	7474.5	7994.5	8037.7	7522.6	7689.2	8391.0	7356.5
62.5°	4792.3	4832.1	5283.6	6107.4	7427.2	8497.4	8957.0	8418.5	8415.7	8827.4	7491.1
65°	4083.7	4072.1	4546.1	5548.3	7030.1	8869.2	9870.1	9193.0	8963.2	8834.1	7220.7
67.5°	3011.5	2959.4	3366.2	4225.7	5843.3	8452.9	10407.2	9596.4	9149.8	8253.1	6394.8
70°	1562.7	1510.5	1839.8	2467.5	3842.9	6597.2	9812.5	9387.8	8737.5	6918.2	5009.7
72.5°	668.1	659.3	793.0	1082.5	1859.0	3805.2	7694.0	8125.6	7497.2	5154.6	3444.4
75°	449.3	446.6	496.7	590.0	836.3	1544.2	4814.9	5767.8	5485.2	3196.1	1937.2
77.5°	352.6	349.2	378.7	423.9	541.9	609.1	2136.9	3096.5	2866.1	1391.2	847.9
80°	275.8	273.0	291.5	316.2	389.6	384.1	703.2	1232.0	953.5	532.9	412.2
82.5°	217.4	217.4	232.5	233.3	276.4	262.0	367.0	542.6	476.1	310.8	252.5
85°	199.0	199.0	214.7	174.3	180.4	165.3	227.7	321.8	301.9	127.7	109.8
87.5°	100.2	97.5	180.4	154.4	98.2	87.9	111.1	155.7	167.3	70.7	54.8
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°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3
2.5°	1743.1	1742.4	1743.8	1744.5	1750.0	1757.6	1760.9	1765.7	1768.5	1767.2
5°	1722.5	1723.9	1729.3	1733.5	1743.1	1755.5	1762.4	1767.9	1772.6	1770.5
7.5°	1705.4	1708.9	1717.0	1720.5	1726.0	1729.3	1728.7	1730.7	1734.9	1730.1
10°	1695.8	1699.8	1706.1	1701.2	1688.3	1669.7	1652.5	1643.6	1646.4	1642.9
12.5°	1686.2	1691.7	1686.9	1664.2	1627.9	1603.8	1590.9	1592.2	1598.4	1599.8
15°	1680.6	1682.7	1662.2	1619.7	1582.6	1579.2	1586.0	1584.6	1585.4	1585.4
17.5°	1680.6	1675.2	1636.8	1594.2	1578.5	1572.2	1551.1	1524.2	1512.5	1508.6
20°	1689.5	1675.2	1628.5	1600.4	1566.1	1513.4	1457.1	1407.7	1385.7	1379.5
22.5°	1716.4	1691.7	1651.9	1603.2	1505.7	1417.3	1328.0	1269.0	1229.2	1222.4
25°	1770.5	1743.1	1697.8	1566.8	1409.7	1283.5	1181.9	1116.1	1076.3	1070.8
27.5°	1865.2	1847.3	1722.5	1486.6	1282.1	1147.0	1053.0	1002.2	972.7	970.7
30°	2007.8	1999.0	1710.1	1367.8	1125.1	1014.6	969.3	939.8	917.9	917.1
32.5°	2235.7	2163.7	1669.7	1223.1	981.7	920.6	902.1	884.2	867.1	867.1
35°	2528.6	2296.7	1592.9	1068.1	894.5	868.5	845.1	817.0	794.5	793.0
37.5°	2873.0	2379.0	1455.0	943.2	853.5	833.4	799.2	757.3	717.5	710.7
40°	3220.8	2403.7	1260.9	866.4	827.3	798.4	756.6	707.2	668.8	666.8
42.5°	3539.7	2356.4	1055.0	813.6	801.2	762.8	718.9	675.0	644.8	644.2
45°	3807.2	2233.6	882.2	763.5	773.8	730.6	691.5	655.8	632.5	627.7
47.5°	4059.0	2060.1	760.8	710.7	746.4	712.7	679.8	646.2	623.6	620.1
50°	4351.2	1872.7	675.7	659.3	722.3	706.6	689.4	654.5	616.7	612.6
52.5°	4705.2	1710.9	609.1	613.9	703.8	714.8	714.1	677.7	611.9	606.4
55°	5100.3	1531.2	559.1	576.9	696.3	729.9	720.2	699.7	616.0	607.8
57.5°	5489.3	1321.3	524.1	548.8	685.3	728.5	690.8	661.3	625.6	613.9
60°	5780.9	1039.3	497.3	524.1	661.3	706.0	658.5	619.5	623.6	614.7
62.5°	5800.0	803.3	465.1	502.8	625.0	683.2	637.3	600.9	632.5	624.2
65°	5459.1	607.2	434.2	477.5	585.8	668.8	616.7	590.6	650.9	642.1
67.5°	4596.1	488.4	408.2	451.4	546.8	638.6	598.2	581.0	667.5	651.7
70°	3318.1	416.4	382.7	419.8	511.8	604.3	581.7	563.9	622.9	598.2
72.5°	2042.9	360.9	354.0	377.9	485.0	568.7	557.0	531.6	561.1	541.3
75°	1020.1	312.8	321.8	336.8	447.3	528.2	515.8	490.5	494.6	490.5
77.5°	488.4	267.5	284.0	295.6	398.6	482.3	469.3	443.1	438.3	439.0
80°	309.4	223.7	239.4	247.7	356.0	428.8	415.7	389.6	444.5	412.2
82.5°	193.5	181.8	185.8	201.0	310.1	373.2	356.0	332.7	400.7	317.0
85°	107.0	127.0	132.4	145.5	238.7	312.2	295.0	265.5	238.0	234.0
87.5°	63.8	75.5	77.5	87.1	160.5	225.7	199.6	189.3	157.2	156.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)