

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: P194859

Luminaire Tested: **GLEON-AF-01-LED-E1-T4FT-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-T4FT-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5066 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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



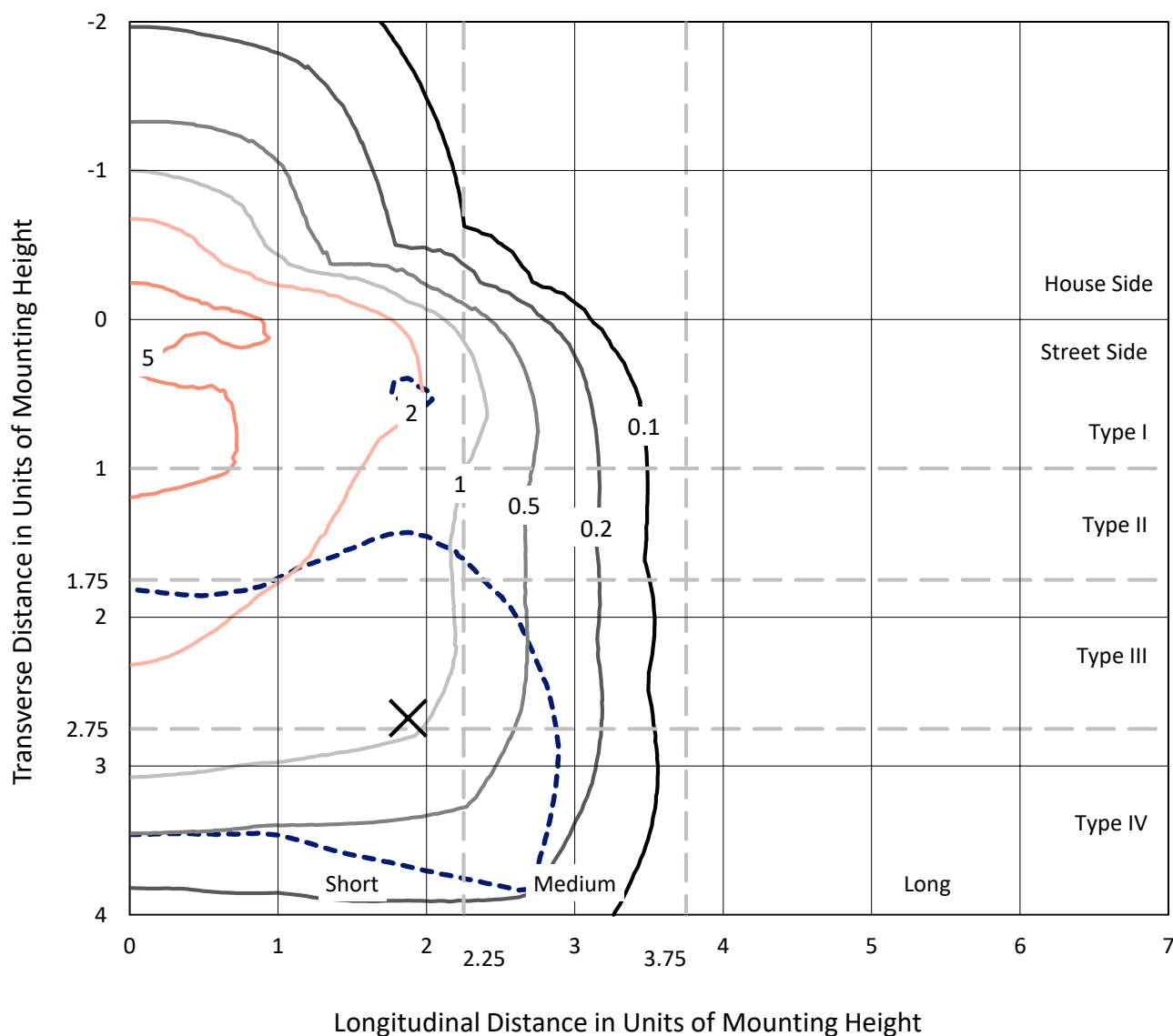
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

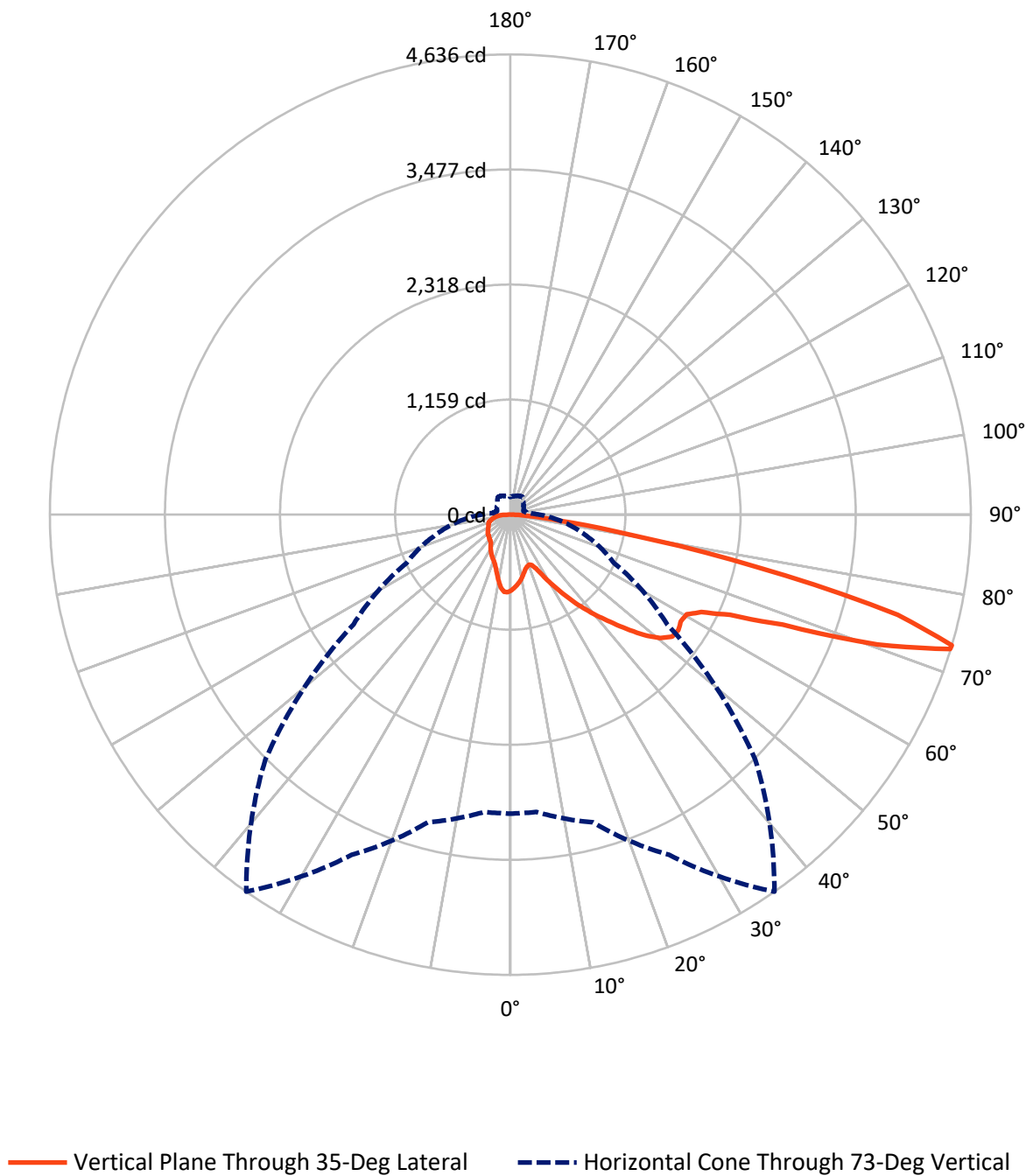


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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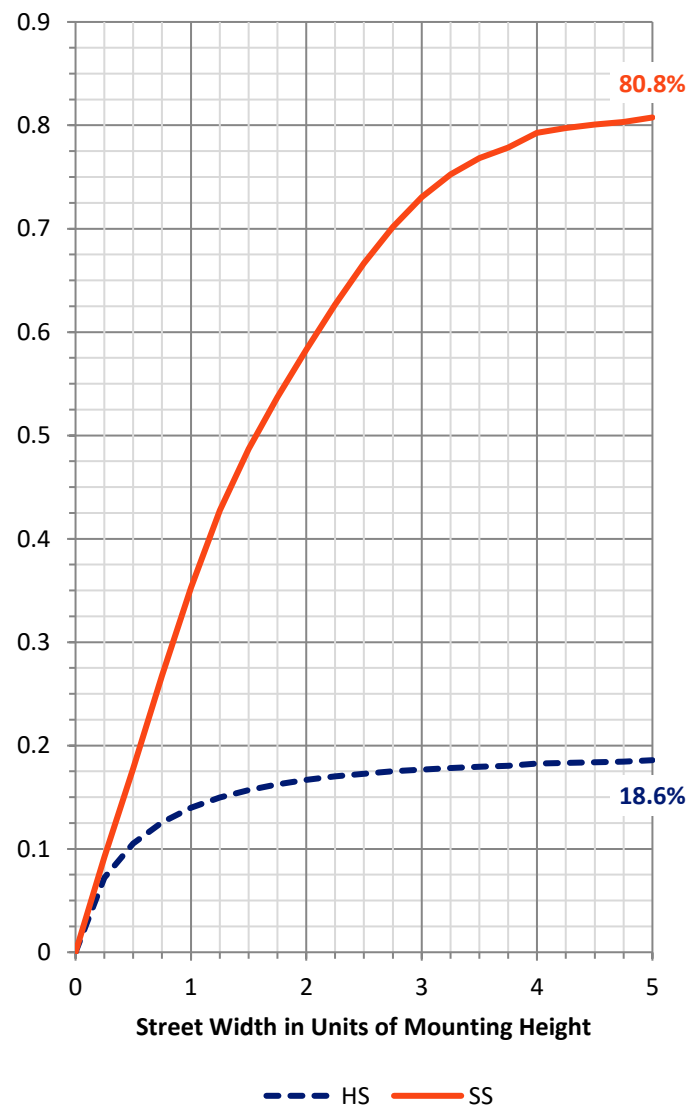
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	966.2	0.0	966.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	4099.8	0.0	4099.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	5066.0	0.0	5066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	1.4
10°-20°	172.8	3.4
20°-30°	279.3	5.5
30°-40°	468.3	9.2
40°-50°	721.9	14.3
50°-60°	968.5	19.1
60°-70°	1290.3	25.5
70°-80°	984.1	19.4
80°-90°	111.5	2.2
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°	5066.0	100.0
0°-180°	5066.0	100.0

Coefficient of Utilization



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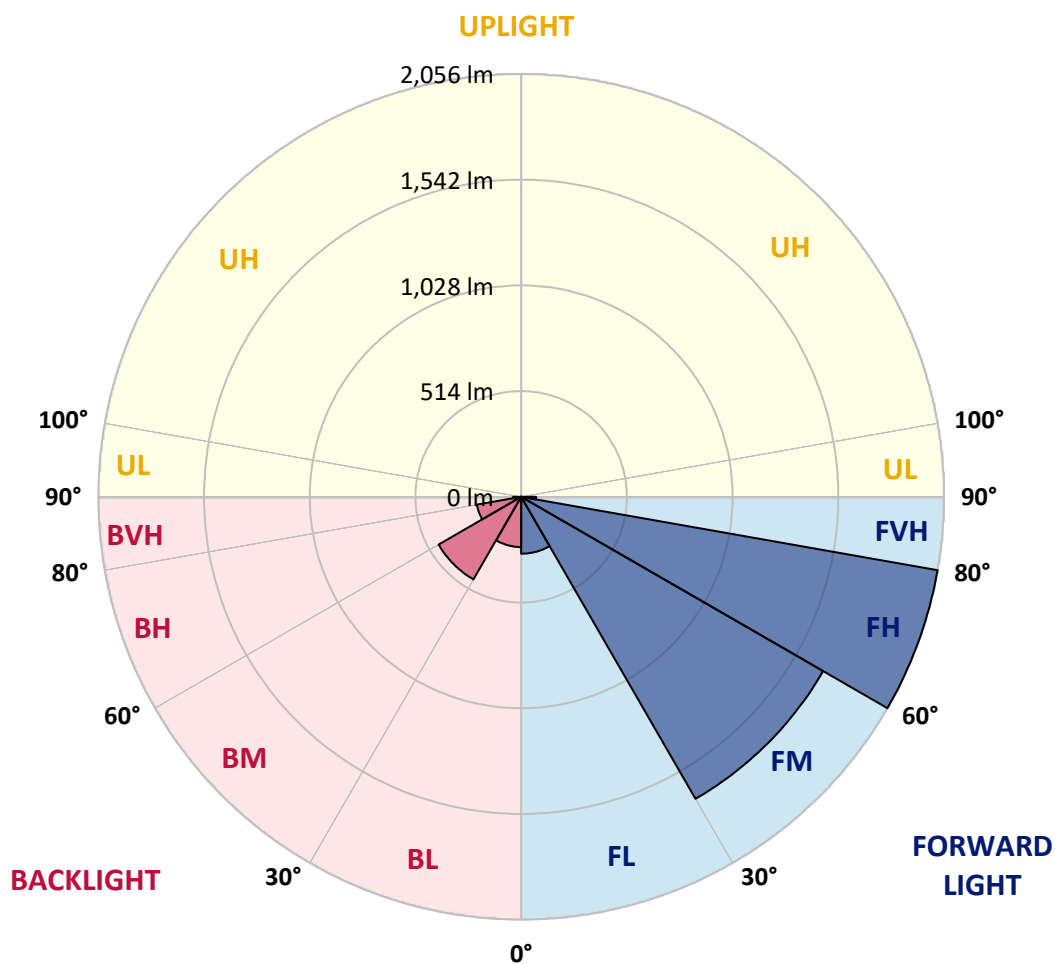
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.8	5.5			
FM	(30°-60°)	1695.1	33.5			
FH	(60°-80°)	2055.8	40.6			G2/5000
FVH	(80°-90°)	72.1	1.4			G1/100
BL	(0°-30°)	244.5	4.8	B1/500		
BM	(30°-60°)	463.7	9.2	B1/1000		
BH	(60°-80°)	218.6	4.3	B1/500		G1/500
BVH	(80°-90°)	39.4	0.8			G1/100
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°	45°	55°	65°	75°	85°	90°
0°	764.6	764.6	764.6	764.6	764.6	764.6	764.6	764.6	764.6	764.6	764.6
2.5°	734.5	735.9	734.2	736.4	740.0	743.9	746.6	750.5	754.9	761.0	762.4
5°	699.9	702.1	702.1	706.0	713.0	719.4	725.2	731.5	740.8	751.2	755.4
7.5°	662.0	663.2	665.4	671.2	681.4	690.4	698.7	708.9	721.6	735.4	742.7
10°	616.2	617.9	621.3	629.6	643.5	655.9	667.8	681.9	698.0	715.2	724.5
12.5°	583.9	583.4	584.8	590.9	603.1	618.2	635.4	653.4	673.1	693.3	704.5
15°	572.9	570.2	564.6	563.2	569.8	584.8	604.8	626.9	650.5	674.8	688.7
17.5°	579.7	575.1	559.8	548.6	547.6	559.0	580.2	605.0	632.3	662.0	679.2
20°	622.5	611.6	573.9	547.9	538.9	544.5	562.9	589.2	621.3	660.7	682.9
22.5°	725.0	708.9	628.9	580.5	550.0	543.2	557.1	585.1	622.5	675.8	704.0
25°	874.1	851.2	723.3	661.7	598.9	562.7	565.9	594.6	639.8	710.9	744.9
27.5°	991.8	977.0	846.6	776.3	688.0	615.2	594.3	618.4	675.1	768.3	803.1
30°	1061.9	1052.9	978.5	906.2	801.6	698.9	648.8	663.2	730.3	847.8	876.5
32.5°	1143.2	1137.8	1101.3	1034.9	924.2	808.9	735.2	730.1	804.3	943.4	956.6
35°	1227.3	1225.6	1204.2	1156.5	1055.8	953.9	849.8	815.2	884.8	1042.7	1034.4
37.5°	1305.7	1302.7	1290.3	1262.6	1193.5	1109.6	966.5	902.6	971.6	1137.6	1100.8
40°	1449.9	1427.1	1384.5	1363.6	1332.7	1240.7	1059.2	984.1	1061.7	1228.1	1158.2
42.5°	1625.8	1588.6	1509.3	1480.6	1476.2	1344.1	1122.5	1063.1	1152.4	1317.8	1214.7
45°	1764.2	1729.2	1660.8	1624.6	1640.7	1437.8	1186.0	1147.5	1245.8	1412.0	1272.8
47.5°	1911.9	1856.9	1766.4	1777.4	1812.4	1526.3	1250.7	1238.3	1348.2	1517.3	1345.1
50°	1917.3	1875.2	1835.5	1901.0	1955.5	1607.8	1331.7	1333.4	1473.5	1649.9	1441.2
52.5°	1806.1	1797.1	1860.1	1963.0	2041.6	1672.3	1423.9	1431.7	1633.8	1802.2	1546.7
55°	1767.2	1756.9	1829.7	1941.3	2053.3	1725.6	1523.9	1538.0	1827.7	1962.8	1649.7
57.5°	1862.0	1839.4	1844.3	1931.1	2024.8	1783.9	1632.9	1661.3	2038.4	2103.1	1715.8
60°	2127.2	2078.8	1986.8	1984.6	2040.1	1871.5	1758.9	1793.7	2257.4	2170.3	1690.0
62.5°	2499.2	2450.8	2278.5	2166.4	2158.1	2016.0	1913.6	1922.9	2383.9	2079.3	1532.6
65°	2901.8	2858.5	2666.1	2507.7	2431.3	2255.4	2093.4	1980.5	2342.5	1828.9	1257.3
67.5°	3390.5	3344.1	3178.6	3032.4	2959.0	2641.7	2219.7	1925.3	2080.0	1416.8	903.8
70°	3732.3	3684.9	3619.7	3738.2	3918.0	3199.1	2236.0	1700.7	1553.6	941.7	544.0
72.5°	3286.4	3264.3	3383.2	3882.2	4631.0	3537.2	2021.1	1238.3	902.3	499.9	314.8
73°	3011.0	3006.2	3209.1	3781.2	4636.1	3485.2	1927.0	1150.9	773.9	442.3	287.8
75°	1359.7	1398.8	1843.5	2888.2	4027.9	2871.9	1356.3	660.3	437.2	305.6	217.2
77.5°	326.7	340.3	576.8	1371.6	2543.7	1711.4	614.5	326.5	279.5	215.8	158.6
80°	139.2	143.8	222.1	506.7	1197.6	689.2	283.2	218.7	193.4	150.6	111.2
82.5°	77.4	82.2	126.0	229.9	483.4	235.0	172.7	152.3	127.2	90.7	72.3
85°	43.8	46.5	73.7	128.4	204.8	94.4	103.4	101.2	71.8	46.7	35.5
87.5°	20.7	22.4	35.5	59.6	80.3	37.0	52.5	57.9	45.0	28.5	18.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	764.6	764.6	764.6	764.6	764.6	764.6	764.6	764.6	764.6	764.6
2.5°	764.1	768.5	773.6	776.3	778.7	781.6	784.6	784.6	785.1	785.3
5°	758.8	767.8	775.8	779.2	779.9	779.9	779.2	775.3	771.9	773.4
7.5°	747.6	760.7	767.5	766.3	757.1	746.4	737.4	726.4	720.8	719.9
10°	731.5	746.6	747.8	735.7	712.8	689.9	671.0	652.5	643.7	641.5
12.5°	713.8	727.6	719.9	694.8	658.1	624.7	600.6	581.9	573.6	571.5
15°	699.4	708.9	689.2	649.8	603.6	568.3	548.3	534.5	528.6	526.9
17.5°	691.9	693.8	657.8	604.5	555.4	526.0	513.6	507.0	504.8	503.6
20°	695.5	681.9	627.9	562.5	516.0	495.3	492.4	490.7	490.2	489.5
22.5°	713.8	678.3	600.4	522.6	481.4	472.4	474.9	474.6	474.1	473.7
25°	746.4	681.4	573.6	484.6	452.5	450.5	454.9	454.9	453.0	453.0
27.5°	789.4	688.0	543.7	448.6	426.2	426.5	429.9	428.9	426.7	425.2
30°	842.0	692.1	508.7	416.2	401.6	400.7	401.6	397.5	390.9	390.5
32.5°	895.7	687.0	468.1	387.5	375.6	373.4	372.7	366.9	359.3	357.1
35°	944.4	668.3	426.7	364.7	350.8	345.9	349.3	347.4	340.6	338.9
37.5°	979.9	633.5	389.5	344.5	333.0	331.8	334.0	334.7	326.7	325.0
40°	1003.8	586.3	357.6	327.4	329.6	325.0	317.7	312.6	310.2	309.4
42.5°	1023.0	537.2	330.9	319.4	330.4	317.0	301.2	292.9	297.3	299.2
45°	1045.1	489.2	308.5	309.4	326.7	307.7	289.7	281.7	283.4	283.9
47.5°	1075.5	430.8	284.4	293.4	314.6	301.4	282.7	271.3	263.2	259.6
50°	1117.6	361.8	259.3	275.4	302.6	296.8	271.7	259.6	244.7	241.3
52.5°	1146.8	297.3	238.7	260.3	291.9	287.6	263.0	247.2	231.6	228.7
55°	1131.0	246.9	220.7	243.5	277.8	276.1	255.7	234.5	222.4	219.9
57.5°	1051.9	215.1	206.8	227.7	260.5	266.4	246.0	223.8	215.1	213.4
60°	901.1	195.1	198.0	217.0	246.4	256.7	236.2	218.0	212.1	210.9
62.5°	699.2	181.7	191.5	209.2	235.5	249.8	230.9	217.2	215.1	213.6
65°	500.9	171.0	184.4	201.4	225.5	243.5	228.9	216.3	216.8	215.5
67.5°	340.3	161.5	175.9	192.7	215.8	237.9	226.2	212.9	218.9	217.5
70°	238.2	152.3	165.9	181.5	203.6	230.1	221.4	207.8	207.3	201.4
72.5°	185.9	140.1	152.3	165.9	188.1	219.2	211.7	196.3	188.3	182.2
73°	177.3	137.2	148.9	162.5	184.6	216.5	209.0	193.2	184.2	178.6
75°	146.7	124.6	135.3	147.4	170.0	203.9	195.8	178.8	167.4	164.0
77.5°	115.3	106.6	116.8	127.7	149.9	185.4	176.4	160.1	153.8	150.8
80°	85.4	88.3	97.3	107.0	129.9	165.7	157.6	141.3	169.6	162.5
82.5°	60.1	66.9	75.2	83.9	109.0	146.5	136.7	119.9	124.1	103.1
85°	35.5	43.8	51.6	59.1	78.6	121.4	112.9	95.6	78.3	74.7
87.5°	20.7	24.3	26.5	34.3	54.0	91.5	79.6	70.8	40.6	27.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)