

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: P193265

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193265
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-07-LED-E1-T4FT-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33096.8 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 295
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



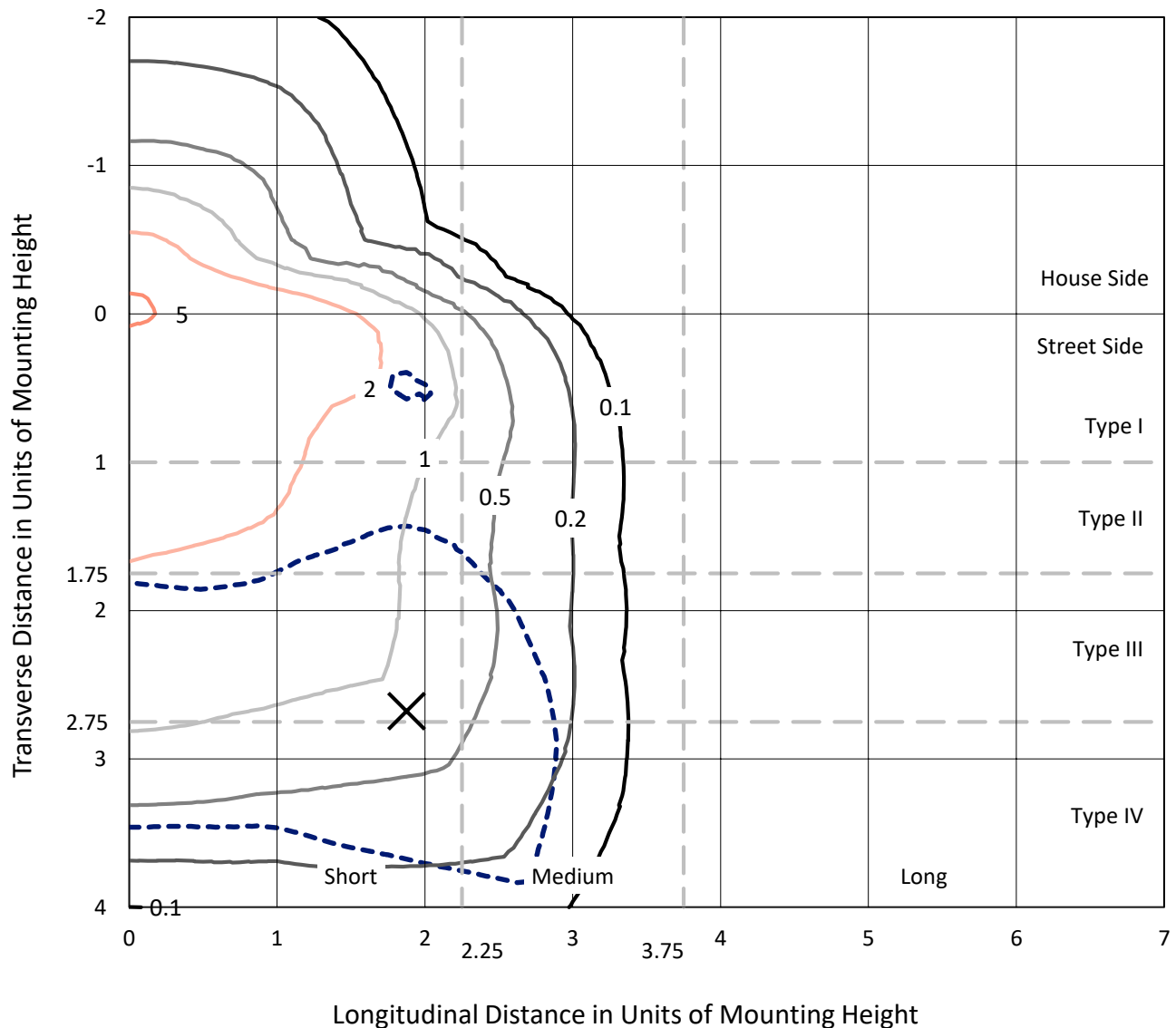
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

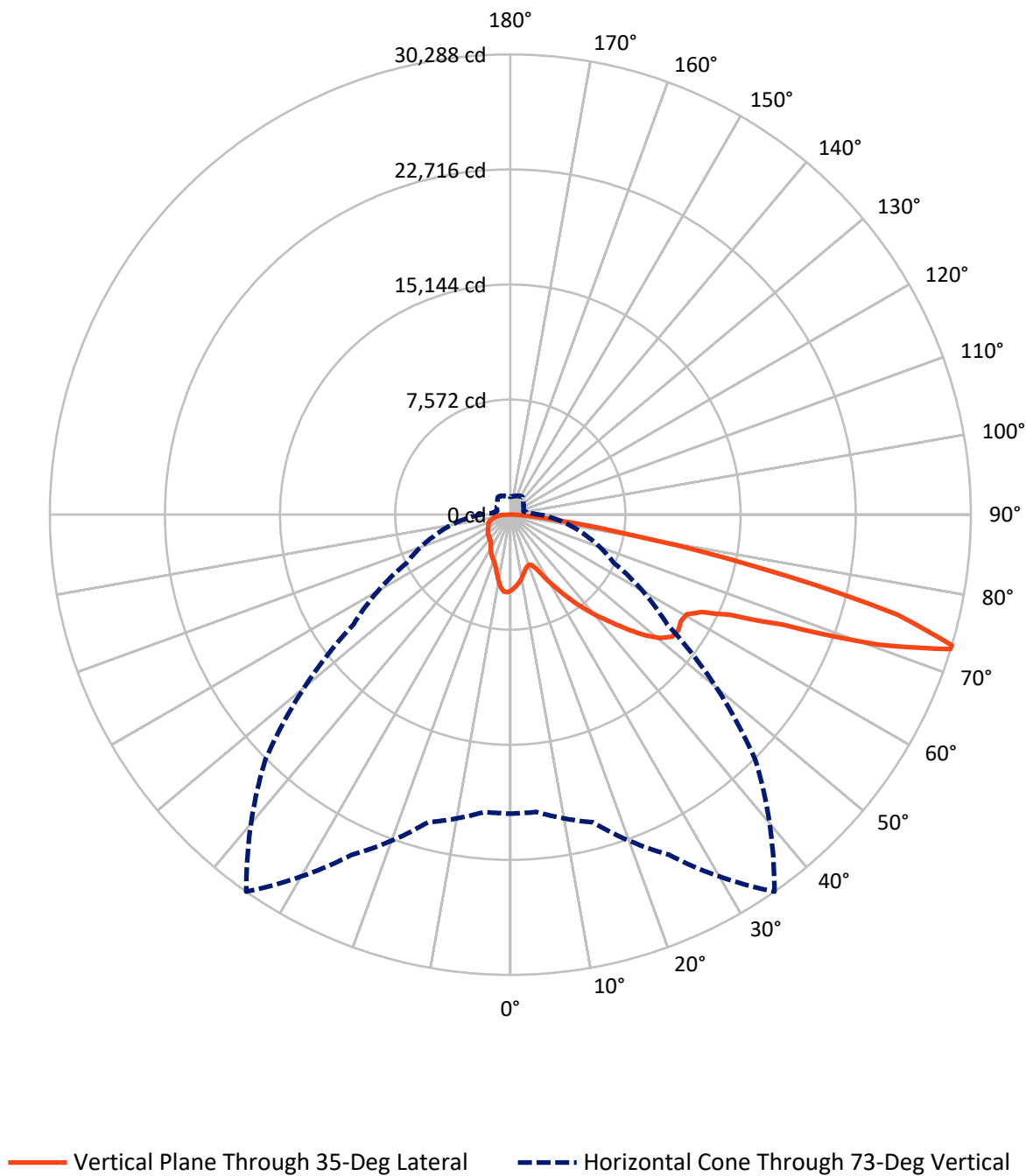


Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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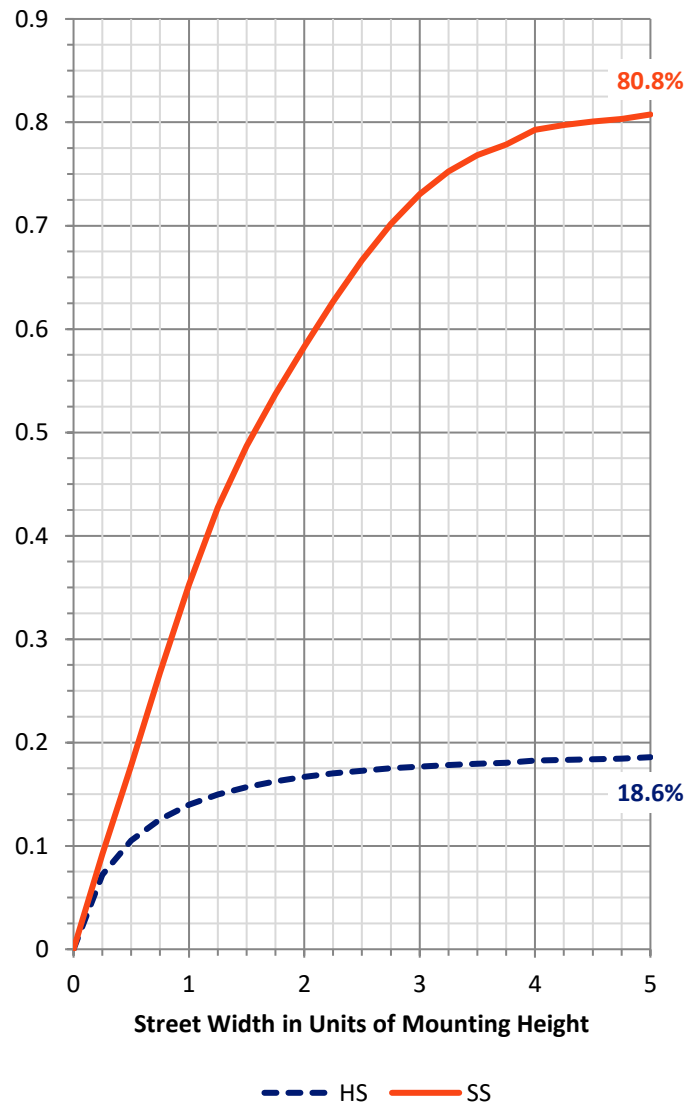
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6312.5	0.0	6312.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	26784.3	0.0	26784.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	33096.8	0.0	33096.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.2	1.4
10°-20°	1128.7	3.4
20°-30°	1824.7	5.5
30°-40°	3059.7	9.2
40°-50°	4716.4	14.3
50°-60°	6327.6	19.1
60°-70°	8429.6	25.5
70°-80°	6429.2	19.4
80°-90°	728.7	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°	33096.8	100.0
0°-180°	33096.8	100.0

Coefficient of Utilization



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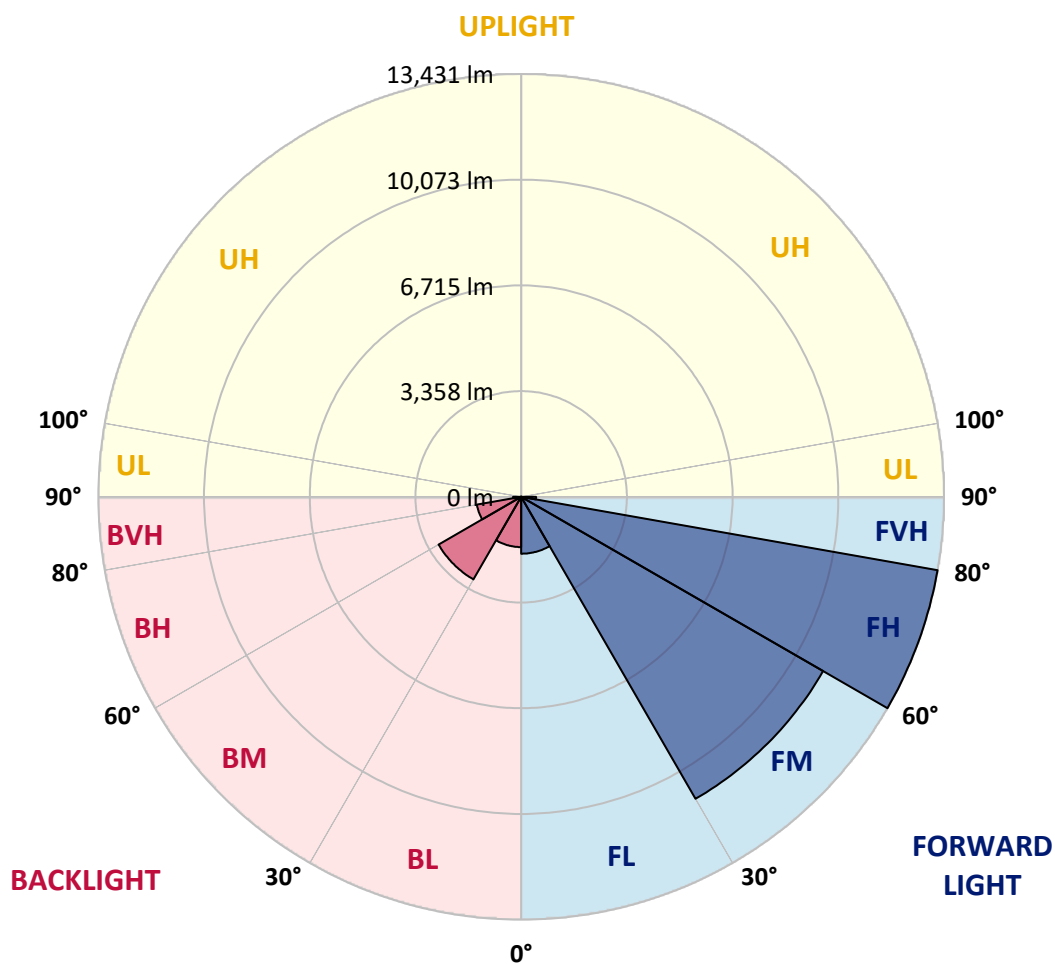
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1808.2	5.5			
FM	(30°-60°)	11074.4	33.5			
FH	(60°-80°)	13430.7	40.6			G5
FVH	(80°-90°)	471.0	1.4			G3/500
BL	(0°-30°)	1597.4	4.8	B3/2500		
BM	(30°-60°)	3029.3	9.2	B3/5000		
BH	(60°-80°)	1428.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	257.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4995.4	4995.4	4995.4	4995.4	4995.4	4995.4	4995.4	4995.4	4995.4	4995.4	4995.4
2.5°	4798.2	4807.9	4796.7	4811.0	4834.8	4860.3	4877.8	4903.1	4931.8	4971.6	4981.0
5°	4572.6	4586.9	4586.9	4612.3	4658.4	4699.7	4737.8	4779.2	4839.5	4907.9	4934.9
7.5°	4324.6	4332.5	4346.9	4385.0	4451.8	4510.6	4564.7	4631.4	4714.0	4804.5	4852.3
10°	4025.8	4036.9	4059.2	4113.3	4203.9	4284.9	4362.7	4454.9	4559.8	4672.7	4733.1
12.5°	3814.5	3811.3	3820.8	3860.5	3940.0	4038.6	4151.5	4269.0	4397.8	4529.7	4602.8
15°	3742.9	3725.4	3688.9	3679.3	3722.3	3820.8	3951.2	4095.8	4249.9	4408.8	4499.4
17.5°	3787.5	3757.2	3657.1	3584.0	3577.5	3652.3	3790.6	3952.7	4130.8	4324.6	4437.4
20°	4067.1	3995.6	3749.2	3579.3	3520.5	3556.9	3677.7	3849.4	4059.2	4316.8	4461.3
22.5°	4736.3	4631.4	4108.4	3792.2	3593.5	3549.1	3639.7	3822.4	4067.1	4415.2	4599.6
25°	5710.6	5561.2	4725.1	4323.1	3913.0	3676.1	3696.8	3884.3	4180.0	4644.1	4866.6
27.5°	6479.8	6382.8	5530.9	5071.6	4494.7	4019.4	3882.7	4040.2	4410.5	5019.2	5246.4
30°	6937.5	6878.8	6392.4	5920.3	5236.9	4566.2	4238.8	4332.5	4771.3	5538.9	5726.4
32.5°	7468.4	7433.5	7195.0	6761.1	6038.0	5284.7	4803.0	4769.6	5254.4	6163.6	6249.3
35°	8018.3	8007.2	7867.3	7555.9	6897.7	6231.8	5551.6	5326.0	5780.5	6812.0	6757.9
37.5°	8530.1	8511.0	8429.9	8248.7	7797.4	7249.1	6314.5	5896.5	6347.9	7431.9	7191.8
40°	9472.6	9323.1	9045.0	8908.4	8706.5	8105.7	6920.1	6429.0	6935.9	8023.0	7566.9
42.5°	10621.6	10378.4	9860.3	9672.8	9644.2	8781.1	7333.3	6945.5	7528.7	8609.5	7935.6
45°	11526.0	11297.1	10850.5	10613.7	10718.6	9393.1	7748.1	7497.0	8139.0	9224.6	8315.5
47.5°	12490.7	12131.5	11540.3	11611.8	11840.7	9971.6	8170.9	8089.8	8808.2	9912.8	8787.5
50°	12525.7	12250.7	11991.6	12419.2	12775.2	10504.0	8700.1	8711.2	9626.8	10779.0	9415.3
52.5°	11799.4	11740.6	12152.2	12824.6	13337.9	10925.2	9302.5	9353.3	10674.1	11773.9	10105.1
55°	11545.1	11478.3	11953.5	12683.1	13414.2	11273.3	9955.7	10047.9	11940.8	12822.8	10777.5
57.5°	12164.9	12017.1	12048.9	12616.2	13228.2	11654.6	10667.7	10853.7	13317.2	13740.0	11209.7
60°	13897.3	13581.0	12980.2	12965.9	13328.3	12226.8	11491.1	11718.3	14747.6	14178.6	11041.2
62.5°	16327.3	16011.2	14885.9	14153.2	14099.2	13170.9	12501.9	12562.3	15574.1	13584.2	10012.9
65°	18957.8	18674.9	17417.7	16383.1	15884.0	14734.9	13676.4	12938.9	15303.8	11948.8	8213.8
67.5°	22150.7	21847.3	20766.5	19811.3	19331.4	17258.8	14501.2	12578.2	13589.0	9256.5	5904.5
70°	24383.8	24073.9	23648.0	24421.9	25596.5	20899.9	14607.8	11111.1	10149.6	6152.4	3553.7
72.5°	21470.5	21326.0	22103.1	25362.9	30255.0	23109.2	13204.3	8089.8	5894.9	3266.1	2056.6
73°	19671.5	19639.7	20965.2	24703.3	30288.3	22769.1	12589.3	7519.2	5055.8	2889.5	1880.3
75°	8882.9	9138.8	12044.0	18868.8	26314.9	18762.3	8860.6	4313.5	2856.0	1996.2	1419.3
77.5°	2134.5	2223.5	3768.4	8960.8	16618.3	11181.0	4014.7	2133.0	1826.2	1409.8	1036.3
80°	909.1	939.3	1451.1	3310.7	7824.4	4502.7	1850.0	1428.8	1263.6	983.8	726.3
82.5°	505.5	537.2	823.3	1502.0	3158.0	1535.3	1128.4	995.0	831.3	592.8	472.0
85°	286.0	303.5	481.7	839.2	1338.2	616.7	675.4	661.1	468.8	305.2	232.0
87.5°	135.1	146.2	232.0	389.4	524.5	241.6	343.3	378.2	294.0	186.0	120.8
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°	4995.4	4995.4	4995.4	4995.4	4995.4	4995.4	4995.4	4995.4	4995.4	4995.4
2.5°	4992.2	5020.8	5054.2	5071.6	5087.5	5106.6	5125.7	5125.7	5128.8	5130.5
5°	4957.2	5016.0	5068.4	5090.7	5095.5	5095.5	5090.7	5065.3	5043.0	5052.5
7.5°	4884.1	4969.8	5014.5	5006.5	4946.0	4876.1	4817.3	4745.7	4709.3	4702.8
10°	4779.2	4877.8	4885.6	4806.2	4656.8	4507.4	4383.5	4262.6	4205.4	4191.0
12.5°	4663.1	4753.8	4702.8	4539.1	4299.3	4081.5	3924.1	3801.7	3747.7	3733.4
15°	4569.4	4631.4	4502.7	4245.2	3943.1	3712.7	3582.4	3491.8	3453.6	3442.5
17.5°	4520.2	4532.8	4297.6	3949.5	3628.5	3436.2	3355.2	3312.2	3297.9	3290.1
20°	4544.0	4454.9	4102.1	3674.6	3370.9	3235.9	3216.8	3205.7	3202.5	3197.8
22.5°	4663.1	4431.1	3922.5	3414.0	3145.3	3086.6	3102.4	3100.8	3097.6	3094.4
25°	4876.1	4451.8	3747.7	3166.0	2956.2	2943.5	2972.1	2972.1	2959.4	2959.4
27.5°	5157.5	4494.7	3552.2	2930.8	2784.6	2786.1	2808.4	2802.1	2787.8	2778.1
30°	5500.7	4521.7	3323.3	2719.4	2624.0	2617.7	2624.0	2597.0	2554.1	2550.8
32.5°	5852.0	4488.4	3057.9	2531.9	2454.0	2439.6	2434.9	2396.7	2347.4	2333.1
35°	6169.9	4366.0	2787.8	2382.4	2291.8	2260.0	2282.3	2269.7	2225.1	2213.9
37.5°	6401.9	4138.6	2544.5	2250.5	2175.8	2167.9	2182.2	2187.0	2134.5	2123.4
40°	6557.6	3830.3	2336.4	2139.3	2153.6	2123.4	2075.7	2042.3	2026.4	2021.7
42.5°	6683.3	3509.3	2161.4	2086.9	2158.3	2070.9	1967.6	1913.5	1942.2	1954.8
45°	6827.8	3196.2	2015.3	2021.7	2134.5	2010.5	1892.9	1840.5	1851.6	1854.7
47.5°	7026.6	2814.7	1858.0	1916.7	2055.0	1969.2	1846.8	1772.0	1719.6	1695.8
50°	7301.5	2363.4	1694.3	1799.2	1977.1	1939.1	1775.4	1695.8	1598.9	1576.6
52.5°	7492.2	1942.2	1559.1	1700.6	1907.2	1878.6	1718.1	1614.8	1513.0	1494.0
55°	7388.8	1613.2	1441.5	1591.0	1815.1	1803.9	1670.5	1532.2	1452.7	1436.8
57.5°	6872.4	1405.0	1351.0	1487.7	1702.2	1740.4	1606.8	1462.2	1405.0	1393.8
60°	5887.0	1274.6	1293.7	1417.7	1610.1	1676.8	1543.3	1424.0	1386.0	1378.0
62.5°	4567.8	1187.2	1250.8	1366.9	1538.5	1632.3	1508.4	1419.3	1405.0	1395.5
65°	3272.5	1117.2	1204.7	1316.0	1473.4	1591.0	1495.5	1412.9	1416.1	1408.2
67.5°	2223.5	1055.3	1149.1	1258.7	1409.8	1554.4	1478.1	1390.7	1430.4	1420.9
70°	1556.0	995.0	1084.0	1185.7	1330.3	1503.5	1446.3	1357.3	1354.2	1316.0
72.5°	1214.3	915.5	995.0	1084.0	1228.6	1432.1	1382.7	1282.6	1230.1	1190.4
73°	1158.5	896.4	972.7	1061.7	1206.3	1414.5	1365.3	1262.0	1203.2	1166.6
75°	958.4	813.8	883.7	963.1	1110.9	1331.9	1279.4	1168.2	1093.4	1071.2
77.5°	753.4	696.1	762.8	834.4	979.1	1211.1	1152.2	1045.8	1004.4	985.4
80°	557.9	576.9	635.8	699.4	848.7	1082.3	1029.9	923.5	1107.8	1061.7
82.5°	392.6	437.0	491.1	548.4	712.1	956.8	893.2	783.5	810.6	673.9
85°	232.0	286.0	336.9	386.2	513.4	793.1	737.5	624.6	511.8	488.0
87.5°	135.1	159.0	173.2	224.1	352.8	597.6	519.7	462.5	265.4	179.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)