

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: P193255

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193255
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 26990.3 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 226
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

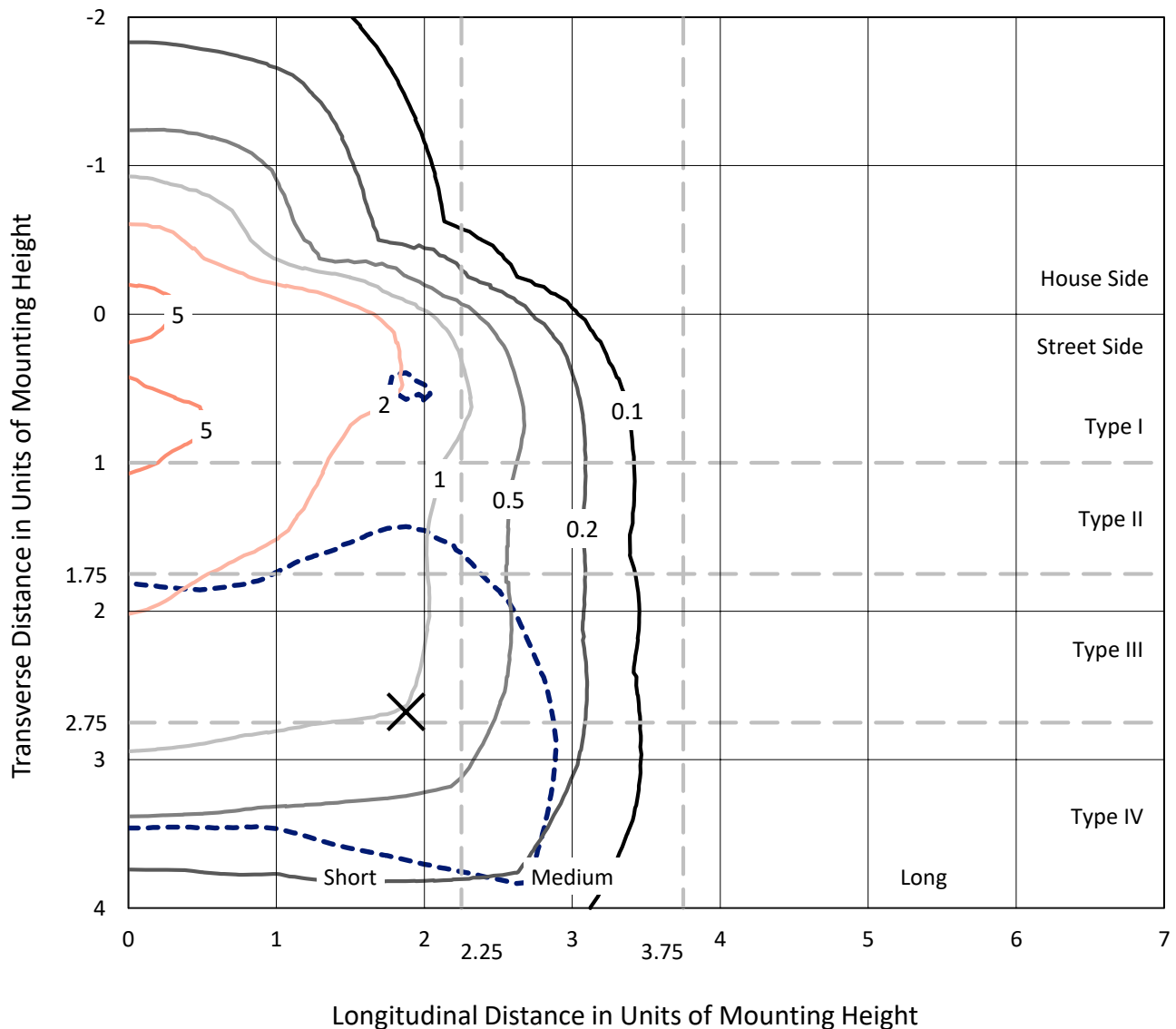


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

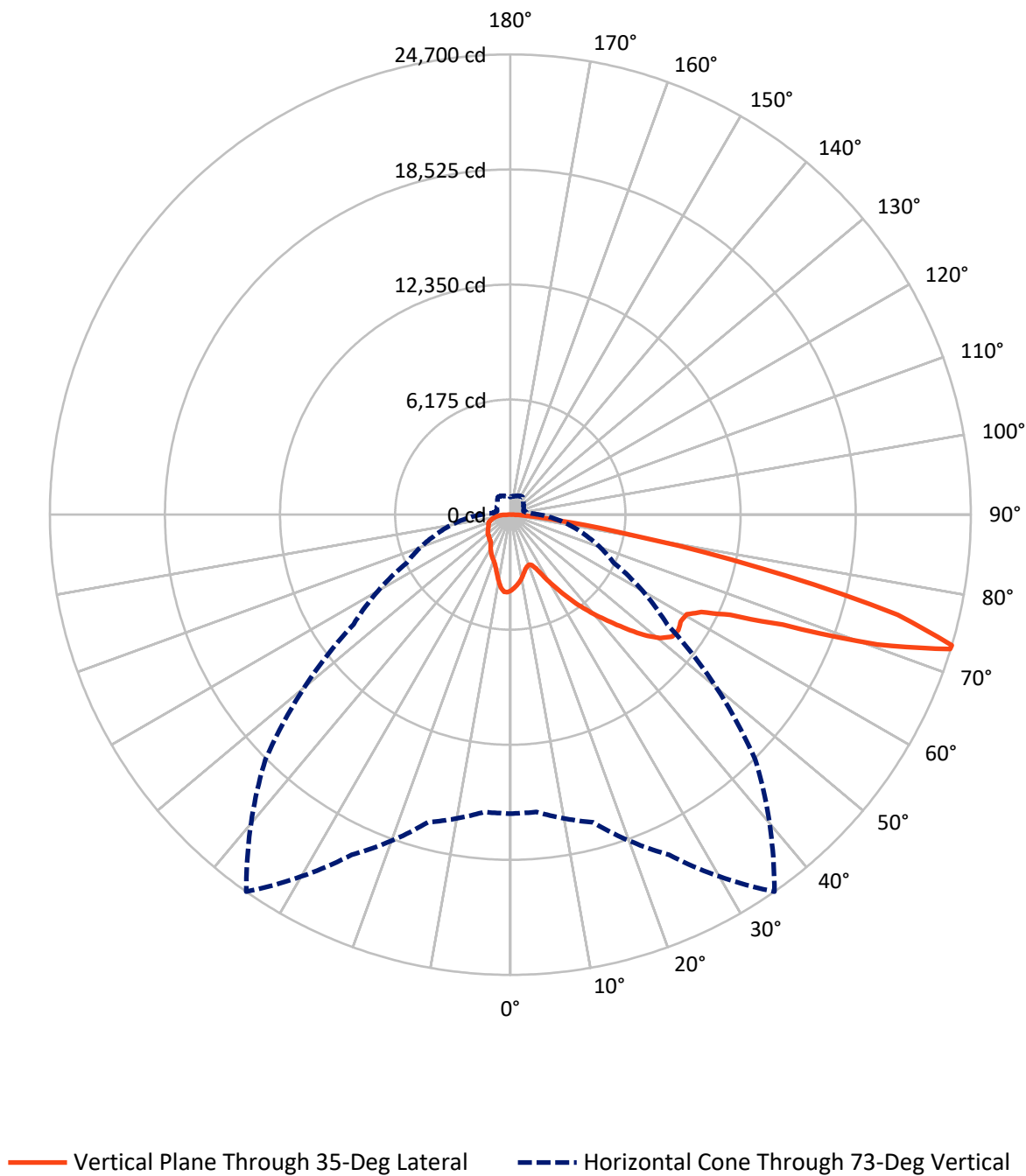


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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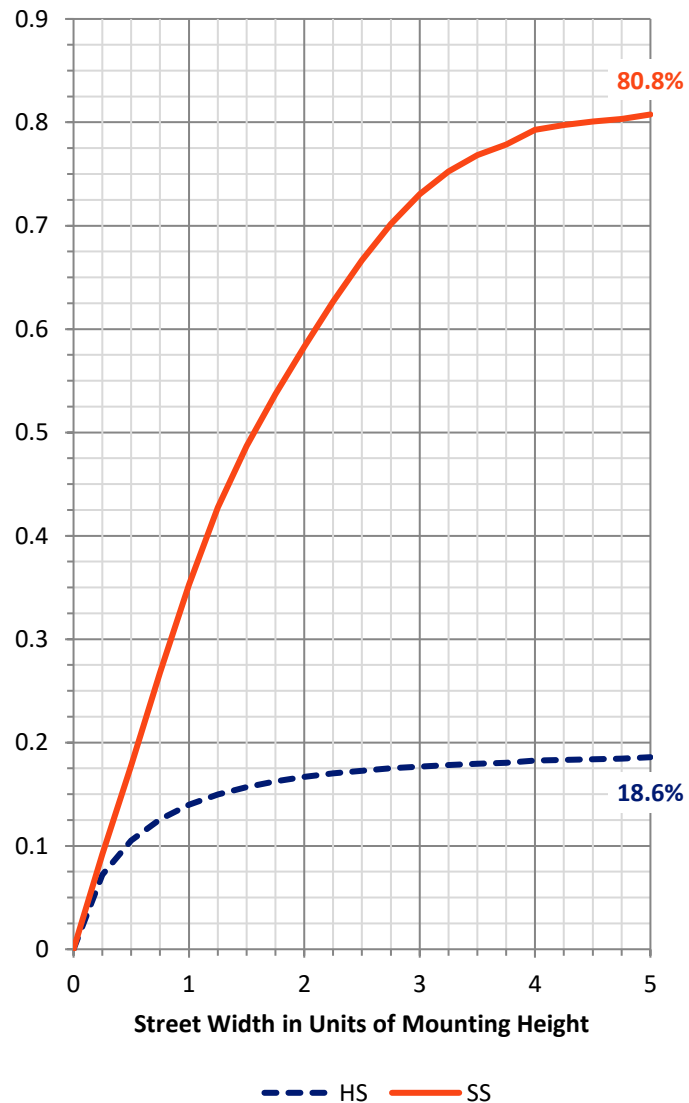
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5147.8	0.0	5147.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	21842.5	0.0	21842.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	26990.3	0.0	26990.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.8	1.4
10°-20°	920.4	3.4
20°-30°	1488.0	5.5
30°-40°	2495.2	9.2
40°-50°	3846.2	14.3
50°-60°	5160.1	19.1
60°-70°	6874.3	25.5
70°-80°	5243.0	19.4
80°-90°	594.3	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°	26990.3	100.0
0°-180°	26990.3	100.0

Coefficient of Utilization



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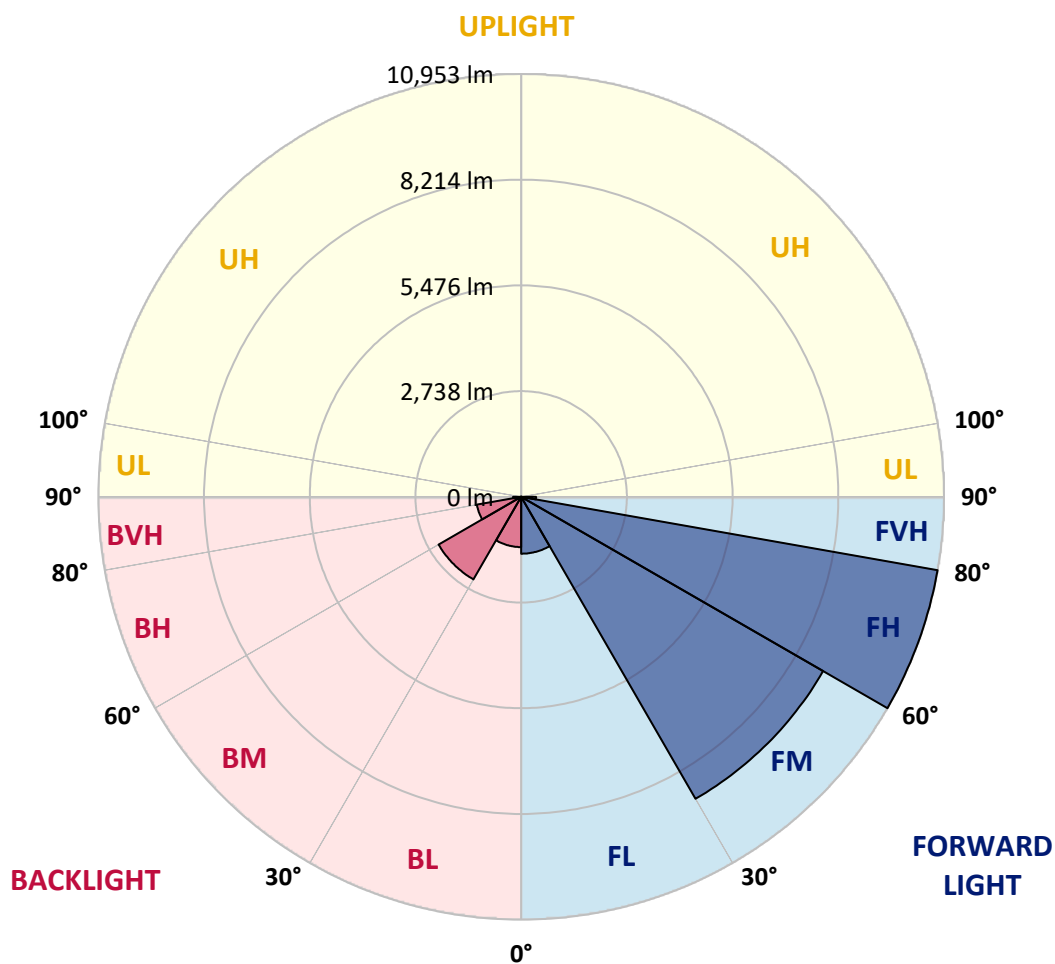
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1474.6	5.5			
FM	(30°-60°)	9031.1	33.5			
FH	(60°-80°)	10952.7	40.6			G4/12000
FVH	(80°-90°)	384.1	1.4			G3/500
BL	(0°-30°)	1302.6	4.8	B3/2500		
BM	(30°-60°)	2470.4	9.2	B2/2500		
BH	(60°-80°)	1164.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	210.1	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4073.7	4073.7	4073.7	4073.7	4073.7	4073.7	4073.7	4073.7	4073.7	4073.7	4073.7
2.5°	3913.0	3920.8	3911.7	3923.3	3942.7	3963.5	3977.8	3998.5	4021.9	4054.3	4062.0
5°	3728.9	3740.6	3740.6	3761.4	3799.0	3832.6	3863.7	3897.4	3946.7	4002.3	4024.4
7.5°	3526.7	3533.2	3544.9	3575.9	3630.3	3678.3	3722.5	3776.9	3844.3	3918.1	3957.1
10°	3283.0	3292.1	3310.2	3354.4	3428.2	3494.3	3557.8	3633.0	3718.5	3810.5	3859.8
12.5°	3110.7	3108.1	3115.8	3148.3	3213.1	3293.4	3385.4	3481.3	3586.3	3693.9	3753.5
15°	3052.3	3038.1	3008.2	3000.5	3035.4	3115.8	3222.2	3340.0	3465.8	3595.4	3669.3
17.5°	3088.6	3063.9	2982.3	2922.6	2917.5	2978.5	3091.3	3223.4	3368.6	3526.7	3618.7
20°	3316.8	3258.4	3057.5	2918.9	2870.9	2900.8	2999.1	3139.1	3310.2	3520.3	3638.3
22.5°	3862.5	3776.9	3350.4	3092.5	2930.6	2894.2	2968.1	3117.1	3316.8	3600.6	3751.0
25°	4656.9	4535.2	3853.3	3525.5	3191.0	2997.8	3014.8	3167.7	3408.8	3787.3	3968.8
27.5°	5284.3	5205.2	4510.4	4135.9	3665.4	3277.9	3166.5	3294.7	3596.7	4093.1	4278.5
30°	5657.6	5609.6	5213.0	4828.0	4270.7	3723.8	3456.8	3533.2	3890.9	4517.0	4669.8
32.5°	6090.4	6061.9	5867.4	5513.7	4923.9	4309.6	3916.8	3889.6	4284.9	5026.4	5096.3
35°	6538.8	6529.8	6415.7	6161.6	5625.1	5082.0	4527.2	4343.3	4714.0	5555.2	5511.0
37.5°	6956.2	6940.7	6874.6	6726.8	6358.7	5911.6	5149.5	4808.6	5176.7	6060.6	5864.9
40°	7724.8	7603.1	7376.2	7264.6	7100.1	6610.1	5643.2	5242.8	5656.3	6542.8	6170.8
42.5°	8661.8	8463.7	8041.1	7888.1	7864.8	7161.0	5980.3	5664.0	6139.8	7021.0	6471.5
45°	9399.3	9212.7	8848.6	8655.4	8741.0	7660.0	6318.6	6113.7	6637.4	7522.6	6781.2
47.5°	10186.1	9893.2	9411.0	9469.4	9656.0	8131.8	6663.2	6597.2	7183.0	8083.9	7166.2
50°	10214.6	9990.4	9779.1	10127.8	10418.1	8566.0	7094.9	7104.0	7850.5	8790.2	7678.2
52.5°	9622.4	9574.4	9910.1	10458.3	10877.0	8909.4	7586.1	7627.6	8704.6	9601.6	8240.7
55°	9415.0	9360.5	9748.0	10342.9	10939.1	9193.3	8118.8	8194.0	9737.7	10456.9	8789.0
57.5°	9920.4	9799.9	9825.8	10288.5	10787.5	9504.4	8699.6	8851.1	10860.2	11204.9	9141.5
60°	11333.3	11075.3	10585.4	10573.7	10869.2	9971.0	9370.8	9556.3	12026.6	11562.6	9004.0
62.5°	13315.0	13057.0	12139.4	11541.8	11497.8	10740.8	10195.2	10244.4	12700.7	11077.9	8165.5
65°	15459.9	15229.3	14204.0	13360.3	12953.3	12016.3	11153.0	10551.6	12480.2	9744.2	6698.2
67.5°	18064.0	17816.4	16934.9	16156.0	15764.6	14074.4	11825.6	10257.4	11081.7	7548.5	4815.0
70°	19884.9	19632.1	19284.8	19916.0	20873.9	17043.9	11912.5	9061.1	8276.9	5017.3	2898.1
72.5°	17509.2	17391.3	18025.0	20683.4	24672.8	18845.5	10768.0	6597.2	4807.3	2663.5	1677.1
73°	16042.0	16016.1	17097.0	20145.4	24700.0	18568.1	10266.5	6131.8	4122.9	2356.2	1533.4
75°	7244.0	7452.7	9822.0	15387.4	21459.7	15300.5	7225.9	3517.6	2329.1	1628.0	1157.4
77.5°	1740.7	1813.2	3073.0	7307.5	13552.2	9118.1	3274.0	1739.4	1489.2	1149.6	845.0
80°	741.4	766.0	1183.4	2699.8	6380.7	3671.8	1508.7	1165.2	1030.5	802.3	592.3
82.5°	412.1	438.1	671.4	1224.8	2575.3	1252.0	920.3	811.4	677.9	483.5	384.9
85°	233.3	247.6	392.7	684.4	1091.3	502.9	550.8	539.2	382.3	248.9	189.2
87.5°	110.2	119.2	189.2	317.5	427.7	197.0	279.9	308.4	239.9	151.7	98.6
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°	4073.7	4073.7	4073.7	4073.7	4073.7	4073.7	4073.7	4073.7	4073.7	4073.7
2.5°	4071.1	4094.4	4121.6	4135.9	4148.9	4164.4	4179.9	4179.9	4182.6	4183.9
5°	4042.6	4090.5	4133.3	4151.5	4155.3	4155.3	4151.5	4130.6	4112.5	4120.3
7.5°	3982.9	4053.0	4089.2	4082.8	4033.6	3976.5	3928.5	3870.2	3840.4	3835.2
10°	3897.4	3977.8	3984.2	3919.4	3797.7	3675.8	3574.6	3476.2	3429.5	3417.8
12.5°	3802.8	3876.6	3835.2	3701.7	3506.0	3328.4	3200.1	3100.3	3056.2	3044.6
15°	3726.3	3776.9	3671.8	3461.9	3215.6	3027.7	2921.5	2847.6	2816.4	2807.4
17.5°	3686.2	3696.5	3504.7	3220.9	2959.1	2802.2	2736.1	2701.1	2689.4	2683.0
20°	3705.5	3633.0	3345.3	2996.7	2749.1	2638.8	2623.4	2614.2	2611.7	2607.8
22.5°	3802.8	3613.5	3198.8	2784.0	2565.0	2517.0	2530.0	2528.7	2526.1	2523.6
25°	3976.5	3630.3	3056.2	2581.9	2410.8	2400.4	2423.7	2423.7	2413.3	2413.3
27.5°	4205.8	3665.4	2896.8	2390.0	2270.7	2272.0	2290.2	2285.0	2273.3	2265.6
30°	4485.8	3687.4	2710.1	2217.6	2139.9	2134.7	2139.9	2117.9	2082.8	2080.3
32.5°	4772.3	3660.1	2493.8	2064.7	2001.2	1989.5	1985.7	1954.5	1914.3	1902.6
35°	5031.5	3560.4	2273.3	1942.8	1869.0	1843.1	1861.2	1850.9	1814.6	1805.5
37.5°	5220.7	3375.0	2075.1	1835.3	1774.4	1768.0	1779.7	1783.4	1740.7	1731.6
40°	5347.8	3123.6	1905.3	1744.6	1756.3	1731.6	1692.8	1665.5	1652.5	1648.6
42.5°	5450.2	2861.8	1762.7	1701.8	1760.1	1688.8	1604.6	1560.5	1583.8	1594.2
45°	5568.1	2606.5	1643.5	1648.6	1740.7	1639.6	1543.7	1500.9	1510.0	1512.5
47.5°	5730.1	2295.4	1515.2	1563.1	1675.8	1605.9	1506.0	1445.2	1402.4	1383.0
50°	5954.3	1927.4	1381.7	1467.3	1612.3	1581.3	1447.8	1383.0	1303.9	1285.8
52.5°	6109.9	1583.8	1271.4	1386.8	1555.3	1532.1	1401.1	1316.9	1233.9	1218.4
55°	6025.6	1315.6	1175.5	1297.5	1480.1	1471.0	1362.3	1249.5	1184.7	1171.7
57.5°	5604.4	1145.8	1101.7	1213.1	1388.1	1419.3	1310.3	1192.4	1145.8	1136.8
60°	4800.8	1039.5	1055.0	1156.2	1313.0	1367.4	1258.5	1161.3	1130.2	1123.7
62.5°	3724.9	968.1	1020.1	1114.7	1254.7	1331.1	1230.0	1157.4	1145.8	1137.9
65°	2668.6	911.1	982.5	1073.2	1201.6	1297.5	1219.7	1152.2	1154.9	1148.4
67.5°	1813.2	860.6	937.1	1026.5	1149.6	1267.6	1205.3	1134.1	1166.5	1158.7
70°	1268.9	811.4	883.9	967.0	1084.8	1226.1	1179.5	1106.9	1104.3	1073.2
72.5°	990.2	746.6	811.4	883.9	1001.9	1167.8	1127.7	1045.9	1003.2	970.8
73°	944.9	731.1	793.2	865.8	983.8	1153.6	1113.4	1029.1	981.1	951.3
75°	781.5	663.6	720.7	785.5	906.0	1086.1	1043.3	952.6	891.8	873.5
77.5°	614.4	567.7	622.1	680.4	798.3	987.6	939.6	852.9	819.1	803.6
80°	454.9	470.5	518.4	570.4	692.1	882.7	839.8	753.1	903.3	865.8
82.5°	320.1	356.4	400.6	447.2	580.6	780.2	728.4	638.9	661.0	549.6
85°	189.2	233.3	274.8	315.0	418.7	646.7	601.4	509.3	417.4	397.9
87.5°	110.2	129.6	141.3	182.8	287.8	487.3	423.8	377.2	216.5	146.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)