

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: P194905

Luminaire Tested: **GLEON-AF-07-LED-E1-T4W-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33779 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-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



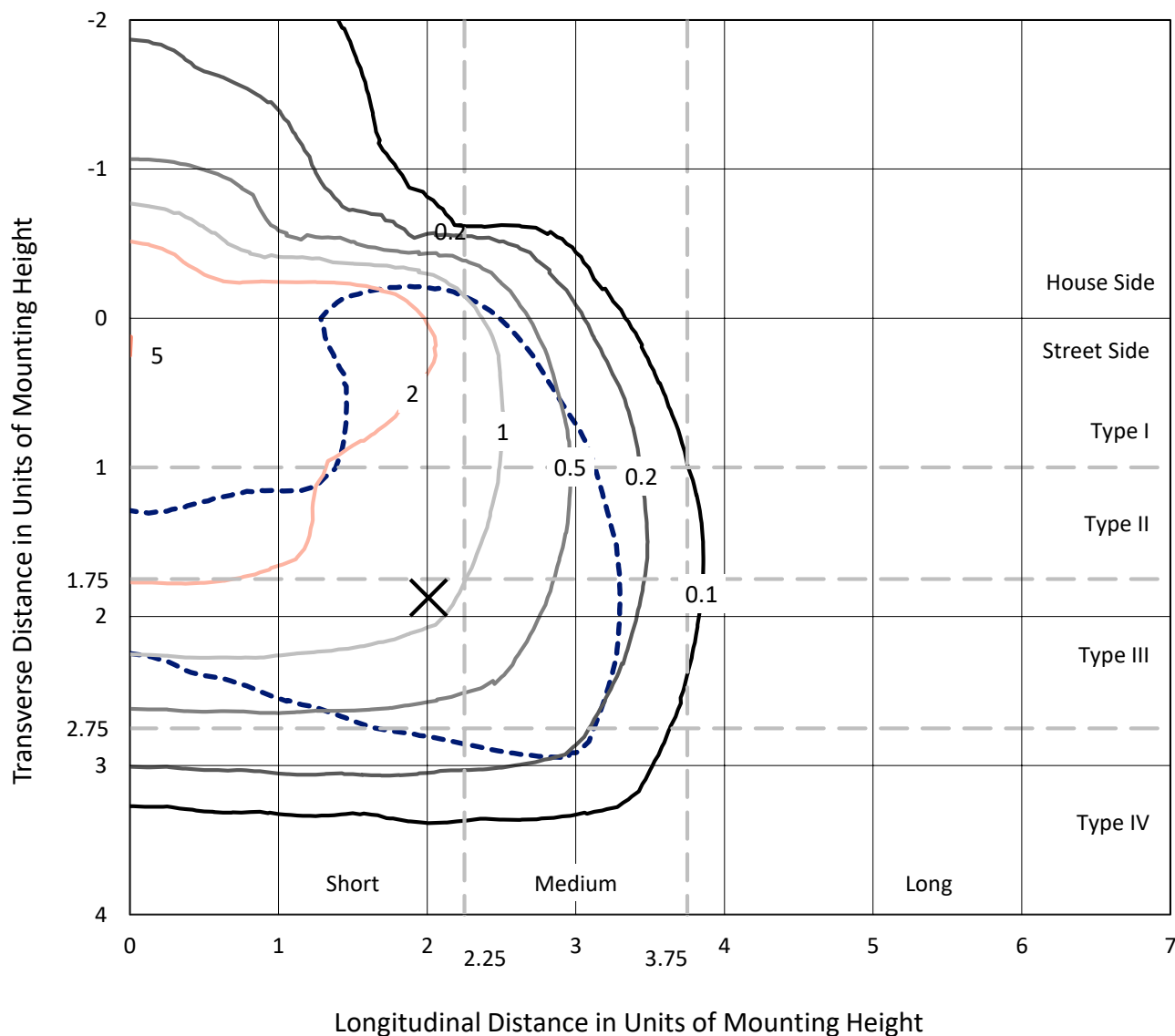
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

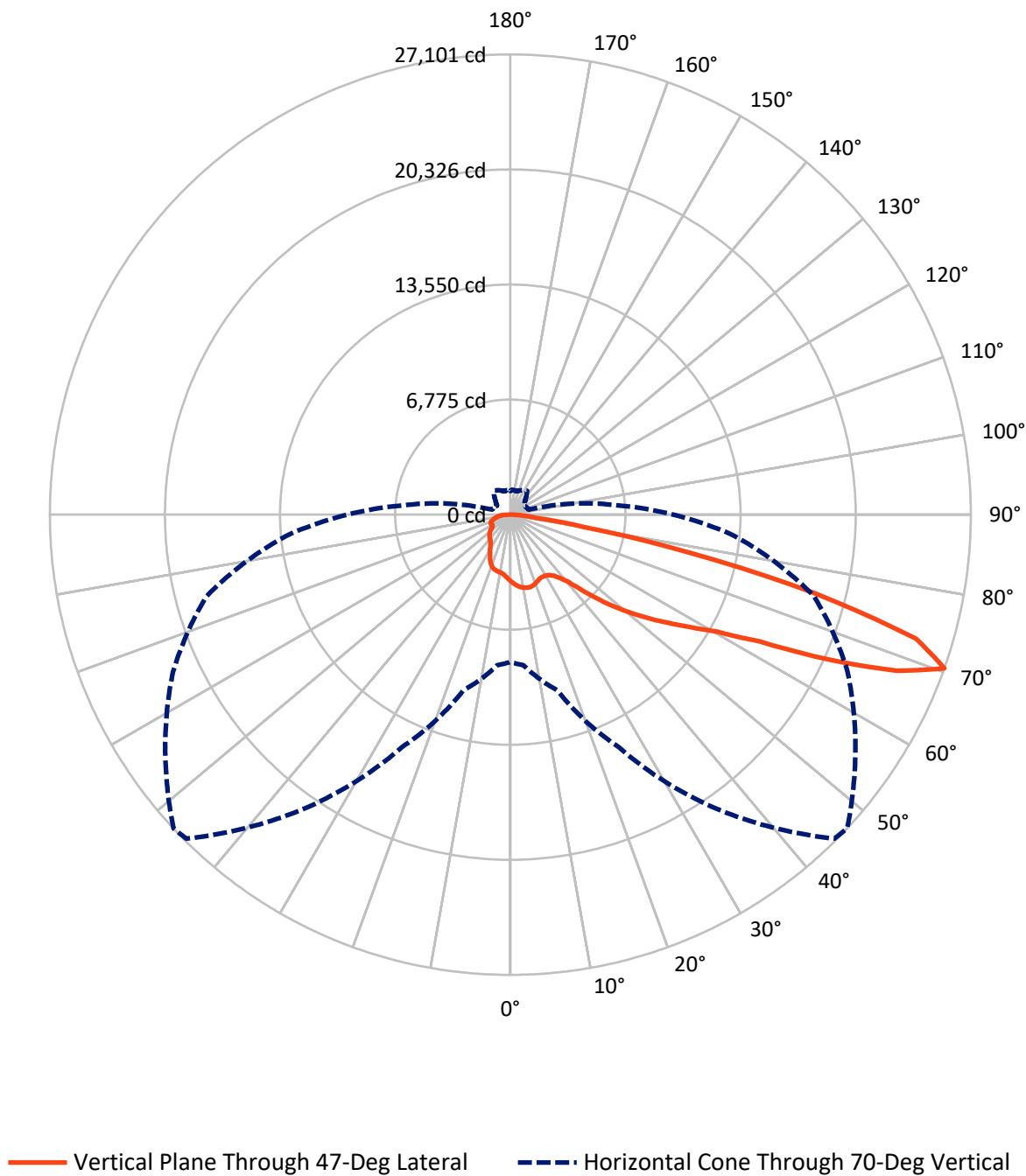


Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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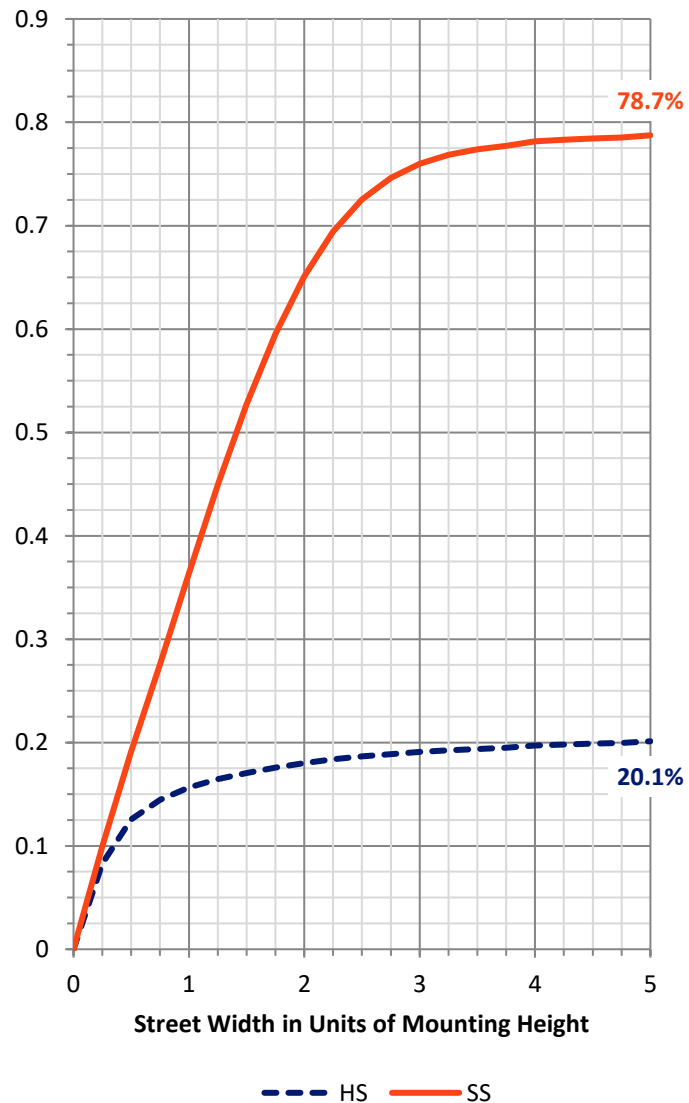
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7047.0	0.0	7047.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	26732.0	0.0	26732.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	33779.0	0.0	33779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.5	1.1
10°-20°	1101.8	3.3
20°-30°	1627.0	4.8
30°-40°	2364.8	7.0
40°-50°	4255.8	12.6
50°-60°	7372.8	21.8
60°-70°	10523.1	31.2
70°-80°	5402.0	16.0
80°-90°	756.3	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°	33779.0	100.0
0°-180°	33779.0	100.0

Coefficient of Utilization



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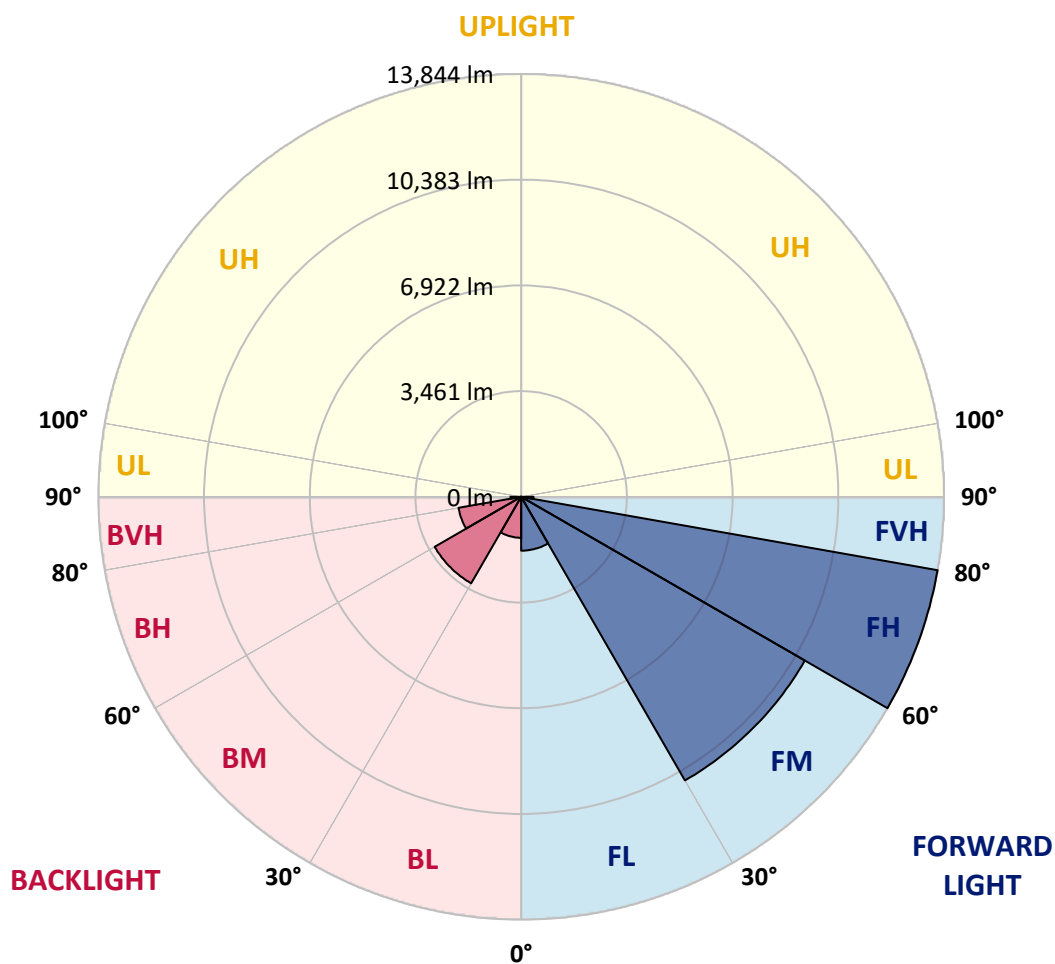
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1762.5	5.2			
FM	(30°-60°)	10722.4	31.7			
FH	(60°-80°)	13843.6	41.0			G5
FVH	(80°-90°)	403.6	1.2			G3/500
BL	(0°-30°)	1341.8	4.0	B3/2500		
BM	(30°-60°)	3271.0	9.7	B3/5000		
BH	(60°-80°)	2081.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	352.7	1.0			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°	47°	55°	65°	75°	85°
0°	3919.4	3919.4	3919.4	3919.4	3919.4	3919.4	3919.4	3919.4	3919.4	3919.4	3919.4
2.5°	4149.5	4141.3	4138.0	4131.4	4123.2	4082.1	4073.9	4044.3	4003.2	3960.5	3916.1
5°	4422.3	4420.6	4402.6	4369.7	4317.1	4226.7	4205.4	4133.1	4036.1	3942.4	3848.8
7.5°	4662.2	4647.4	4612.9	4547.2	4455.2	4331.9	4302.3	4202.1	4069.0	3940.8	3814.2
10°	4838.1	4829.8	4754.2	4663.9	4543.9	4407.5	4373.0	4261.2	4115.0	3952.3	3794.5
12.5°	4938.3	4921.9	4834.8	4726.3	4583.3	4450.2	4415.7	4302.3	4138.0	3952.3	3766.6
15°	4931.7	4920.2	4833.1	4714.8	4570.2	4453.5	4422.3	4308.9	4133.1	3935.8	3730.4
17.5°	4800.3	4805.2	4731.2	4614.6	4496.2	4407.5	4379.6	4274.4	4100.2	3903.0	3687.7
20°	4570.2	4593.2	4543.9	4440.4	4374.6	4313.8	4295.7	4207.0	4049.2	3855.3	3641.7
22.5°	4340.1	4361.5	4341.8	4254.7	4244.8	4208.6	4198.8	4134.7	4004.9	3825.7	3613.8
25°	4170.8	4190.6	4187.3	4111.7	4141.3	4139.6	4131.4	4100.2	3995.0	3825.7	3618.7
27.5°	4124.8	4131.4	4124.8	4055.8	4096.9	4129.8	4123.2	4118.3	4024.6	3873.4	3681.1
30°	4282.6	4272.7	4221.8	4082.1	4119.9	4165.9	4159.3	4162.6	4113.3	3998.3	3820.8
32.5°	4912.0	4867.6	4706.6	4313.8	4213.6	4238.2	4241.5	4295.7	4304.0	4190.6	4037.7
35°	5853.7	5804.4	5595.6	4935.0	4504.5	4419.0	4419.0	4501.2	4550.5	4466.7	4374.6
37.5°	6851.2	6796.9	6685.2	5796.1	5115.8	4732.9	4724.7	4782.2	4852.8	4872.6	4895.6
40°	7985.1	7927.6	7958.8	6762.4	5968.7	5276.8	5160.2	5119.1	5309.7	5436.2	5620.3
42.5°	9225.8	9199.5	9211.0	7838.8	6939.9	6090.3	5924.3	5712.3	5942.4	6167.5	6553.7
45°	10374.5	10397.5	10386.0	8990.8	8021.2	7082.9	6907.0	6496.2	6721.3	7107.5	7736.9
47.5°	11380.3	11285.0	11432.9	10249.6	9232.4	8193.8	7976.9	7426.3	7654.8	8131.3	9196.2
50°	12601.3	12588.1	12371.2	11929.2	10696.6	9309.6	9025.3	8387.7	8742.7	9405.0	11035.2
52.5°	13884.8	13646.5	13447.6	13235.6	12249.6	10453.4	10105.0	9345.8	10021.2	10854.4	13276.7
55°	14147.7	14040.9	14287.4	14644.0	13746.7	11641.6	11235.7	10547.1	11460.8	12510.9	15861.7
57.5°	14709.7	14708.1	15217.5	15853.5	15288.2	12902.0	12492.8	11998.2	13079.5	14409.0	18606.1
60°	15089.3	15196.2	16142.7	17376.9	16801.7	14358.0	13981.7	13672.8	14920.1	16530.6	21163.2
62.5°	15288.2	15432.8	16724.5	17994.8	18941.4	16782.0	16405.7	15960.3	17355.5	18857.6	22658.7
65°	14461.6	14745.9	16634.1	18528.9	20814.8	20711.3	20542.0	19759.8	20400.7	20696.5	22118.0
67.5°	12174.0	12464.9	14663.7	18031.0	22152.5	24500.9	24537.0	23201.0	22274.1	20854.2	18596.3
70°	8673.7	8902.1	10721.3	15117.3	21133.6	26977.4	27100.7	24786.8	21901.1	18494.4	12992.4
72.5°	4118.3	4257.9	5980.2	9838.8	16770.5	24717.8	24956.1	22762.2	18622.6	13692.5	7087.8
75°	1513.5	1556.3	2021.3	4185.6	9727.1	18228.2	18509.2	16316.9	12344.9	6816.7	2700.0
77.5°	907.1	935.1	1133.9	1766.6	3825.7	10418.9	10834.7	8874.1	5395.2	2537.3	1327.8
80°	634.3	654.1	813.5	1099.4	1807.7	3970.4	4340.1	3622.0	2149.5	1605.6	966.3
82.5°	428.9	438.8	571.9	742.8	1201.3	1418.2	1530.0	1610.5	1449.4	1194.7	613.0
85°	281.0	290.9	387.8	489.7	764.2	732.9	749.4	948.2	1058.3	811.8	340.2
87.5°	161.0	167.6	233.4	261.3	374.7	310.6	313.9	499.6	677.1	547.2	207.1
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°	3919.4	3919.4	3919.4	3919.4	3919.4	3919.4	3919.4	3919.4	3919.4	3919.4	3919.4
2.5°	3904.6	3883.3	3835.6	3806.0	3778.1	3771.5	3760.0	3758.4	3756.7	3756.7	3751.8
5°	3817.5	3781.4	3707.4	3666.3	3631.8	3628.5	3626.9	3635.1	3638.4	3641.7	3636.8
7.5°	3761.7	3712.4	3620.3	3561.2	3520.1	3510.2	3526.7	3564.4	3589.1	3599.0	3594.0
10°	3727.1	3666.3	3559.5	3495.4	3460.9	3456.0	3477.4	3521.7	3572.7	3592.4	3590.7
12.5°	3687.7	3618.7	3505.3	3437.9	3418.2	3428.1	3456.0	3497.1	3549.7	3580.9	3582.5
15°	3648.3	3567.7	3451.1	3391.9	3383.7	3396.8	3423.1	3454.3	3495.4	3526.7	3529.9
17.5°	3600.6	3516.8	3400.1	3339.3	3332.7	3339.3	3341.0	3357.4	3383.7	3413.3	3421.5
20°	3549.7	3464.2	3342.6	3281.8	3252.2	3225.9	3196.3	3199.6	3207.8	3237.4	3244.0
22.5°	3513.5	3428.1	3298.2	3214.4	3135.5	3056.7	2997.5	2989.3	2992.6	3017.2	3025.4
25°	3516.8	3426.4	3286.7	3142.1	2969.6	2843.0	2764.1	2751.0	2749.3	2767.4	2778.9
27.5°	3580.9	3490.5	3329.4	3068.2	2788.8	2601.4	2517.6	2507.8	2494.6	2499.6	2512.7
30°	3723.9	3640.0	3433.0	2992.6	2593.2	2364.8	2277.7	2267.8	2249.8	2241.5	2251.4
32.5°	3957.2	3888.2	3584.2	2920.3	2397.7	2162.7	2073.9	2052.6	2041.1	2031.2	2039.4
35°	4345.0	4315.5	3786.3	2841.4	2225.1	2006.5	1926.0	1893.2	1876.7	1894.8	1907.9
37.5°	4953.1	4969.5	4050.9	2718.1	2092.0	1903.0	1835.6	1797.8	1773.2	1788.0	1802.8
40°	5814.2	5825.7	4343.4	2543.9	1977.0	1842.2	1769.9	1735.4	1700.9	1674.6	1672.9
42.5°	6944.8	6828.2	4631.0	2354.9	1843.9	1804.4	1723.9	1681.2	1628.6	1556.3	1541.5
45°	8285.8	7876.6	4849.6	2138.0	1694.3	1758.4	1672.9	1613.8	1531.6	1452.7	1444.5
47.5°	9830.6	9002.3	4956.4	1912.9	1554.6	1691.0	1610.5	1516.8	1413.3	1373.8	1368.9
50°	11717.2	10338.4	5007.3	1694.3	1433.0	1602.3	1520.1	1410.0	1322.9	1314.7	1309.8
52.5°	13865.0	11945.6	5023.8	1515.2	1332.8	1487.2	1446.2	1339.3	1270.3	1276.9	1276.9
55°	16113.2	13605.4	4800.3	1385.4	1240.7	1368.9	1396.9	1311.4	1253.9	1280.2	1290.0
57.5°	18177.2	15076.2	4096.9	1285.1	1153.6	1278.5	1378.8	1337.7	1298.3	1405.1	1411.6
60°	19761.4	15945.5	3059.9	1194.7	1089.5	1247.3	1426.4	1437.9	1447.8	1702.5	1737.0
62.5°	20093.4	15656.3	2103.5	1124.1	1060.0	1273.6	1513.5	1515.2	1503.7	1681.2	1702.5
65°	18570.0	13827.2	1530.0	1084.6	1035.3	1321.3	1587.5	1553.0	1477.4	1612.1	1572.7
67.5°	14747.5	10417.3	1273.6	1055.0	999.2	1318.0	1666.4	1587.5	1462.6	1579.3	1515.2
70°	9572.6	6299.0	1133.9	1030.4	956.4	1255.5	1712.4	1584.2	1419.9	1469.2	1393.6
72.5°	4670.4	2816.7	1040.2	994.2	912.1	1168.4	1710.7	1554.6	1375.5	1372.2	1331.1
75°	1827.4	1290.0	954.8	940.0	836.5	1069.8	1664.7	1511.9	1322.9	1270.3	1255.5
77.5°	1069.8	920.3	846.3	859.5	746.1	971.2	1597.3	1437.9	1250.6	1188.1	1171.7
80°	779.0	688.6	721.4	742.8	637.6	872.6	1507.0	1347.6	1170.1	1201.3	1178.3
82.5°	499.6	443.7	585.0	606.4	530.8	772.4	1408.4	1252.2	1056.7	959.7	936.7
85°	254.7	281.0	435.5	461.8	409.2	634.3	1288.4	1125.7	928.5	798.7	811.8
87.5°	143.0	192.3	277.7	310.6	289.2	488.1	1045.2	928.5	757.6	616.3	542.3
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)