

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: P194897

Luminaire Tested: **GLEON-AF-09-LED-E1-T4W-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194897
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-09-LED-E1-T4W-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34816 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 290
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

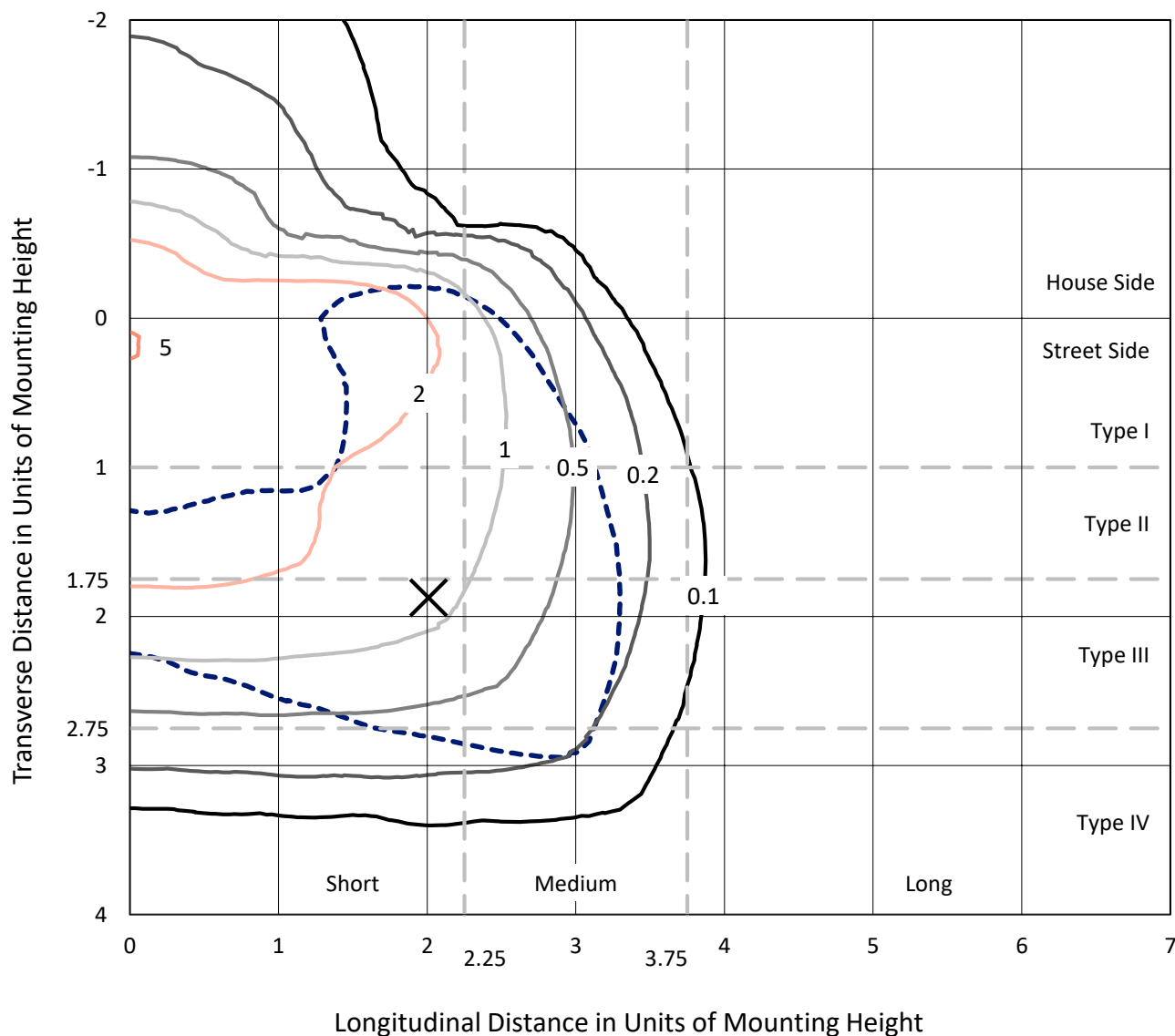


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

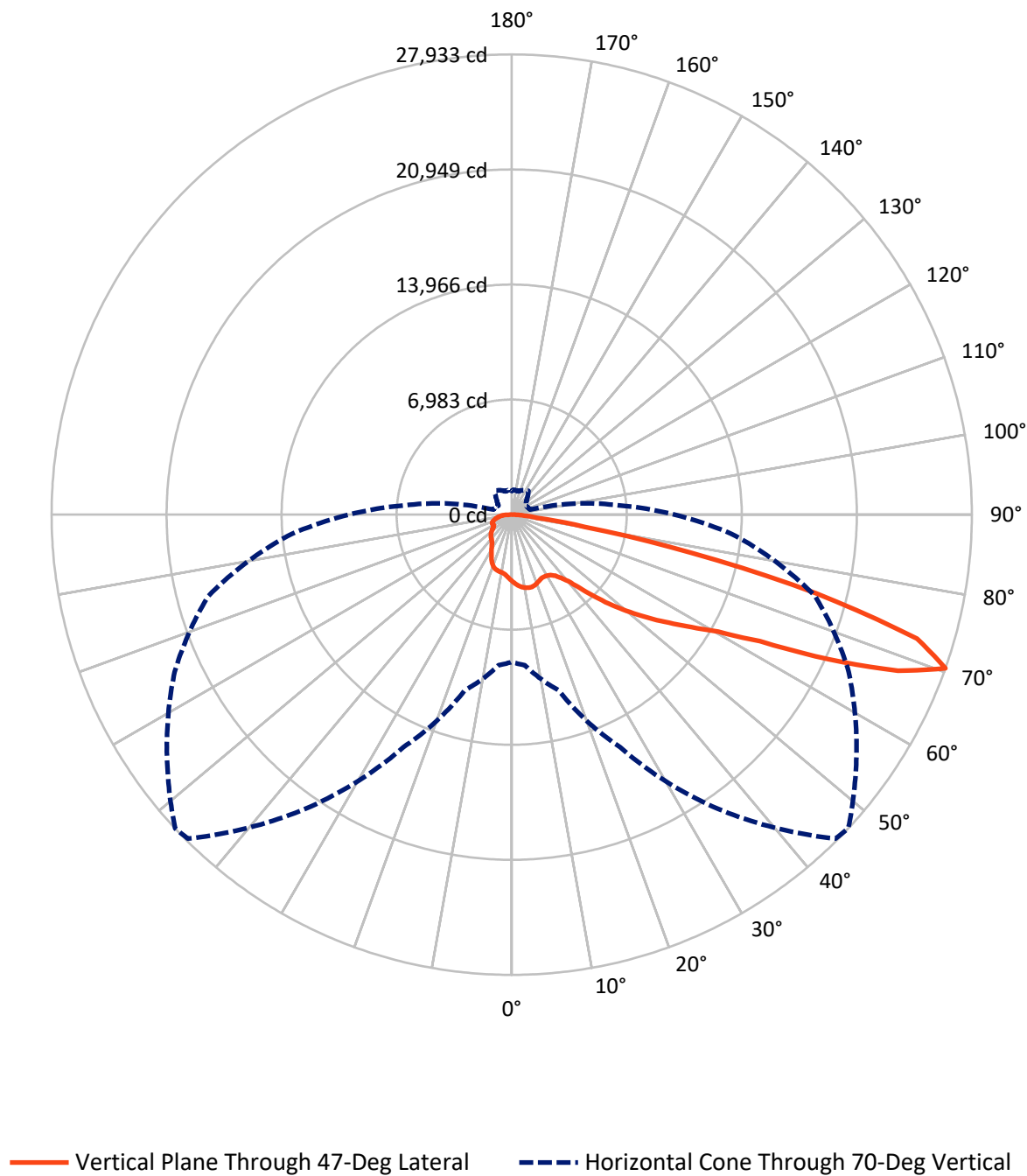


Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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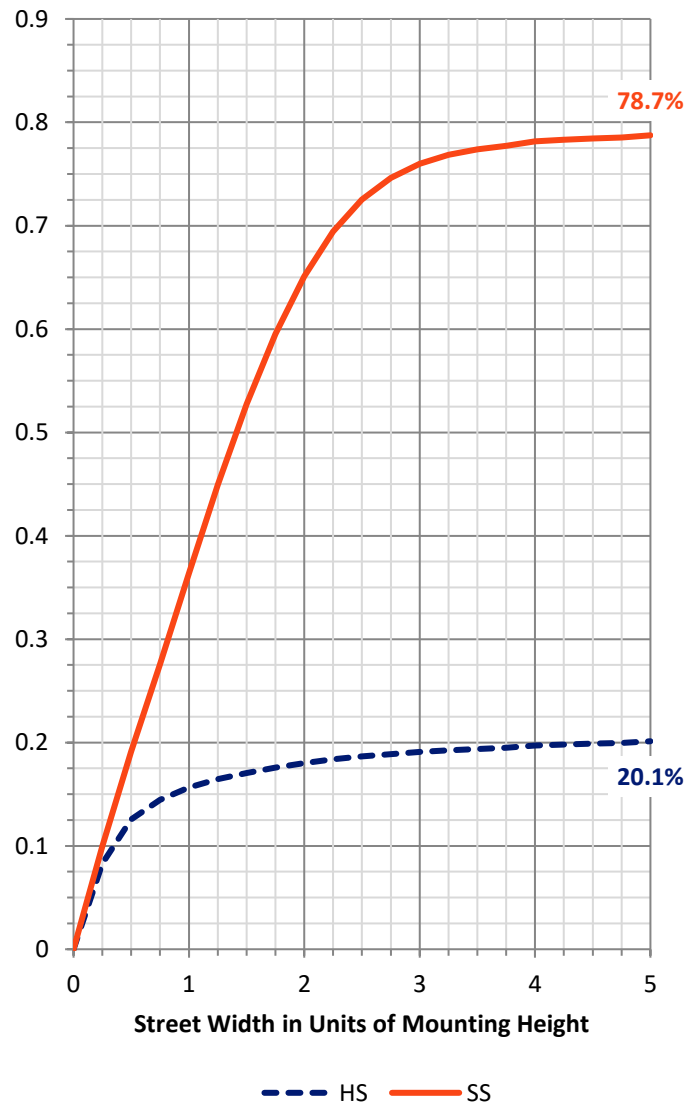
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7263.3	0.0	7263.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	27552.7	0.0	27552.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	34816.0	0.0	34816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.1	1.1
10°-20°	1135.6	3.3
20°-30°	1676.9	4.8
30°-40°	2437.4	7.0
40°-50°	4386.5	12.6
50°-60°	7599.1	21.8
60°-70°	10846.1	31.2
70°-80°	5567.8	16.0
80°-90°	779.5	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°	34816.0	100.0
0°-180°	34816.0	100.0

Coefficient of Utilization



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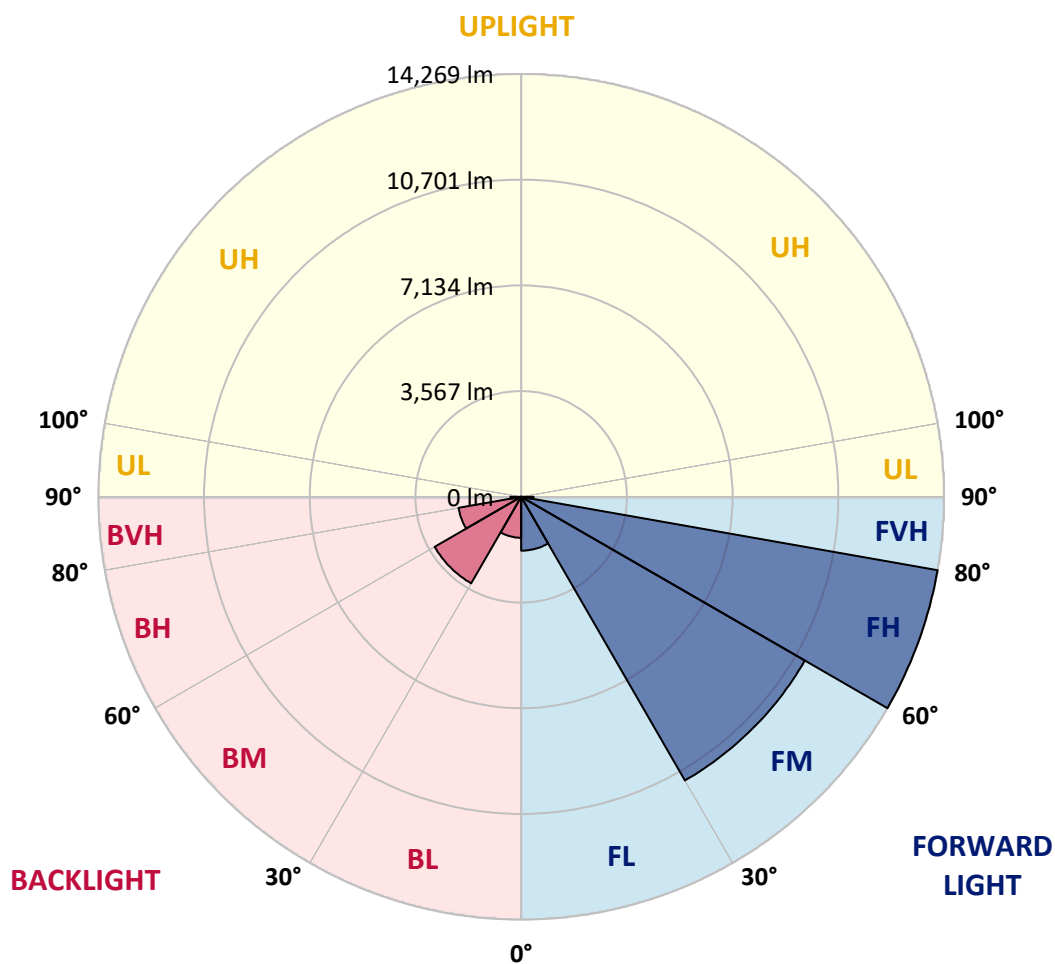
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1816.6	5.2			
FM	(30°-60°)	11051.6	31.7			
FH	(60°-80°)	14268.6	41.0			G5
FVH	(80°-90°)	415.9	1.2			G3/500
BL	(0°-30°)	1383.0	4.0	B3/2500		
BM	(30°-60°)	3371.4	9.7	B3/5000		
BH	(60°-80°)	2145.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	363.6	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°	4039.7	4039.7	4039.7	4039.7	4039.7	4039.7	4039.7	4039.7	4039.7	4039.7	4039.7
2.5°	4276.9	4268.4	4265.0	4258.2	4249.8	4207.4	4199.0	4168.5	4126.1	4082.1	4036.4
5°	4558.0	4556.4	4537.7	4503.8	4449.6	4356.5	4334.5	4259.9	4160.0	4063.5	3966.9
7.5°	4805.3	4790.1	4754.5	4686.8	4591.9	4464.9	4434.4	4331.1	4193.9	4061.8	3931.3
10°	4986.6	4978.1	4900.2	4807.0	4683.4	4542.8	4507.2	4392.1	4241.3	4073.6	3911.0
12.5°	5089.9	5073.0	4983.2	4871.4	4724.0	4586.8	4551.3	4434.4	4265.0	4073.6	3882.2
15°	5083.1	5071.3	4981.5	4859.5	4710.5	4590.2	4558.0	4441.2	4259.9	4056.7	3845.0
17.5°	4947.6	4952.7	4876.5	4756.2	4634.3	4542.8	4514.0	4405.6	4226.1	4022.8	3800.9
20°	4710.5	4734.2	4683.4	4576.7	4508.9	4446.3	4427.6	4336.2	4173.6	3973.7	3753.5
22.5°	4473.4	4495.4	4475.0	4385.3	4375.1	4337.9	4327.7	4261.6	4127.8	3943.2	3724.7
25°	4298.9	4319.2	4315.8	4237.9	4268.4	4266.7	4258.2	4226.1	4117.7	3943.2	3729.8
27.5°	4251.5	4258.2	4251.5	4180.3	4222.7	4256.5	4249.8	4244.7	4148.1	3992.3	3794.1
30°	4414.1	4403.9	4351.4	4207.4	4246.4	4293.8	4287.0	4290.4	4239.6	4121.0	3938.1
32.5°	5062.8	5017.1	4851.1	4446.3	4342.9	4368.3	4371.7	4427.6	4436.1	4319.2	4161.7
35°	6033.4	5982.5	5767.4	5086.5	4642.7	4554.7	4554.7	4639.3	4690.2	4603.8	4508.9
37.5°	7061.5	7005.6	6890.4	5974.1	5272.8	4878.2	4869.7	4929.0	5001.8	5022.2	5045.9
40°	8230.2	8170.9	8203.1	6970.0	6151.9	5438.8	5318.6	5276.2	5472.7	5603.1	5792.8
42.5°	9509.1	9482.0	9493.8	8079.5	7153.0	6277.3	6106.2	5887.7	6124.8	6356.9	6754.9
45°	10693.0	10716.7	10704.9	9266.8	8267.5	7300.3	7119.1	6695.6	6927.7	7325.7	7974.5
47.5°	11729.6	11631.4	11783.8	10564.3	9515.8	8445.3	8221.8	7654.3	7889.8	8381.0	9478.6
50°	12988.1	12974.6	12751.0	12295.4	11025.0	9595.4	9302.4	8645.2	9011.1	9693.7	11373.9
52.5°	14311.0	14065.4	13860.5	13642.0	12625.7	10774.3	10415.2	9632.7	10328.9	11187.6	13684.3
55°	14582.0	14471.9	14726.0	15093.6	14168.7	11999.0	11580.6	10870.9	11812.6	12895.0	16348.7
57.5°	15161.3	15159.6	15684.7	16340.2	15757.5	13298.1	12876.4	12366.5	13481.0	14851.3	19177.3
60°	15552.6	15662.7	16638.3	17910.4	17317.5	14798.8	14410.9	14092.5	15378.1	17038.0	21812.9
62.5°	15757.5	15906.6	17237.9	18547.2	19522.9	17297.2	16909.3	16450.3	17888.3	19436.5	23354.3
65°	14905.5	15198.6	17144.8	19097.7	21453.8	21347.1	21172.6	20366.4	21027.0	21331.9	22797.0
67.5°	12547.8	12847.6	15113.9	18584.5	22832.6	25253.0	25290.3	23913.2	22957.9	21494.5	19167.2
70°	8939.9	9175.4	11050.4	15581.4	21782.4	27805.6	27932.6	25547.8	22573.4	19062.2	13391.3
72.5°	4244.7	4388.7	6163.8	10140.8	17285.3	25476.6	25722.2	23461.0	19194.3	14112.8	7305.4
75°	1560.0	1604.0	2083.4	4314.1	10025.7	18787.8	19077.4	16817.9	12723.9	7025.9	2782.9
77.5°	935.0	963.8	1168.7	1820.8	3943.2	10738.8	11167.3	9146.6	5560.8	2615.2	1368.6
80°	653.8	674.1	838.4	1133.2	1863.2	4092.2	4473.4	3733.2	2215.5	1654.9	996.0
82.5°	442.1	452.2	589.4	765.6	1238.2	1461.8	1576.9	1659.9	1493.9	1231.4	631.8
85°	289.6	299.8	399.7	504.8	787.6	755.4	772.4	977.3	1090.8	836.7	350.6
87.5°	166.0	172.8	240.5	269.3	386.2	320.1	323.5	514.9	697.9	564.0	213.4
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°	4039.7	4039.7	4039.7	4039.7	4039.7	4039.7	4039.7	4039.7	4039.7	4039.7	4039.7
2.5°	4024.5	4002.5	3953.4	3922.9	3894.1	3887.3	3875.4	3873.7	3872.1	3872.1	3867.0
5°	3934.7	3897.5	3821.2	3778.9	3743.3	3739.9	3738.2	3746.7	3750.1	3753.5	3748.4
7.5°	3877.1	3826.3	3731.5	3670.5	3628.1	3618.0	3634.9	3673.9	3699.3	3709.4	3704.4
10°	3841.6	3778.9	3668.8	3602.7	3567.2	3562.1	3584.1	3629.8	3682.3	3702.7	3701.0
12.5°	3800.9	3729.8	3612.9	3543.5	3523.1	3533.3	3562.1	3604.4	3658.6	3690.8	3692.5
15°	3760.3	3677.3	3557.0	3496.0	3487.6	3501.1	3528.2	3560.4	3602.7	3634.9	3638.3
17.5°	3711.1	3624.8	3504.5	3441.8	3435.0	3441.8	3443.5	3460.5	3487.6	3518.0	3526.5
20°	3658.6	3570.6	3445.2	3382.5	3352.1	3325.0	3294.5	3297.9	3306.3	3336.8	3343.6
22.5°	3621.4	3533.3	3399.5	3313.1	3231.8	3150.5	3089.5	3081.0	3084.4	3109.8	3118.3
25°	3624.8	3531.6	3387.6	3238.6	3060.7	2930.3	2849.0	2835.4	2833.7	2852.4	2864.2
27.5°	3690.8	3597.7	3431.7	3162.3	2874.4	2681.3	2594.9	2584.8	2571.2	2576.3	2589.8
30°	3838.2	3751.8	3538.4	3084.4	2672.8	2437.4	2347.6	2337.5	2318.8	2310.4	2320.5
32.5°	4078.7	4007.6	3694.2	3009.9	2471.3	2229.1	2137.6	2115.6	2103.7	2093.6	2102.0
35°	4478.4	4447.9	3902.5	2928.6	2293.4	2068.1	1985.1	1951.3	1934.3	1953.0	1966.5
37.5°	5105.1	5122.1	4175.2	2801.6	2156.2	1961.4	1892.0	1853.0	1827.6	1842.9	1858.1
40°	5992.7	6004.6	4476.7	2622.0	2037.7	1898.8	1824.2	1788.7	1753.1	1726.0	1724.3
42.5°	7158.0	7037.8	4773.2	2427.2	1900.5	1859.8	1776.8	1732.8	1678.6	1604.0	1588.8
45°	8540.2	8118.4	4998.4	2203.6	1746.3	1812.4	1724.3	1663.3	1578.6	1497.3	1488.9
47.5°	10132.4	9278.7	5108.5	1971.6	1602.3	1742.9	1659.9	1563.4	1456.7	1416.0	1410.9
50°	12076.9	10655.8	5161.0	1746.3	1477.0	1651.5	1566.8	1453.3	1363.5	1355.0	1350.0
52.5°	14290.7	12312.3	5178.0	1561.7	1373.7	1532.9	1490.6	1380.5	1309.3	1316.1	1316.1
55°	16607.8	14023.1	4947.6	1427.9	1278.8	1410.9	1439.7	1351.7	1292.4	1319.5	1329.6
57.5°	18735.2	15539.0	4222.7	1324.6	1189.1	1317.8	1421.1	1378.8	1338.1	1448.2	1455.0
60°	20368.1	16435.1	3153.9	1231.4	1123.0	1285.6	1470.2	1482.1	1492.2	1754.8	1790.4
62.5°	20710.2	16136.9	2168.1	1158.6	1092.5	1312.7	1560.0	1561.7	1549.8	1732.8	1754.8
65°	19140.1	14251.7	1576.9	1117.9	1067.1	1361.8	1636.2	1600.7	1522.7	1661.6	1621.0
67.5°	15200.3	10737.1	1312.7	1087.4	1029.8	1358.4	1717.5	1636.2	1507.5	1627.8	1561.7
70°	9866.5	6492.4	1168.7	1062.0	985.8	1294.1	1765.0	1632.8	1463.5	1514.3	1436.4
72.5°	4813.8	2903.2	1072.2	1024.8	940.1	1204.3	1763.3	1602.3	1417.7	1414.3	1372.0
75°	1883.5	1329.6	984.1	968.9	862.1	1102.7	1715.8	1558.3	1363.5	1309.3	1294.1
77.5°	1102.7	948.5	872.3	885.9	769.0	1001.0	1646.4	1482.1	1289.0	1224.6	1207.7
80°	802.9	709.7	743.6	765.6	657.2	899.4	1553.2	1388.9	1206.0	1238.2	1214.5
82.5°	514.9	457.3	603.0	625.0	547.1	796.1	1451.6	1290.7	1089.1	989.2	965.5
85°	262.5	289.6	448.9	476.0	421.8	653.8	1327.9	1160.3	957.0	823.2	836.7
87.5°	147.4	198.2	286.3	320.1	298.1	503.1	1077.3	957.0	780.8	635.2	559.0
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)