

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: P193233

Luminaire Tested: **GLEON-AF-05-LED-E1-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-T3R-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29419.1 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 279
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

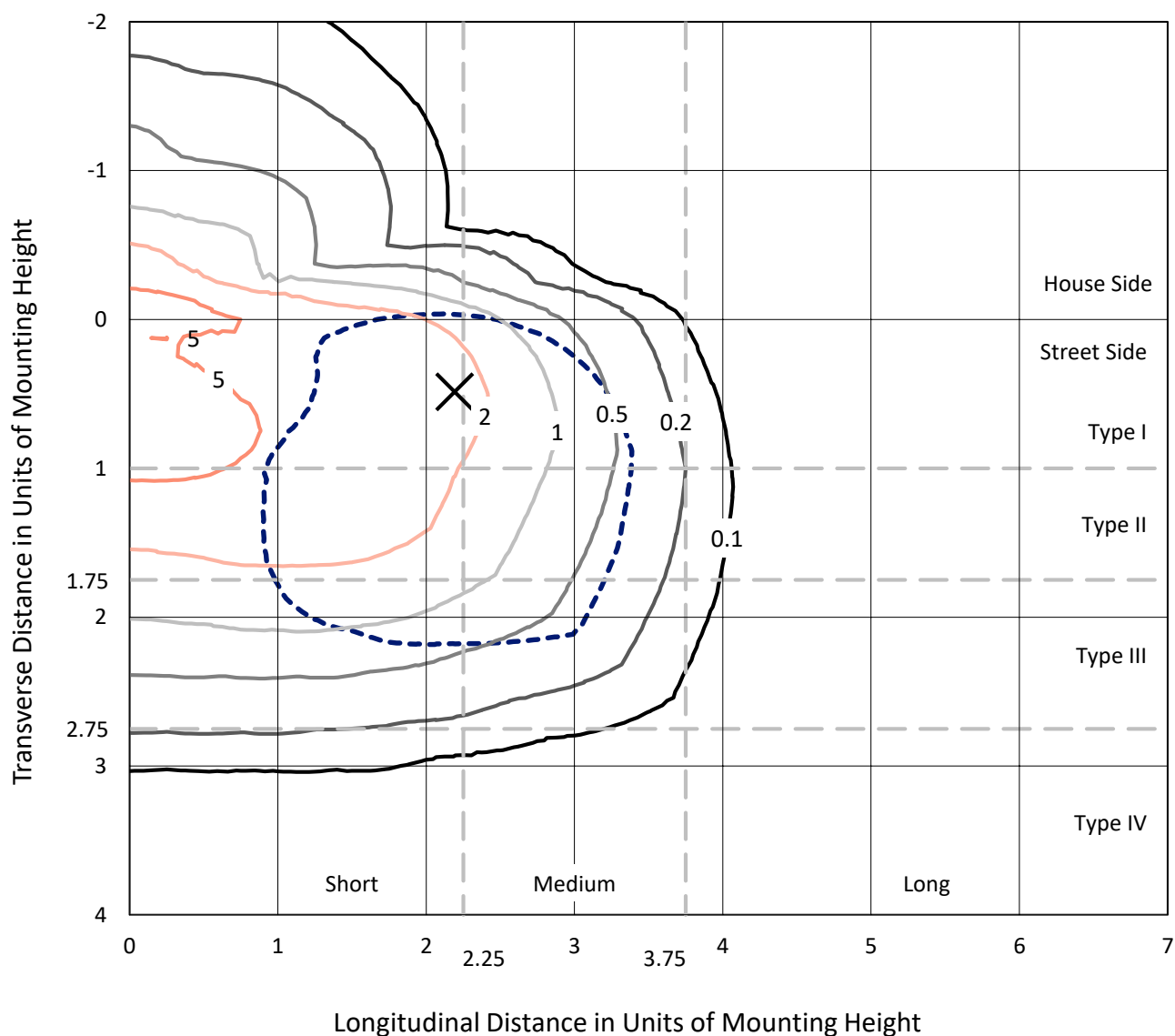


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

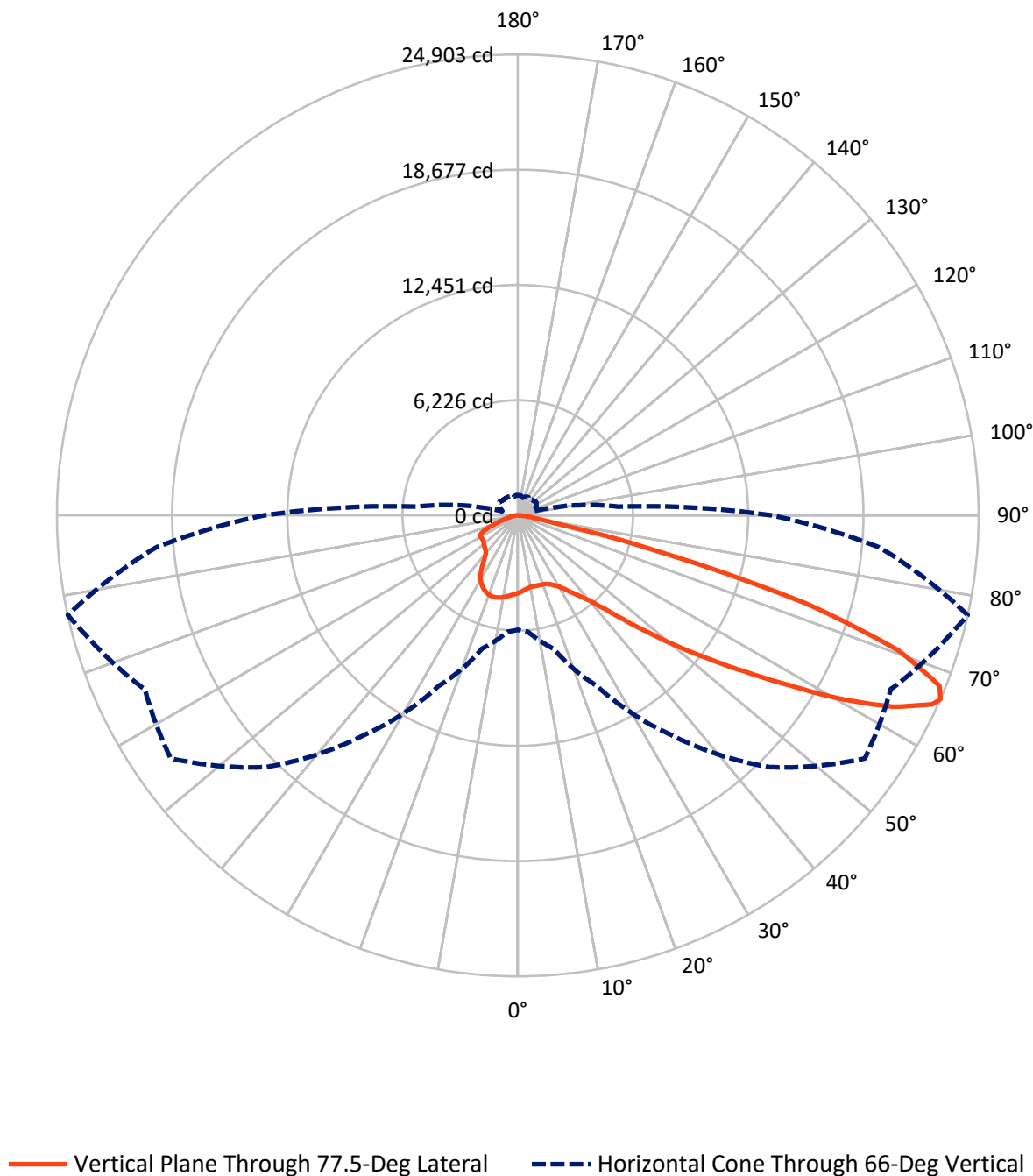


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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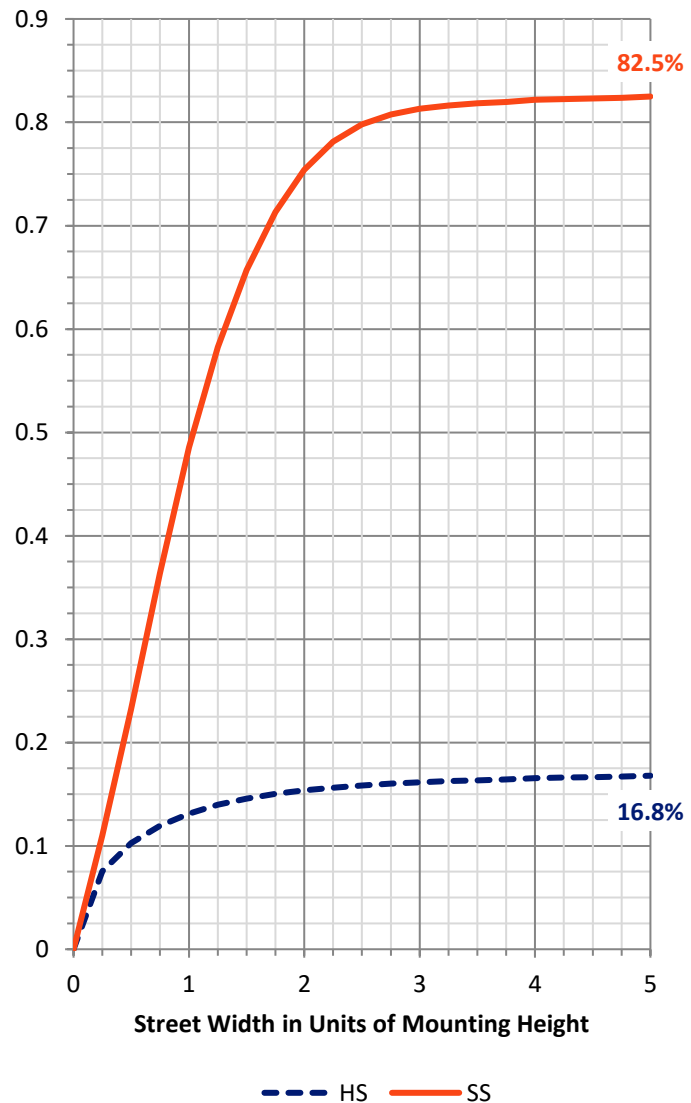
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5026.1	0.0	5026.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	24393.1	0.0	24393.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	29419.1	0.0	29419.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.6	1.3
10°-20°	1056.7	3.6
20°-30°	1803.4	6.1
30°-40°	2886.9	9.8
40°-50°	4460.0	15.2
50°-60°	6325.8	21.5
60°-70°	8462.2	28.8
70°-80°	3675.0	12.5
80°-90°	374.7	1.3
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°	29419.1	100.0
0°-180°	29419.1	100.0

Coefficient of Utilization



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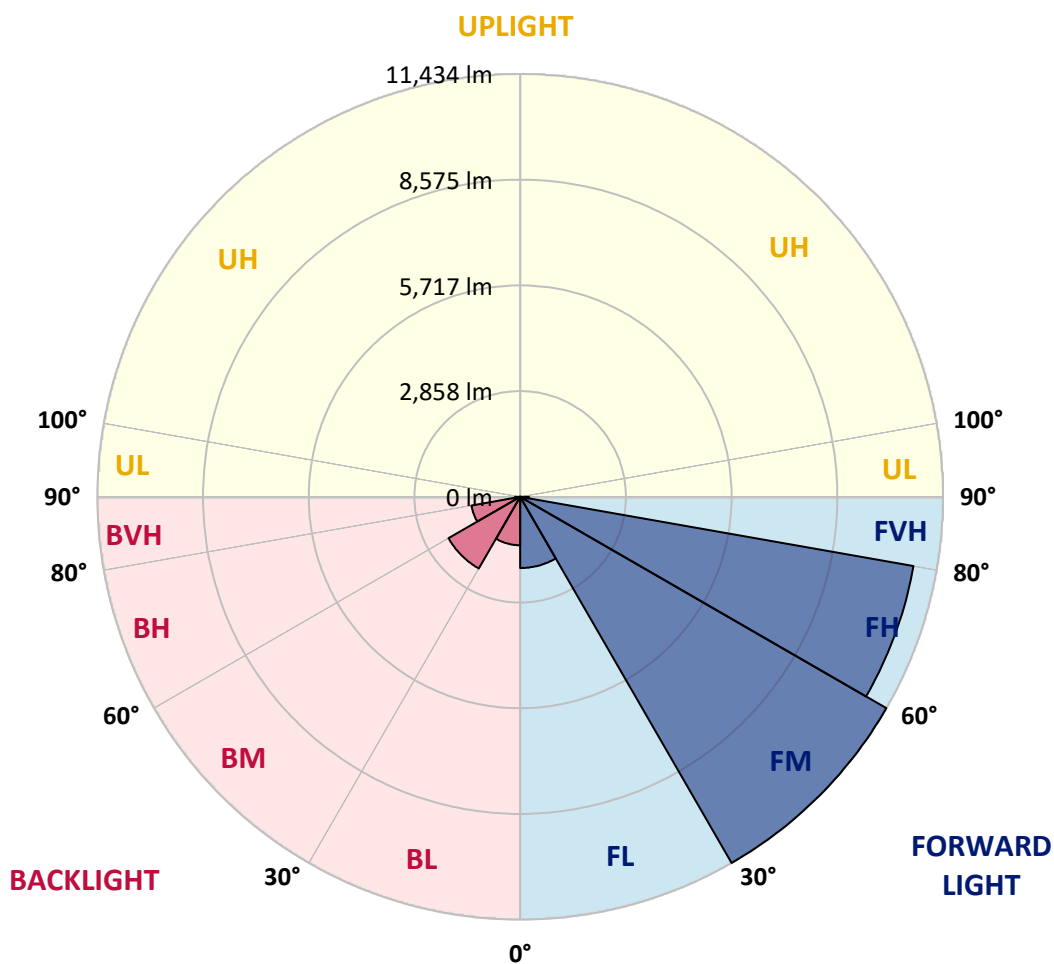
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1925.6	6.5			
FM	(30°-60°)	11433.8	38.9			
FH	(60°-80°)	10798.6	36.7			G4/12000
FVH	(80°-90°)	235.0	0.8			G3/500
BL	(0°-30°)	1309.0	4.4	B3/2500		
BM	(30°-60°)	2238.8	7.6	B2/2500		
BH	(60°-80°)	1338.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	139.7	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4192.4	4192.4	4192.4	4192.4	4192.4	4192.4	4192.4	4192.4	4192.4	4192.4	4192.4
2.5°	3708.6	3733.6	3754.4	3774.0	3812.9	3876.8	3950.5	4010.3	4096.4	4113.2	4159.0
5°	3368.0	3368.0	3384.8	3414.0	3466.8	3562.7	3662.8	3796.2	3983.8	4028.4	4150.6
7.5°	3202.6	3204.0	3213.8	3238.8	3284.7	3372.3	3482.1	3639.1	3893.6	3967.2	4175.7
10°	3263.8	3249.9	3229.0	3216.6	3223.4	3274.9	3379.2	3554.3	3838.0	3932.5	4231.3
12.5°	3605.8	3579.4	3507.1	3411.2	3319.4	3281.9	3343.0	3514.0	3814.2	3924.0	4305.0
15°	4164.5	4153.5	4018.7	3819.8	3597.5	3411.2	3369.4	3498.7	3817.1	3933.8	4392.6
17.5°	4865.1	4849.9	4671.9	4382.8	4019.9	3657.2	3462.7	3511.3	3826.8	3950.5	4477.3
20°	5572.7	5525.5	5333.6	4988.9	4523.3	3992.3	3616.9	3543.2	3839.3	3968.7	4566.3
22.5°	6100.9	6061.9	5889.6	5554.6	5018.1	4379.9	3824.0	3598.8	3879.6	4021.4	4676.1
25°	6565.2	6567.9	6397.0	6073.0	5518.4	4791.4	4090.8	3747.6	3982.5	4129.8	4826.2
27.5°	7139.2	7105.9	6946.0	6624.9	6013.3	5207.1	4413.4	3951.9	4135.4	4284.2	5023.6
30°	7825.9	7802.3	7617.4	7253.2	6562.4	5653.3	4781.7	4189.5	4332.7	4487.1	5282.1
32.5°	8633.5	8622.4	8430.6	7962.2	7196.3	6178.7	5214.1	4503.7	4627.4	4787.3	5653.3
35°	9581.6	9582.9	9356.4	8793.4	7889.8	6790.4	5704.8	4908.3	4986.0	5152.8	6095.3
37.5°	10165.4	10236.3	10151.5	9577.3	8675.3	7474.2	6341.4	5444.8	5394.7	5562.9	6569.3
40°	10290.5	10376.7	10644.9	10353.1	9553.7	8227.7	6905.7	5960.5	5898.0	6103.7	7179.5
42.5°	10115.3	10234.9	10802.0	11007.8	10486.4	9156.3	7664.6	6726.4	6647.3	6923.8	7938.6
45°	10011.1	10100.0	10756.1	11348.3	11295.4	10205.7	8630.8	7688.3	7659.2	8022.0	8814.3
47.5°	9830.4	9911.0	10542.1	11427.5	11770.8	11167.6	9791.5	8864.3	8921.3	9396.8	9802.6
50°	9927.8	9961.0	10303.0	11226.0	11908.5	11872.3	11088.4	10226.5	10421.1	11014.7	10921.5
52.5°	9913.7	10000.0	10275.2	10895.2	11926.5	12307.4	12365.9	11745.8	12155.9	12837.1	12162.8
55°	8014.9	8173.4	9948.5	10811.8	11990.5	12734.1	13503.0	13347.2	14111.7	14905.4	13564.0
57.5°	7653.6	7753.7	8737.8	10986.9	12329.7	13548.7	14767.8	15109.8	16388.6	17310.2	15271.0
60°	7582.7	7706.4	8725.3	11200.9	13017.7	14876.2	16643.0	17243.6	19158.9	20168.1	17250.4
62.5°	7361.7	7495.0	8643.3	11173.2	13994.9	16712.6	19043.6	19512.1	21786.2	22767.6	18906.0
65°	6661.1	6786.2	7974.8	10724.2	14653.9	18672.4	21884.8	21591.5	23860.0	24598.2	19731.6
66°	6181.6	6303.8	7447.8	10196.0	14500.9	19228.4	22891.2	22235.2	24324.4	24902.6	19570.4
67.5°	5304.4	5400.3	6424.8	9013.1	13687.8	19384.1	23737.7	22718.9	24373.0	24577.4	18648.8
70°	3351.4	3379.2	4175.7	6221.9	10361.4	16811.1	22449.2	21517.8	22362.9	21809.8	15633.8
72.5°	1454.0	1444.3	2004.5	3165.1	5866.0	11280.2	18159.6	17755.0	17542.3	16280.1	10943.9
75°	808.9	820.1	1041.1	1469.3	2383.9	5540.7	11879.3	11367.8	9598.2	8190.2	4962.4
77.5°	649.1	664.4	863.2	1042.6	1070.3	1932.1	5558.8	4523.3	2723.1	2185.1	1379.0
80°	513.0	540.8	753.5	811.8	721.4	796.5	1795.9	1435.8	1077.3	988.4	714.4
82.5°	405.9	425.3	646.4	614.4	504.6	536.6	860.4	838.2	700.6	638.1	412.9
85°	291.9	328.0	531.0	462.9	330.8	361.4	571.3	547.7	401.7	328.0	182.1
87.5°	119.5	155.7	375.3	307.2	184.8	168.2	284.9	268.2	190.4	139.0	90.3
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°	4192.4	4192.4	4192.4	4192.4	4192.4	4192.4	4192.4	4192.4	4192.4	4192.4	4192.4
2.5°	4188.2	4221.6	4264.6	4291.0	4305.0	4314.6	4330.0	4328.7	4332.7	4334.2	4339.7
5°	4216.0	4271.6	4334.2	4350.8	4350.8	4335.5	4320.2	4295.2	4285.4	4282.8	4285.4
7.5°	4288.3	4349.4	4403.7	4384.2	4342.5	4281.4	4202.1	4132.6	4095.0	4082.6	4079.7
10°	4379.9	4453.7	4476.0	4402.3	4279.9	4132.6	3975.5	3861.6	3796.2	3778.1	3772.6
12.5°	4491.2	4560.7	4530.1	4374.4	4147.9	3910.2	3693.3	3511.3	3375.0	3332.0	3329.1
15°	4613.6	4667.8	4560.7	4288.3	3950.5	3600.2	3213.8	2899.6	2730.1	2675.9	2671.6
17.5°	4727.5	4755.3	4542.7	4138.2	3659.9	3092.8	2579.9	2338.0	2279.7	2293.6	2296.3
20°	4824.9	4824.9	4481.5	3922.7	3202.6	2424.3	2100.4	2096.1	2137.8	2179.6	2187.9
22.5°	4931.9	4867.9	4374.4	3618.2	2554.9	1983.6	1936.3	1975.3	2022.5	2068.4	2075.4
25°	5063.9	4902.7	4225.7	3156.8	2008.6	1801.4	1819.6	1851.5	1875.2	1904.4	1908.5
27.5°	5211.2	4947.2	4029.7	2521.4	1743.1	1687.5	1701.3	1712.5	1709.8	1720.9	1723.7
30°	5387.8	4998.6	3761.5	1971.0	1633.3	1590.2	1565.1	1555.5	1555.5	1573.6	1580.4
32.5°	5624.1	5075.1	3376.4	1688.9	1580.4	1520.7	1440.0	1404.0	1417.8	1479.1	1492.9
35°	5884.0	5157.0	2855.2	1593.0	1569.4	1488.7	1363.7	1296.9	1298.3	1355.3	1373.4
37.5°	6167.5	5261.3	2283.8	1575.0	1594.4	1490.1	1323.3	1231.6	1194.1	1194.1	1201.0
40°	6530.4	5368.4	1848.7	1587.4	1647.2	1506.8	1302.5	1180.1	1074.4	1077.3	1082.9
42.5°	7003.1	5460.1	1615.2	1613.9	1711.1	1529.1	1301.1	1112.0	1020.3	1082.9	1139.8
45°	7528.5	5506.0	1512.3	1637.5	1762.6	1543.0	1278.9	1100.9	1027.2	1213.6	1321.9
47.5°	8133.2	5479.6	1455.4	1645.8	1775.1	1543.0	1253.9	1127.3	1075.8	1405.3	1531.9
50°	8796.1	5403.1	1399.7	1629.2	1770.9	1540.1	1277.5	1153.8	1094.0	1438.7	1526.3
52.5°	9576.0	5339.2	1341.3	1593.0	1741.7	1524.8	1305.2	1142.7	1037.0	1308.1	1369.2
55°	10465.6	5357.2	1276.0	1541.5	1695.8	1495.6	1295.5	1098.2	977.3	1152.3	1189.9
57.5°	11602.7	5572.7	1198.2	1476.2	1633.3	1447.0	1260.8	1077.3	959.1	1045.3	1067.6
60°	12871.9	5948.0	1100.9	1410.9	1555.5	1369.2	1234.4	1087.0	967.5	1037.0	1048.2
62.5°	13803.2	6166.3	1017.5	1314.9	1449.8	1283.0	1201.0	1099.4	989.7	1066.2	1063.4
65°	14056.1	5807.5	913.3	1174.5	1306.6	1192.7	1159.4	1113.5	999.4	1089.8	1077.3
66°	13701.6	5421.1	867.4	1109.2	1234.4	1148.2	1138.5	1112.0	995.3	1092.6	1071.8
67.5°	12841.2	4628.9	788.2	1013.4	1119.1	1081.4	1105.0	1099.4	984.1	1089.8	1060.6
70°	10472.6	3158.1	674.1	843.8	931.3	952.2	1041.1	1055.0	948.1	1041.1	977.3
72.5°	7317.2	1923.8	596.3	654.7	753.5	811.8	953.7	993.9	899.3	909.0	848.0
75°	3536.2	1021.7	540.8	507.4	585.2	678.4	848.0	910.4	822.9	760.3	738.1
77.5°	1102.3	624.1	458.7	408.6	458.7	547.7	708.9	797.9	732.6	636.7	628.4
80°	592.1	458.7	353.0	328.0	362.8	429.5	557.4	665.8	629.7	571.3	510.1
82.5°	390.6	297.5	261.3	254.3	276.7	328.0	414.2	551.9	551.9	489.3	355.8
85°	201.6	182.1	179.3	179.3	193.2	218.2	282.2	425.3	453.2	258.5	214.0
87.5°	100.1	104.3	97.4	101.5	108.3	107.1	134.8	214.0	255.7	157.2	130.7
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)