

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: P194713

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29195 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - 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



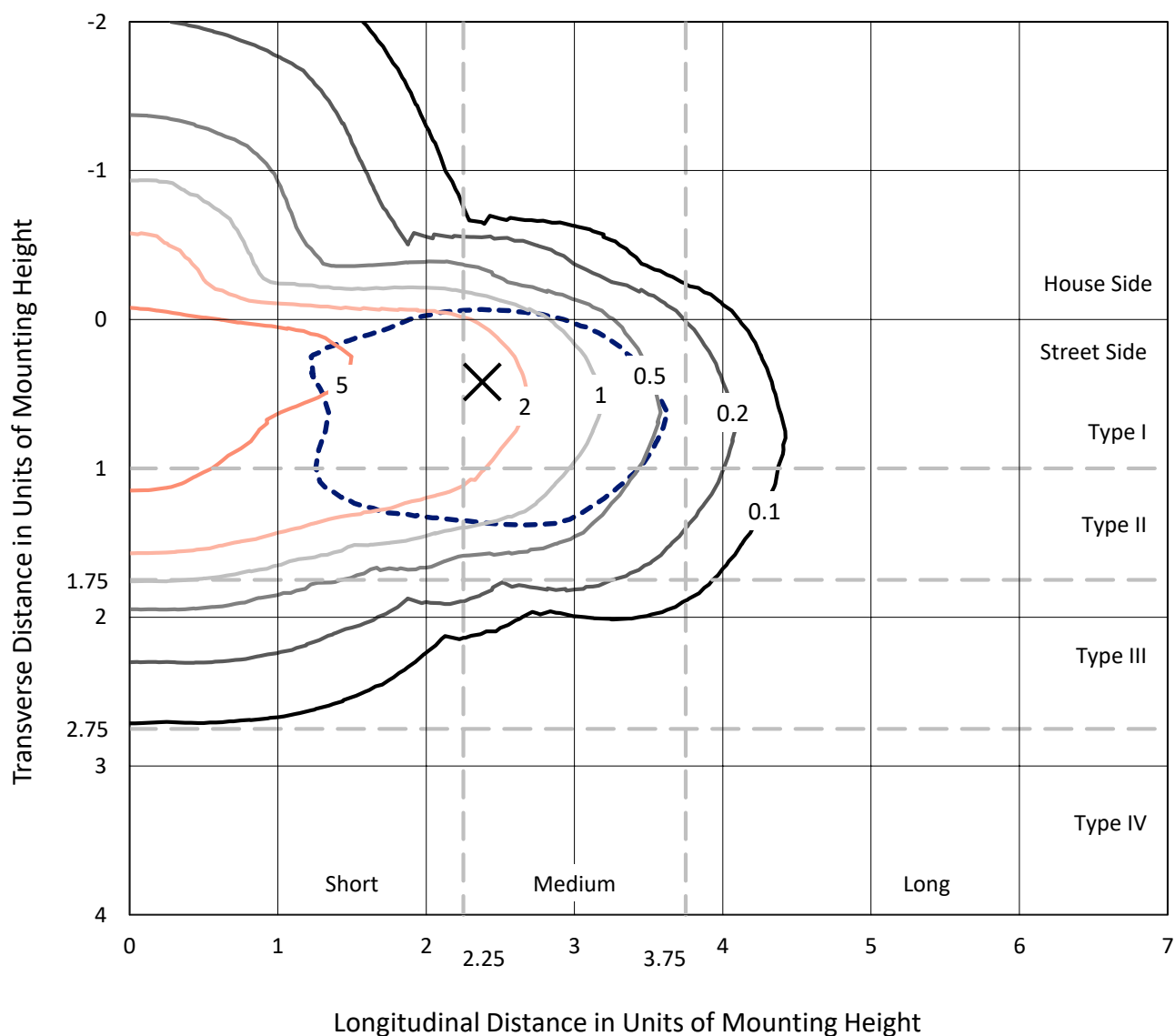
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

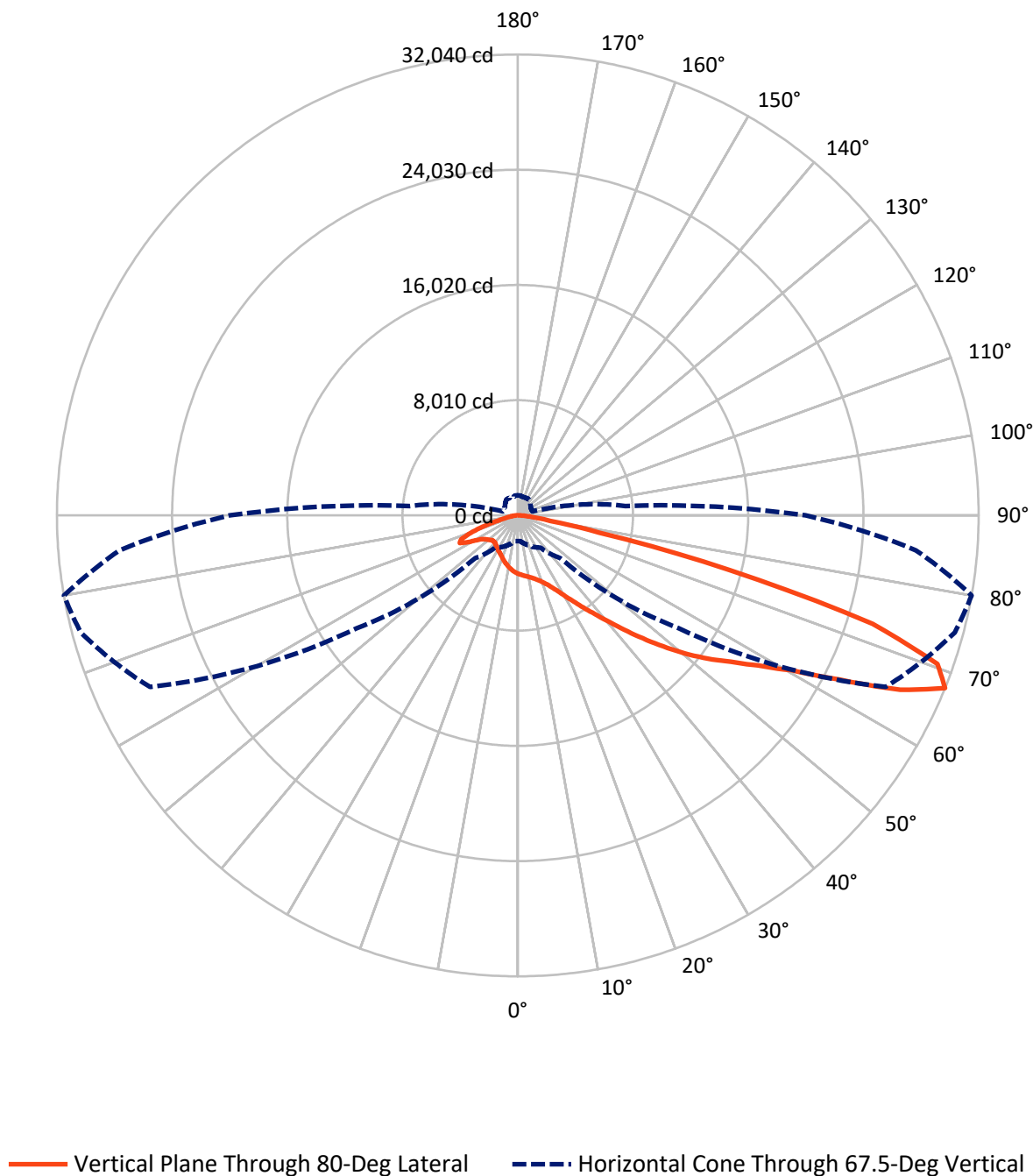


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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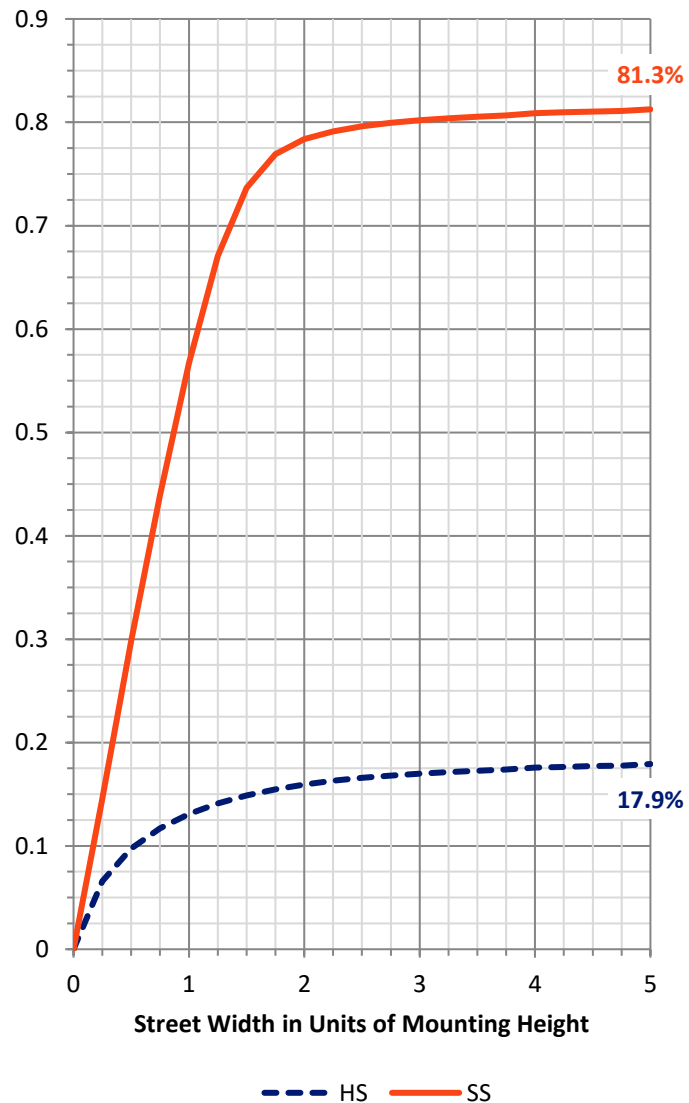
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5376.6	0.0	5376.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	23818.4	0.0	23818.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	29195.0	0.0	29195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.2	1.3
10°-20°	1077.8	3.7
20°-30°	1784.0	6.1
30°-40°	2918.2	10.0
40°-50°	4711.7	16.1
50°-60°	6802.4	23.3
60°-70°	7506.8	25.7
70°-80°	3460.2	11.9
80°-90°	559.7	1.9
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°	29195.0	100.0
0°-180°	29195.0	100.0

Coefficient of Utilization



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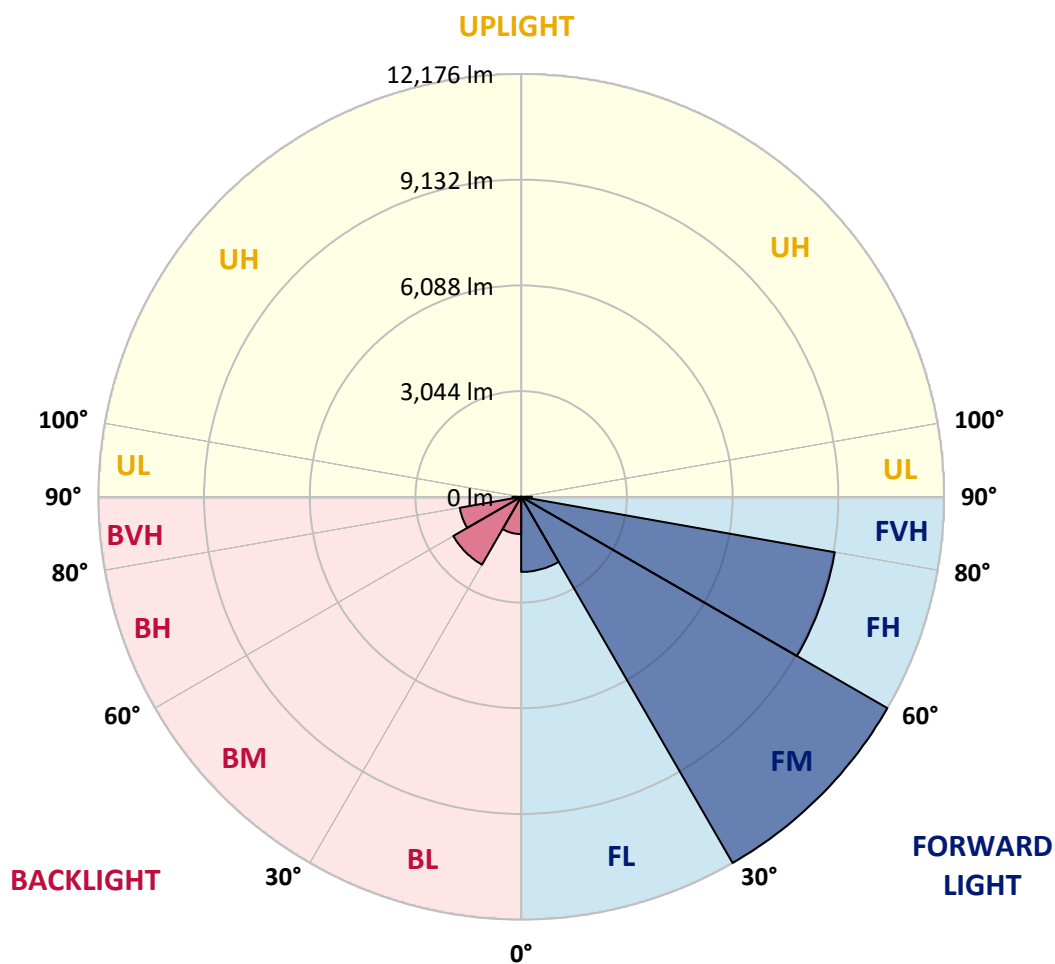
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2163.3	7.4			
FM	(30°-60°)	12176.5	41.7			
FH	(60°-80°)	9170.9	31.4			G4/12000
FVH	(80°-90°)	307.7	1.1			G3/500
BL	(0°-30°)	1072.7	3.7	B3/2500		
BM	(30°-60°)	2255.8	7.7	B2/2500		
BH	(60°-80°)	1796.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	252.0	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4056.0	4056.0	4056.0	4056.0	4056.0	4056.0	4056.0	4056.0	4056.0	4056.0	4056.0
2.5°	4436.9	4411.0	4415.4	4408.2	4386.6	4349.2	4309.0	4235.7	4159.5	4119.3	4087.7
5°	4807.7	4800.6	4790.5	4767.5	4712.9	4635.3	4539.0	4409.6	4270.2	4196.9	4126.5
7.5°	5085.1	5080.8	5067.9	5053.5	5000.3	4906.9	4761.7	4577.8	4375.1	4274.5	4165.3
10°	5108.1	5115.3	5125.4	5164.2	5171.4	5121.1	4973.0	4750.2	4484.3	4355.0	4215.6
12.5°	4912.7	4928.5	4967.3	5066.5	5171.4	5233.2	5157.0	4931.3	4612.3	4455.6	4278.8
15°	4653.9	4662.6	4710.0	4846.5	5034.8	5226.0	5297.9	5131.1	4777.6	4585.0	4373.7
17.5°	4543.3	4547.6	4580.6	4671.2	4846.5	5119.6	5376.9	5348.2	4980.2	4745.9	4490.1
20°	4487.2	4497.3	4544.7	4633.8	4744.5	4983.1	5388.4	5582.4	5221.7	4947.2	4636.7
22.5°	4646.8	4642.4	4659.7	4704.3	4797.7	4941.4	5379.8	5823.9	5529.3	5205.9	4827.9
25°	5019.0	5034.8	5004.6	4954.3	4984.5	5085.1	5425.8	6085.5	5914.5	5537.9	5077.9
27.5°	5549.4	5533.6	5489.0	5371.2	5309.4	5352.5	5578.1	6367.2	6393.1	5974.8	5408.5
30°	6078.3	6065.4	6022.2	5878.5	5752.0	5716.1	5874.2	6690.6	6963.7	6499.4	5813.8
32.5°	6627.3	6613.0	6572.7	6429.0	6276.6	6193.3	6295.3	7064.3	7636.3	7126.1	6291.0
35°	7304.3	7277.0	7192.2	6992.4	6842.9	6778.3	6825.7	7534.3	8412.5	7867.7	6870.3
37.5°	7941.0	7982.7	7896.5	7620.5	7426.5	7403.5	7456.7	8107.8	9249.0	8697.0	7535.7
40°	8580.6	8587.8	8510.2	8284.5	8084.8	8047.4	8181.1	8803.4	10236.4	9688.8	8344.9
42.5°	9241.8	9256.2	9125.4	8917.0	8770.3	8777.5	8929.9	9618.4	11369.0	10857.3	9276.3
45°	10025.1	10046.7	9902.9	9629.8	9496.2	9765.0	9701.7	10532.5	12610.8	12185.4	10345.6
47.5°	10844.4	10877.4	10768.2	10512.3	10345.6	10715.0	10473.5	11545.8	13947.5	13609.7	11519.9
50°	11291.4	11338.8	11445.1	11426.5	11390.5	11328.7	11334.5	12632.3	15325.8	15093.0	12727.2
52.5°	11051.3	11049.9	11438.0	11909.4	12412.4	12449.8	12383.7	13777.9	16613.6	16543.2	13864.1
55°	9953.2	10028.0	10615.8	11528.5	12902.6	13760.6	13956.1	15090.1	17878.5	17960.4	15018.3
57.5°	8125.0	8186.8	8980.2	10252.2	12241.4	14539.6	16192.5	16997.4	19292.8	19675.1	16554.7
60°	5510.6	5585.3	6426.1	7954.0	10462.0	14105.6	18321.1	20400.9	20985.9	21855.4	18710.7
62.5°	3238.2	3305.8	3991.4	5017.6	7366.1	12089.1	19255.4	25243.1	23675.1	25145.4	21999.2
65°	2229.2	2275.2	2608.7	3123.2	4232.8	8142.3	18096.9	28586.3	27813.0	29221.6	25812.3
67.5°	1793.7	1788.0	2052.5	2403.2	2725.1	4198.3	13684.4	28208.3	31452.2	32040.1	27791.5
70°	1477.5	1471.8	1651.4	1941.8	2177.5	2364.3	7453.8	23804.4	30710.6	30949.2	25969.0
72.5°	1236.1	1241.8	1356.8	1572.4	1786.6	1780.8	3275.6	16745.9	24159.4	25809.4	20701.3
75°	1043.5	1046.3	1122.5	1274.9	1450.2	1434.4	1776.5	9072.2	14043.8	15192.2	11475.3
77.5°	888.2	891.1	940.0	1024.8	1149.8	1144.1	1296.4	3919.5	5858.4	5786.5	3925.2
80°	791.9	791.9	814.9	830.8	899.7	873.9	961.5	1882.9	2476.5	2286.7	1566.6
82.5°	620.9	623.8	764.6	758.9	708.6	675.5	675.5	1109.6	1312.2	1213.1	917.0
85°	349.3	347.8	493.0	595.0	623.8	475.7	471.4	620.9	714.3	629.5	444.1
87.5°	149.5	152.4	228.5	264.5	353.6	296.1	291.8	320.5	363.6	314.8	205.5
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°	4056.0	4056.0	4056.0	4056.0	4056.0	4056.0	4056.0	4056.0	4056.0	4056.0	4056.0
2.5°	4057.5	4020.1	3938.2	3836.1	3744.1	3683.8	3629.2	3550.1	3554.4	3499.8	3459.6
5°	4054.6	3977.0	3787.3	3561.6	3344.6	3187.9	3070.1	2963.7	2937.8	2887.5	2857.3
7.5°	4057.5	3931.0	3611.9	3251.2	2982.4	2784.0	2683.4	2627.4	2614.4	2597.2	2598.6
10°	4067.5	3889.3	3419.3	2960.8	2679.1	2548.3	2523.9	2541.1	2561.3	2567.0	2568.4
12.5°	4090.5	3851.9	3208.0	2702.1	2489.4	2449.1	2490.8	2549.8	2588.6	2607.2	2605.8
15°	4142.3	3823.2	3005.4	2499.4	2384.5	2406.0	2483.6	2567.0	2623.1	2648.9	2650.4
17.5°	4198.3	3781.5	2797.0	2344.2	2306.9	2361.5	2457.8	2555.5	2624.5	2653.2	2659.0
20°	4271.6	3729.8	2578.5	2227.8	2233.5	2295.4	2385.9	2483.6	2559.8	2584.2	2595.7
22.5°	4367.9	3673.7	2387.3	2132.9	2150.2	2197.6	2268.0	2352.8	2419.0	2430.5	2440.5
25°	4497.3	3613.3	2235.0	2046.7	2053.9	2081.2	2128.6	2178.9	2224.9	2212.0	2222.1
27.5°	4671.2	3561.6	2121.4	1967.7	1954.7	1960.5	1984.9	2000.7	2025.1	1989.2	1993.5
30°	4875.3	3505.6	2033.8	1898.7	1862.7	1852.7	1858.4	1867.0	1885.7	1836.9	1829.7
32.5°	5112.4	3438.0	1951.8	1838.3	1788.0	1767.9	1770.7	1793.7	1865.6	1835.4	1819.6
35°	5388.4	3361.8	1865.6	1772.2	1737.7	1708.9	1706.1	1777.9	1992.1	1973.4	1959.0
37.5°	5711.8	3285.6	1779.4	1697.4	1700.3	1668.7	1658.6	1740.6	2016.5	1943.2	1933.2
40°	6122.9	3245.4	1706.1	1618.4	1654.3	1650.0	1629.9	1671.6	1855.5	1721.9	1704.6
42.5°	6631.7	3251.2	1651.4	1533.6	1599.7	1645.7	1614.1	1615.5	1681.6	1581.0	1565.2
45°	7259.8	3318.7	1612.6	1466.0	1537.9	1641.4	1608.3	1585.3	1591.1	1537.9	1529.3
47.5°	7992.8	3458.1	1585.3	1410.0	1479.0	1625.6	1606.9	1576.7	1563.8	1535.0	1527.8
50°	8807.7	3660.8	1565.2	1356.8	1425.8	1599.7	1608.3	1568.1	1553.7	1542.2	1537.9
52.5°	9608.3	3892.2	1535.0	1310.8	1384.1	1568.1	1612.6	1559.5	1543.7	1535.0	1530.7
55°	10500.8	4181.1	1489.0	1272.0	1349.6	1527.8	1612.6	1546.5	1529.3	1530.7	1529.3
57.5°	11706.7	4648.2	1434.4	1238.9	1307.9	1479.0	1585.3	1532.2	1510.6	1512.0	1513.5
60°	13591.0	5471.8	1368.3	1205.9	1256.2	1421.5	1548.0	1500.5	1479.0	1484.7	1486.2
62.5°	16362.1	6680.5	1282.1	1157.0	1201.6	1359.7	1496.2	1460.3	1438.7	1453.1	1453.1
65°	19242.4	7747.0	1175.7	1095.2	1144.1	1292.1	1431.5	1410.0	1388.4	1421.5	1420.0
67.5°	20017.1	7508.4	1069.3	1027.7	1086.6	1217.4	1353.9	1342.4	1330.9	1388.4	1385.5
70°	17782.2	6028.0	971.6	958.7	1023.4	1136.9	1270.6	1270.6	1263.4	1306.5	1296.4
72.5°	13547.9	4274.5	878.2	885.4	951.5	1049.2	1180.0	1190.1	1178.6	1200.1	1191.5
75°	7252.6	2446.3	784.8	804.9	862.4	960.1	1079.4	1089.5	1082.3	1080.8	1085.2
77.5°	2410.3	1195.8	687.0	718.6	769.0	868.1	974.5	990.3	973.0	970.2	968.7
80°	1073.7	751.7	579.2	620.9	665.5	763.2	863.8	876.7	858.1	883.9	850.9
82.5°	689.9	494.4	464.2	510.2	553.4	658.3	753.1	756.0	738.8	858.1	731.6
85°	334.9	306.1	349.3	390.9	428.3	517.4	623.8	625.2	582.1	530.4	511.7
87.5°	166.7	178.2	232.8	270.2	288.9	355.0	454.2	445.6	426.9	388.1	357.9
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)