

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: P192704

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-AFL-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28539.6 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 249
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



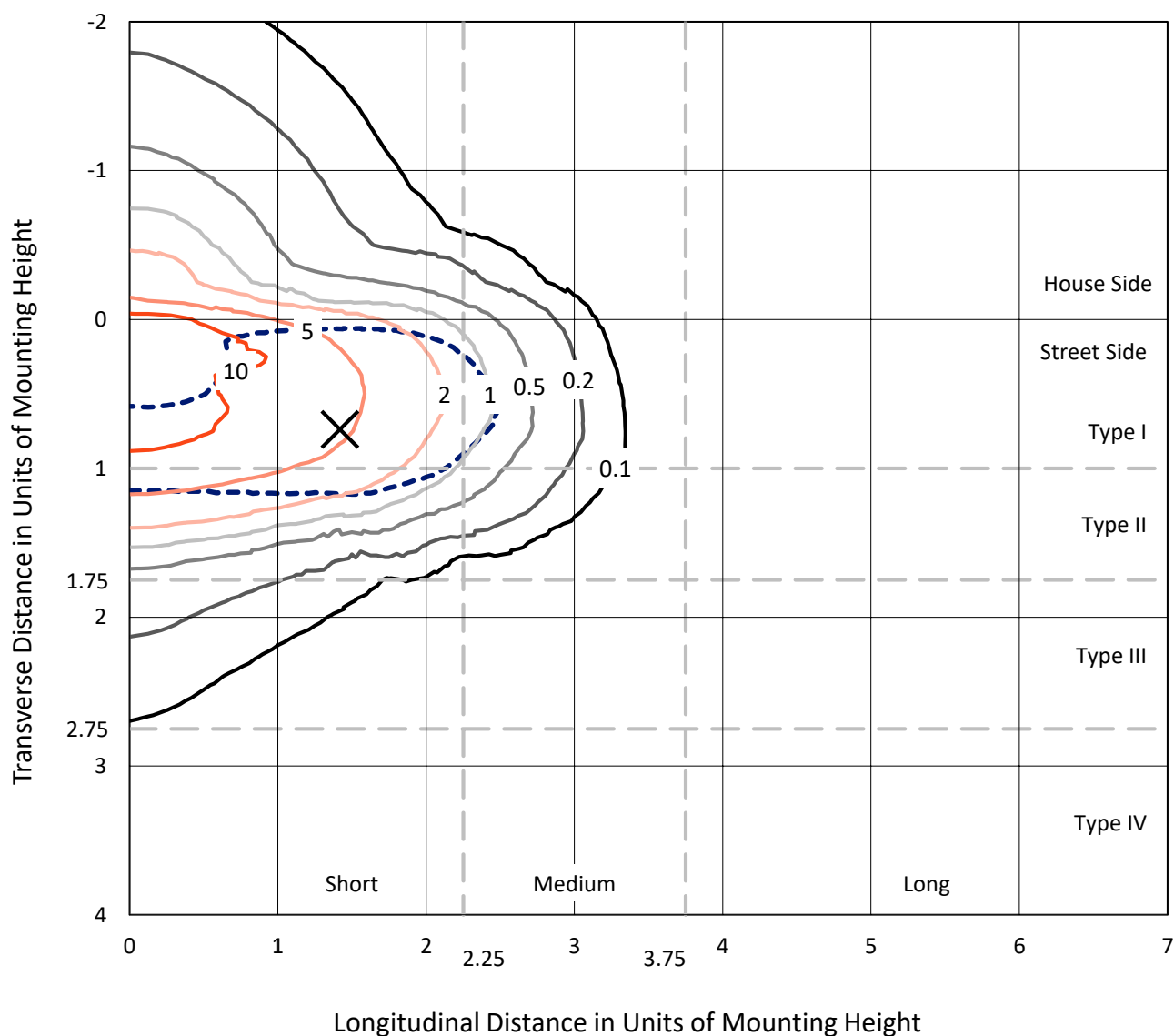
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

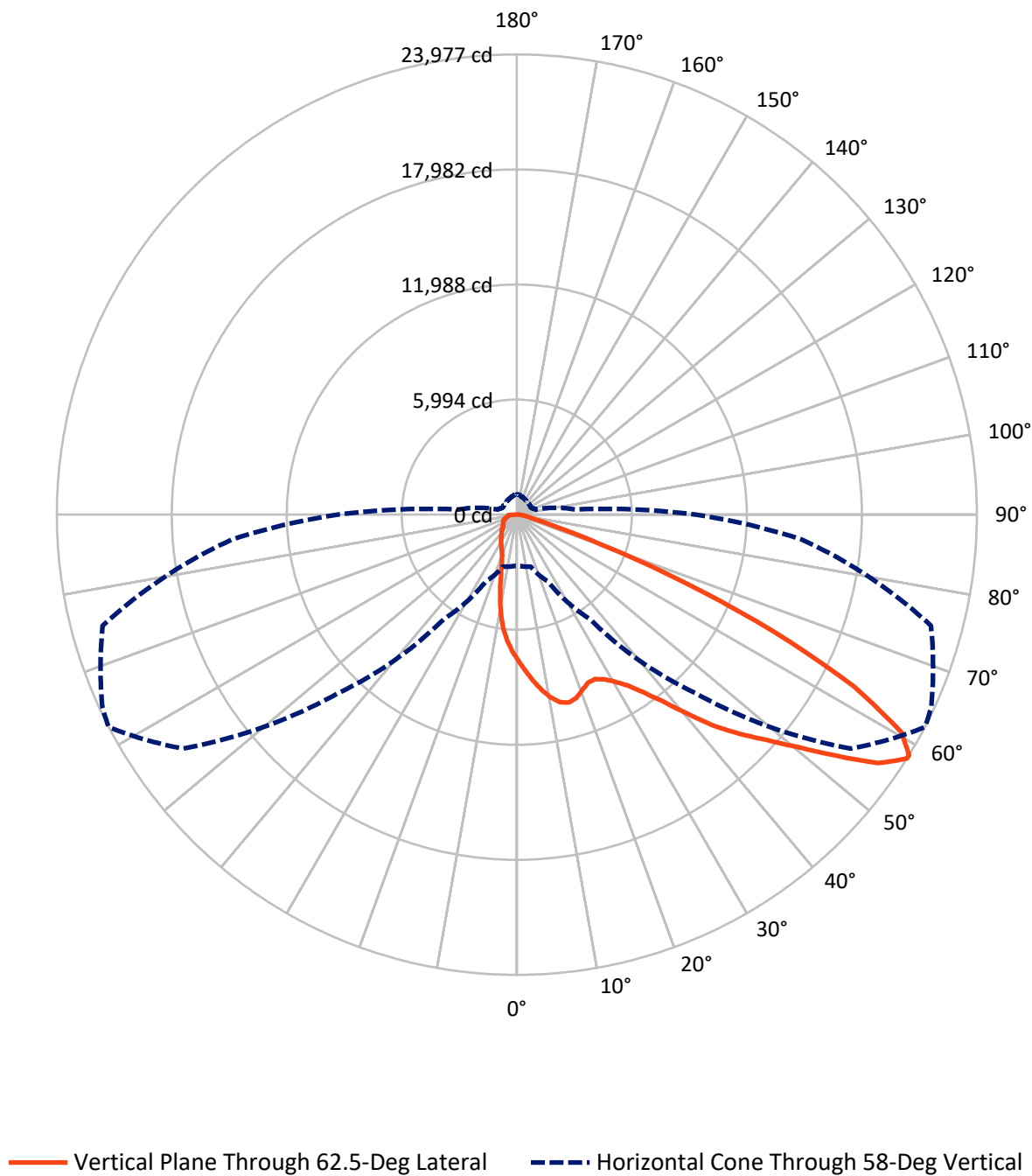


Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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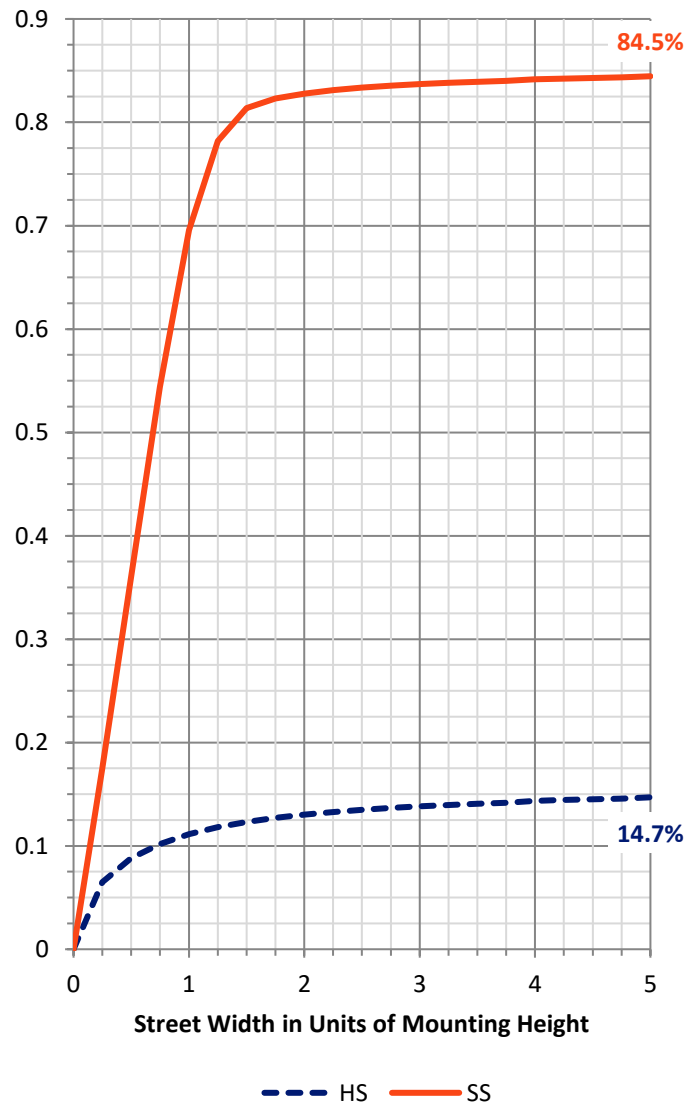
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4352.4	0.0	4352.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	24187.2	0.0	24187.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	28539.6	0.0	28539.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.0	2.4
10°-20°	1733.1	6.1
20°-30°	2801.6	9.8
30°-40°	4447.5	15.6
40°-50°	6507.6	22.8
50°-60°	6806.4	23.8
60°-70°	4021.2	14.1
70°-80°	1132.8	4.0
80°-90°	411.3	1.4
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°	28539.6	100.0
0°-180°	28539.6	100.0

Coefficient of Utilization



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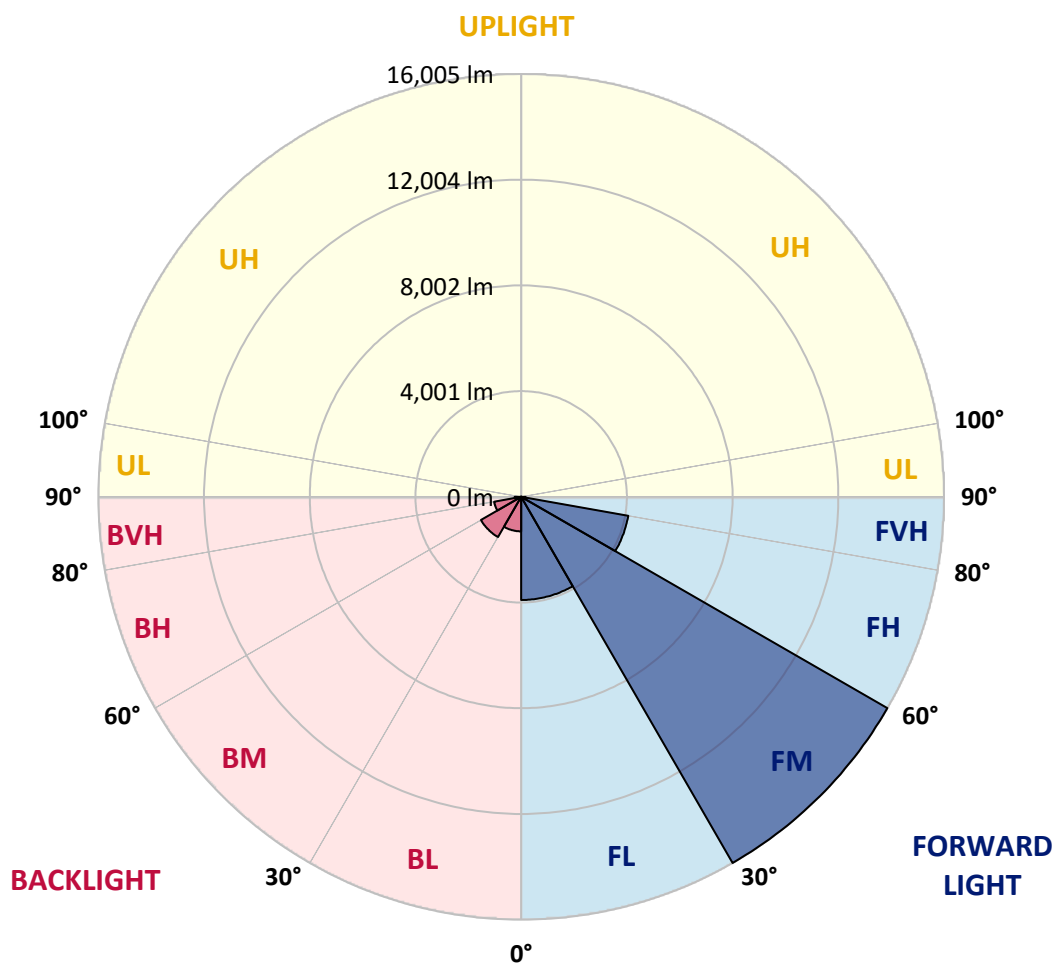
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3904.6	13.7			
FM	(30°-60°)	16004.9	56.1			
FH	(60°-80°)	4115.5	14.4			G2/5000
FVH	(80°-90°)	162.3	0.6			G2/225
BL	(0°-30°)	1308.1	4.6	B3/2500		
BM	(30°-60°)	1756.7	6.2	B2/2500		
BH	(60°-80°)	1038.5	3.6	B3/2500		G3/2500
BVH	(80°-90°)	249.0	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	7581.0	7581.0	7581.0	7581.0	7581.0	7581.0	7581.0	7581.0	7581.0	7581.0	7581.0
2.5°	8662.8	8592.9	8548.6	8509.6	8458.6	8349.7	8203.1	8110.5	8063.5	7903.5	7714.0
5°	9512.1	9450.4	9404.6	9352.3	9260.9	9090.2	8853.6	8665.5	8572.8	8252.9	7874.0
7.5°	9313.3	9338.8	9418.0	9556.5	9674.8	9652.0	9441.0	9201.7	9079.5	8634.5	8059.4
10°	8114.4	8158.8	8295.9	8619.8	9143.9	9681.5	9845.5	9680.2	9556.5	9012.2	8250.2
12.5°	7874.0	7872.5	7883.4	7969.4	8281.1	9037.7	9858.9	10025.5	9951.7	9372.4	8445.0
15°	7972.0	7974.8	7966.6	8002.9	8099.7	8399.5	9447.6	10158.6	10211.1	9735.2	8646.7
17.5°	8230.1	8223.4	8192.5	8192.5	8227.3	8344.3	8963.8	10034.9	10276.8	10056.4	8824.1
20°	8662.8	8631.9	8550.0	8474.7	8437.0	8500.2	8765.0	9750.1	10162.6	10337.3	8970.5
22.5°	9186.9	9162.7	9029.7	8868.5	8738.1	8736.7	8867.1	9501.4	9965.1	10602.1	9094.2
25°	9864.3	9825.2	9627.7	9369.7	9141.2	9053.9	9090.2	9489.2	9857.6	10889.7	9204.4
27.5°	10659.9	10588.7	10354.8	9982.5	9646.5	9470.5	9418.0	9708.3	9955.6	11245.8	9357.6
30°	11624.7	11542.8	11243.1	10758.0	10283.6	9994.6	9883.0	10096.7	10280.9	11680.0	9603.6
32.5°	12722.7	12604.4	12257.8	11722.9	11099.3	10658.5	10477.1	10610.1	10756.6	12202.6	9911.4
35°	14240.0	14099.0	13597.7	12859.9	12155.6	11549.5	11259.2	11356.0	11498.5	12982.0	10356.1
37.5°	15274.8	15211.6	14878.4	14184.9	13418.9	12721.4	12272.5	12329.1	12409.6	13956.4	10925.9
40°	15265.3	15291.0	15297.7	15304.4	14783.0	14114.9	13632.6	13573.4	13557.3	15026.2	11573.8
42.5°	14500.8	14605.6	14944.3	15630.9	15948.1	15641.7	15199.6	15028.9	14944.3	16286.7	12260.4
45°	13330.1	13386.7	14020.9	15362.2	16544.8	17153.6	16819.0	16281.4	16128.2	17445.2	12830.2
47.5°	12726.7	12788.6	13187.7	14649.9	16538.1	18375.2	18568.7	17544.7	17270.5	18453.2	13322.1
50°	11290.2	11419.1	11921.9	13410.8	15934.7	18937.0	20397.8	19049.9	18482.8	19434.2	13815.3
52.5°	8652.0	8851.0	9414.1	11373.5	14403.9	18658.8	21861.2	20874.8	20073.8	20450.2	14238.6
55°	5457.6	5605.4	6078.5	8032.5	11522.6	17211.4	22416.2	22849.1	22136.8	21412.4	14605.6
57.5°	2967.4	3033.1	3210.6	4434.9	7494.9	14011.5	21607.3	23972.6	23676.9	22229.6	14882.4
58°	2655.5	2699.9	2810.1	3843.5	6647.0	13136.7	21248.5	23976.6	23828.8	22349.1	14903.9
60°	1970.2	1947.3	1849.2	2193.3	3699.7	9075.4	19079.4	23017.1	23451.2	22495.6	14799.0
62.5°	1731.0	1675.8	1475.6	1452.7	1799.5	4181.0	14598.7	19716.4	20741.8	21659.7	14162.0
65°	1626.1	1567.0	1308.9	1225.7	1298.2	1768.6	8599.7	14786.9	16073.1	19125.1	12533.2
67.5°	1548.2	1471.6	1202.8	1088.5	1093.9	1169.2	3447.1	9313.3	10760.6	14520.9	9748.6
70°	1473.0	1389.6	1112.8	981.0	950.1	924.6	1370.7	4662.0	5975.0	9172.1	6215.5
72.5°	1392.3	1310.3	1033.5	896.4	836.0	751.2	895.1	1907.0	2663.6	4339.4	2819.6
75°	1275.4	1201.5	954.2	821.1	735.1	622.2	676.0	995.8	1194.8	1728.3	1358.6
77.5°	1131.6	1071.1	865.5	759.4	651.8	505.4	520.1	690.7	766.0	989.2	807.7
80°	813.1	834.5	770.1	682.7	580.6	409.9	399.2	504.0	544.3	635.7	525.4
82.5°	571.2	583.2	637.0	557.8	479.7	322.6	294.4	354.8	379.0	417.9	283.5
85°	393.8	380.3	436.8	388.4	346.7	215.0	201.6	240.6	255.3	259.4	146.5
87.5°	236.5	236.5	252.6	208.3	186.9	111.6	108.8	137.1	146.5	139.8	80.7
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°	7581.0	7581.0	7581.0	7581.0	7581.0	7581.0	7581.0	7581.0	7581.0	7581.0	7581.0
2.5°	7601.1	7505.7	7302.8	7140.2	6934.5	6720.9	6601.2	6473.6	6386.2	6323.1	6423.9
5°	7659.0	7464.0	7044.7	6647.0	6207.4	5750.6	5403.9	5081.3	4856.9	4717.2	4848.8
7.5°	7750.3	7450.6	6782.7	6102.6	5313.9	4553.2	3873.1	3447.1	3198.4	3076.2	3152.7
10°	7855.0	7429.1	6474.9	5364.8	4236.0	3277.8	2769.8	2597.7	2541.4	2518.4	2529.3
12.5°	7942.5	7383.4	6097.3	4472.5	3181.0	2588.4	2441.8	2437.8	2449.9	2452.7	2456.7
15°	8004.4	7316.2	5536.9	3542.5	2544.0	2358.6	2350.5	2374.6	2397.4	2407.0	2412.3
17.5°	8046.0	7177.8	4903.9	2800.8	2279.2	2247.0	2265.8	2296.7	2320.8	2327.7	2333.0
20°	8041.9	6974.9	4150.0	2335.8	2135.5	2135.5	2167.7	2192.0	2193.3	2185.1	2189.2
22.5°	8000.3	6696.7	3418.9	2088.4	2007.7	2030.7	2063.0	2040.1	1946.0	1884.1	1888.2
25°	7930.4	6364.7	2792.6	1931.1	1889.5	1929.8	1920.4	1748.3	1614.0	1553.5	1553.5
27.5°	7868.6	5972.3	2311.5	1794.1	1771.3	1821.1	1654.3	1498.5	1442.0	1413.9	1404.4
30°	7824.2	5548.9	1990.3	1662.4	1659.7	1623.5	1435.3	1392.3	1382.9	1360.1	1352.0
32.5°	7835.0	5120.3	1784.7	1546.8	1556.3	1389.6	1330.4	1339.8	1331.8	1307.7	1296.9
35°	7923.7	4713.1	1650.4	1442.0	1413.9	1255.2	1268.6	1286.1	1283.5	1249.8	1239.1
37.5°	8082.2	4327.3	1561.7	1354.7	1233.7	1187.9	1209.5	1236.4	1229.7	1206.9	1198.8
40°	8248.8	3964.5	1489.1	1286.1	1127.5	1142.3	1161.1	1175.9	1182.6	1189.4	1184.0
42.5°	8411.6	3585.6	1400.3	1216.3	1083.2	1099.3	1107.4	1122.2	1158.4	1184.0	1182.6
45°	8508.2	3229.3	1308.9	1116.7	1048.3	1057.6	1052.2	1081.8	1126.3	1167.9	1169.2
47.5°	8615.7	2952.5	1236.4	1025.4	1014.7	1021.3	1005.3	1034.8	1075.1	1126.3	1131.6
50°	8746.1	2787.3	1178.6	952.8	968.9	968.9	965.0	991.8	1048.3	1107.4	1118.2
52.5°	8893.9	2755.0	1130.2	900.4	923.2	921.9	926.0	966.3	1028.1	1085.9	1095.4
55°	9074.1	2842.4	1077.9	861.4	878.9	884.2	897.7	943.5	995.8	1061.7	1065.8
57.5°	9283.6	3019.7	1036.1	830.5	838.6	856.0	877.6	919.2	975.6	1048.3	1052.2
58°	9318.6	3057.4	1029.4	827.8	830.5	850.7	874.8	915.1	971.7	1051.0	1055.0
60°	9320.1	3182.4	1014.7	815.7	799.7	833.2	860.1	900.4	965.0	1060.4	1069.7
62.5°	8989.5	3181.0	1003.9	798.2	767.3	809.1	839.9	886.9	958.2	1083.2	1102.0
65°	7915.7	2890.8	952.8	771.4	741.9	787.5	822.5	877.6	977.0	1182.6	1194.8
67.5°	6191.4	2369.3	857.3	733.7	708.2	766.0	811.7	876.3	997.2	1205.4	1213.6
70°	4093.5	1772.6	752.6	690.7	673.2	740.4	817.0	921.9	974.4	1157.0	1135.6
72.5°	2124.8	1244.5	667.9	637.0	632.9	717.7	895.1	916.5	951.5	1088.5	1061.7
75°	1115.4	864.1	594.1	577.9	584.6	712.3	1056.3	892.3	921.9	1041.6	1092.6
77.5°	682.7	697.5	530.9	524.1	537.5	696.1	1055.0	861.4	878.9	958.2	1014.7
80°	456.9	565.8	482.5	483.8	493.2	637.0	947.5	813.1	826.5	905.8	963.5
82.5°	289.0	334.7	438.1	461.0	448.8	525.4	805.0	740.4	759.4	1036.1	1095.4
85°	146.5	209.7	380.3	443.5	404.5	368.2	653.2	649.1	658.5	747.3	780.7
87.5°	67.2	115.6	296.9	387.0	305.1	229.8	474.4	481.1	518.8	530.9	530.9
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)