

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: P192899

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4870.8 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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



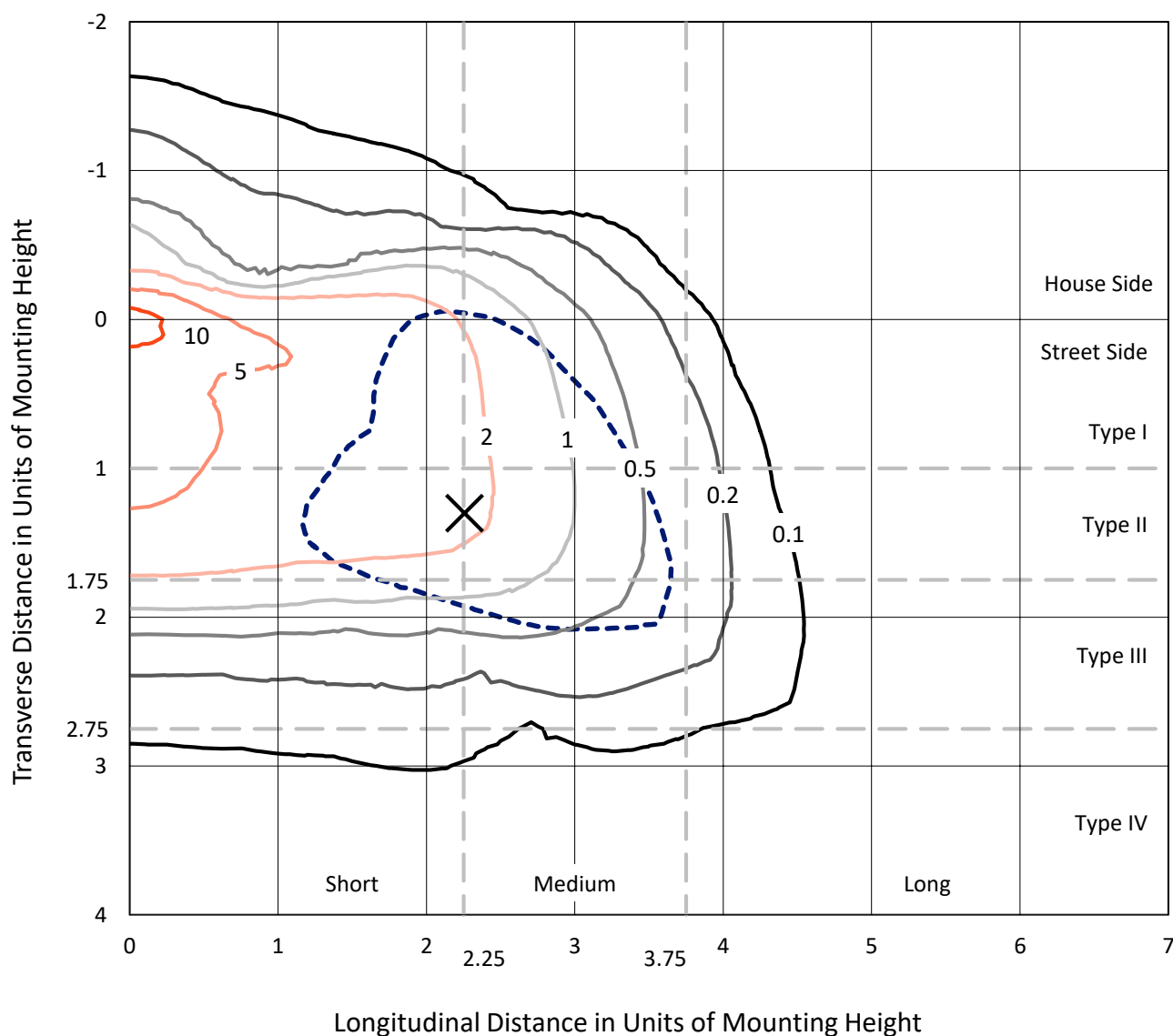
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

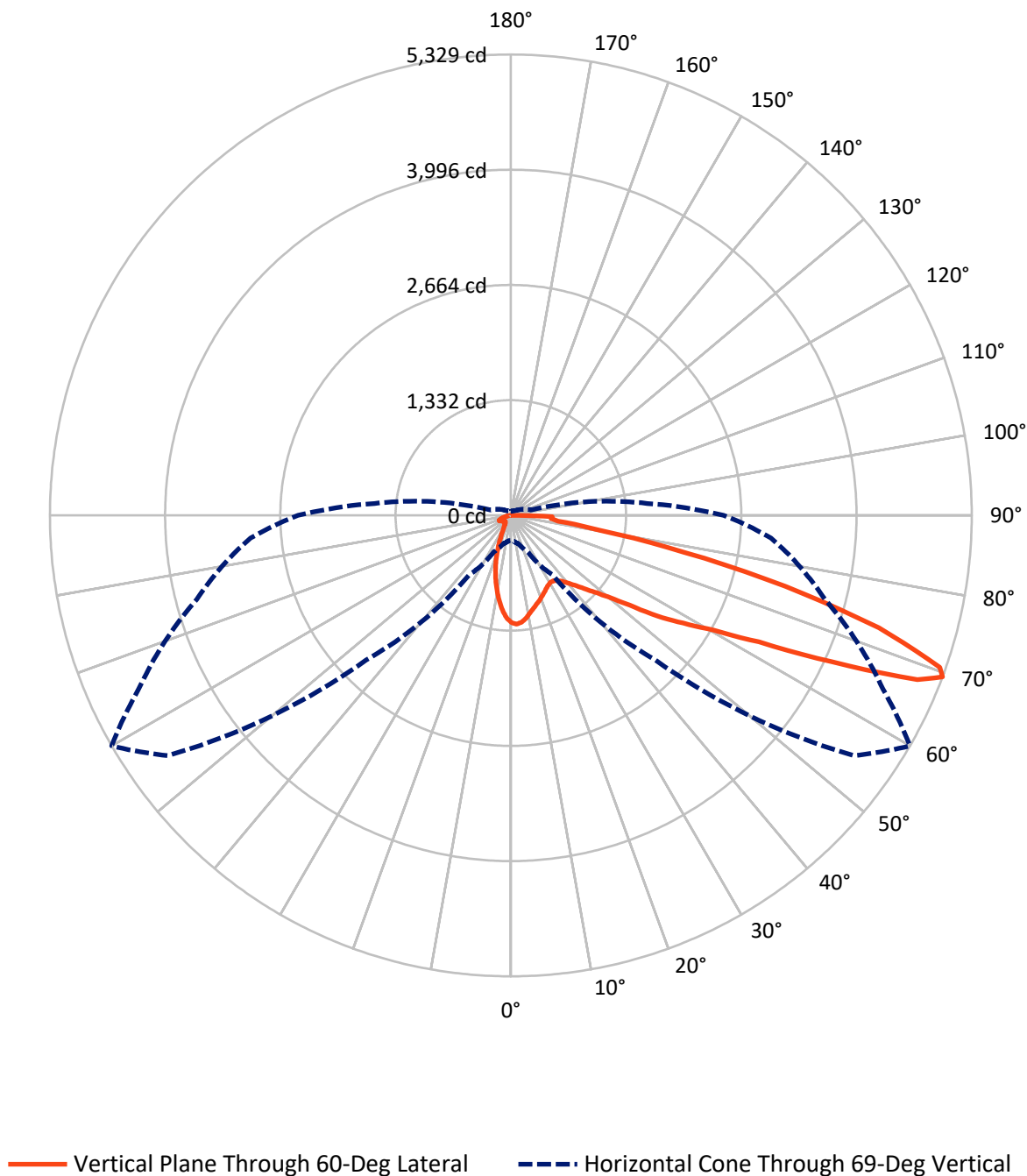


Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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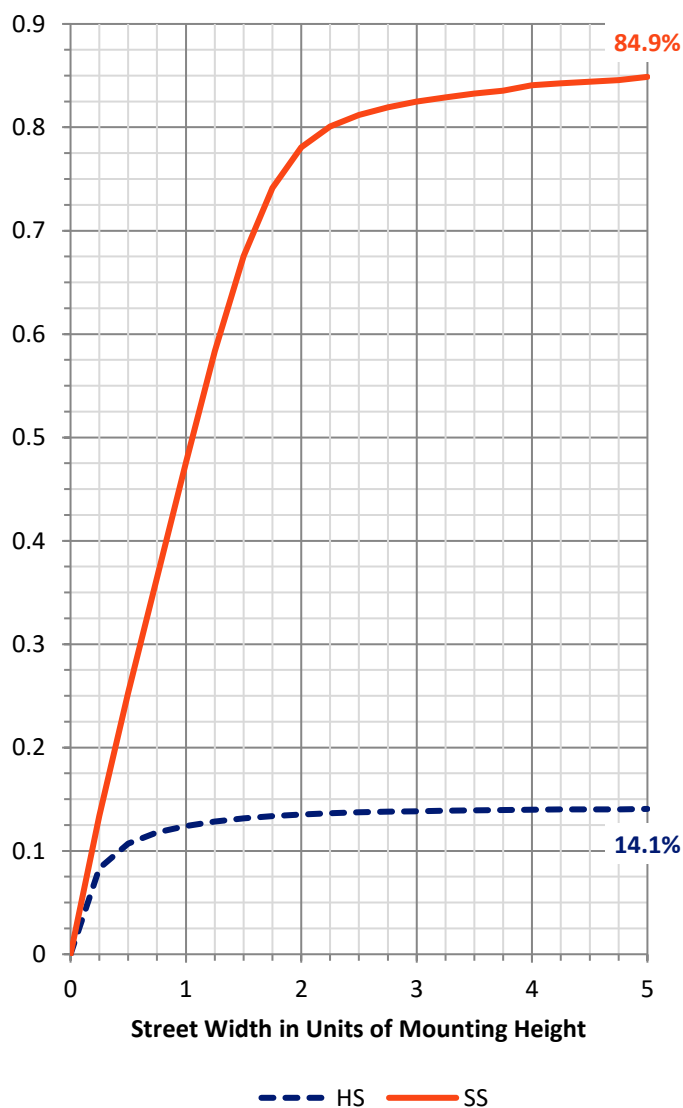
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	693.0	0.0	693.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4177.8	0.0	4177.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	4870.8	0.0	4870.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	2.2
10°-20°	223.6	4.6
20°-30°	284.9	5.8
30°-40°	391.7	8.0
40°-50°	635.5	13.0
50°-60°	1019.2	20.9
60°-70°	1356.4	27.8
70°-80°	732.4	15.0
80°-90°	122.2	2.5
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°	4870.8	100.0
0°-180°	4870.8	100.0

Coefficient of Utilization



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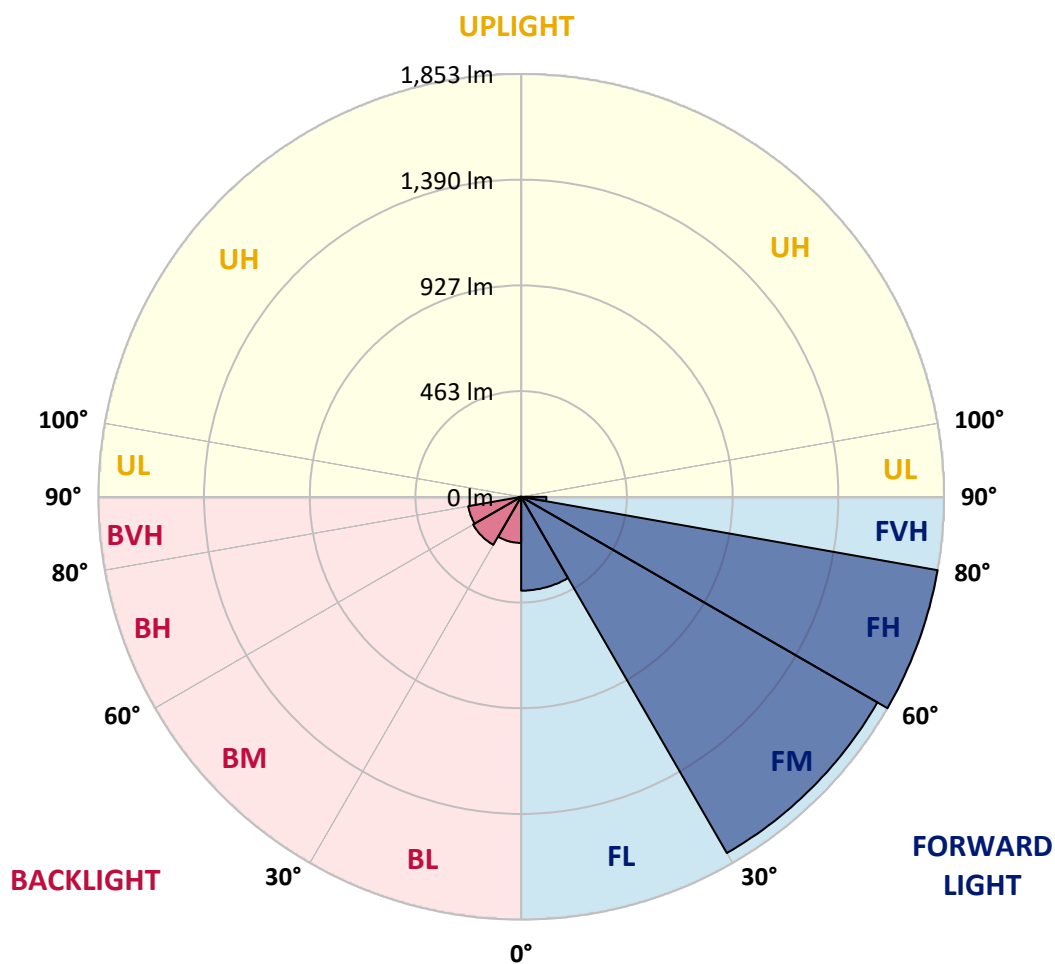
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	411.3	8.4			
FM	(30°-60°)	1802.9	37.0			
FH	(60°-80°)	1853.2	38.0			G2/5000
FVH	(80°-90°)	110.4	2.3			G2/225
BL	(0°-30°)	202.2	4.2	B1/500		
BM	(30°-60°)	243.5	5.0	B1/1000		
BH	(60°-80°)	235.6	4.8	B1/500		G1/500
BVH	(80°-90°)	11.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1241.1	1241.1	1241.1	1241.1	1241.1	1241.1	1241.1	1241.1	1241.1	1241.1	1241.1
2.5°	1266.6	1269.4	1268.2	1267.5	1269.6	1266.4	1259.5	1257.3	1254.1	1246.3	1233.1
5°	1219.0	1227.5	1227.0	1233.4	1244.0	1246.7	1243.7	1244.3	1238.1	1228.4	1206.5
7.5°	1137.0	1140.4	1142.3	1156.2	1175.5	1191.0	1204.2	1208.4	1205.5	1197.4	1169.2
10°	1052.1	1055.0	1059.5	1075.7	1100.2	1121.6	1146.5	1160.9	1167.0	1165.6	1134.1
12.5°	979.5	982.4	988.2	1006.6	1035.8	1062.1	1098.3	1116.2	1130.9	1139.5	1105.6
15°	914.3	920.4	926.1	947.3	979.9	1014.6	1055.6	1078.1	1100.7	1120.2	1080.5
17.5°	863.4	869.6	872.9	892.2	927.1	969.3	1017.4	1044.0	1072.2	1104.2	1055.6
20°	834.0	836.9	835.5	846.3	877.7	922.5	979.5	1010.3	1044.4	1089.2	1030.6
22.5°	825.9	826.1	821.0	819.8	839.9	877.9	939.1	976.4	1018.3	1079.3	1009.1
25°	845.8	845.1	831.0	819.6	821.6	843.7	900.0	943.5	996.5	1077.2	992.7
27.5°	890.4	892.4	871.6	849.8	828.4	827.7	870.4	916.2	978.5	1086.8	985.6
30°	952.6	956.2	933.8	906.3	866.1	832.9	858.8	900.0	967.5	1106.8	984.4
32.5°	1020.9	1024.7	1007.7	978.9	926.1	864.9	866.8	901.4	967.1	1134.7	992.4
35°	1093.5	1097.8	1089.2	1064.7	1006.1	924.0	897.3	924.3	982.4	1177.6	1013.8
37.5°	1174.7	1181.4	1183.8	1160.5	1097.8	1001.9	947.5	967.5	1016.8	1237.2	1053.1
40°	1291.8	1301.0	1300.1	1266.8	1203.1	1107.1	1025.0	1030.1	1070.8	1316.7	1116.0
42.5°	1515.8	1517.6	1459.0	1386.3	1318.8	1217.5	1116.2	1111.9	1145.1	1417.4	1208.4
45°	1800.7	1793.0	1662.6	1522.1	1439.7	1344.7	1235.0	1214.3	1239.5	1540.2	1324.2
47.5°	2037.1	2019.2	1854.5	1660.6	1567.8	1482.7	1374.6	1338.3	1352.2	1679.6	1473.8
50°	2119.2	2105.9	1969.4	1776.0	1688.9	1651.2	1546.3	1495.0	1498.8	1845.6	1649.2
52.5°	2101.6	2099.8	2008.6	1852.0	1802.3	1828.2	1789.5	1720.2	1683.4	2030.0	1838.3
55°	2060.0	2063.9	2031.0	1940.5	1931.9	1999.0	2107.5	2056.1	1942.1	2216.3	2033.9
57.5°	1915.2	1925.5	1998.1	2051.7	2140.6	2240.5	2363.5	2348.8	2220.3	2417.4	2266.2
60°	1543.1	1567.0	1761.4	2030.0	2355.5	2667.4	2722.5	2688.7	2507.5	2667.0	2573.4
62.5°	1081.1	1106.1	1337.2	1757.7	2320.2	3149.8	3364.4	3218.2	2919.7	3034.7	2970.8
65°	578.8	590.8	767.3	1219.6	1958.8	3249.4	4302.5	4080.2	3572.3	3488.1	3310.8
67.5°	319.2	325.9	393.5	615.7	1254.6	2861.4	4900.2	5068.1	4388.2	3789.9	3248.9
69°	288.7	294.8	339.0	466.3	839.5	2365.8	4841.9	5328.6	4745.7	3760.1	3020.2
70°	282.3	288.0	327.8	429.8	679.5	1950.1	4646.2	5262.0	4830.9	3653.1	2820.6
72.5°	254.1	260.2	298.9	386.1	580.7	972.2	3680.4	4449.0	4386.0	3167.4	2139.6
75°	237.0	242.5	308.0	378.1	556.0	615.2	2426.3	3279.0	3224.1	2215.7	1153.7
77.5°	101.4	100.9	142.8	320.0	564.3	595.8	1303.7	2048.4	1868.9	947.1	331.3
80°	67.7	66.5	67.7	94.1	517.5	599.1	683.1	1039.7	785.3	241.4	163.4
82.5°	58.4	57.4	59.5	57.4	181.9	683.8	580.7	553.0	373.4	137.1	81.0
85°	39.4	37.7	51.3	51.6	85.9	607.5	654.1	467.1	302.1	81.4	40.0
87.5°	18.8	18.3	29.8	36.5	50.4	246.8	733.9	478.5	304.8	41.6	19.0
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°	1241.1	1241.1	1241.1	1241.1	1241.1	1241.1	1241.1	1241.1	1241.1	1241.1	1241.1
2.5°	1229.1	1219.6	1210.0	1198.8	1187.0	1173.9	1167.2	1160.7	1159.0	1157.2	1150.6
5°	1195.3	1181.6	1158.0	1132.3	1104.9	1078.3	1058.0	1045.4	1035.8	1030.8	1022.1
7.5°	1151.5	1131.5	1090.3	1045.6	999.7	957.8	921.6	898.7	877.2	867.1	855.5
10°	1109.8	1080.0	1016.0	950.1	884.2	821.0	761.4	719.3	681.9	660.9	646.0
12.5°	1074.1	1033.1	944.4	855.3	765.0	674.7	585.6	515.4	456.9	426.1	410.4
15°	1039.3	989.9	876.5	763.2	647.3	524.7	407.5	328.0	279.4	260.2	253.6
17.5°	1007.7	944.4	808.2	670.6	525.9	377.6	273.9	230.1	211.5	205.2	203.0
20°	973.6	898.5	737.4	573.6	399.3	264.0	213.9	194.6	187.1	185.2	184.2
22.5°	940.7	853.5	669.6	470.0	286.8	203.8	183.8	175.8	174.6	176.2	176.2
25°	912.7	812.9	596.4	361.4	210.6	171.5	164.4	162.6	167.0	173.1	174.4
27.5°	891.8	779.8	518.6	266.8	167.7	149.1	148.9	152.0	163.1	174.9	177.2
30°	877.4	748.2	435.3	192.6	140.7	131.3	135.1	141.6	157.9	174.6	179.0
32.5°	870.1	724.9	348.4	148.9	120.5	115.3	121.6	129.7	145.7	161.1	167.0
35°	875.7	707.8	266.6	124.2	106.3	102.3	108.9	116.7	126.0	132.8	137.1
37.5°	896.9	700.9	201.1	111.3	96.7	93.0	98.2	102.6	106.3	108.2	110.4
40°	942.6	708.2	161.1	104.7	91.3	86.6	88.7	90.3	92.7	94.6	95.5
42.5°	1009.9	730.1	144.4	102.1	88.5	81.6	81.2	81.8	84.9	88.5	89.1
45°	1103.9	768.6	143.2	103.8	87.1	77.7	75.5	76.5	81.2	86.6	87.5
47.5°	1224.2	827.5	152.8	108.7	88.3	75.5	72.0	73.2	79.1	86.4	87.5
50°	1369.9	909.6	168.5	116.1	93.4	76.1	70.8	71.6	77.7	85.7	86.9
52.5°	1541.8	1026.1	185.6	123.0	98.8	79.1	71.8	70.2	75.7	82.8	84.2
55°	1733.2	1175.5	203.3	129.4	101.6	82.8	73.6	68.3	72.2	78.1	79.3
57.5°	1968.0	1384.5	234.0	135.5	103.6	85.4	75.5	66.3	67.7	72.0	72.9
60°	2285.8	1680.0	287.8	145.7	107.7	86.4	75.3	64.7	63.3	65.7	66.1
62.5°	2666.8	2000.9	332.7	158.3	114.8	87.1	73.9	63.5	59.5	59.5	60.0
65°	2892.8	2086.8	307.8	169.0	120.7	86.4	72.2	62.4	56.7	54.1	54.3
67.5°	2701.1	1835.2	263.8	171.1	120.5	83.0	69.6	60.2	53.9	49.9	49.6
69°	2460.8	1583.5	243.9	165.4	114.8	78.7	66.3	57.9	51.8	47.5	47.3
70°	2267.2	1429.8	231.1	159.3	108.7	75.7	63.8	55.7	50.1	46.1	45.7
72.5°	1648.4	936.9	197.4	136.9	89.6	63.5	55.0	48.9	44.7	42.4	41.8
75°	823.7	446.8	160.3	111.0	68.8	50.8	45.2	41.0	38.8	38.4	38.1
77.5°	270.6	204.8	114.6	82.8	51.1	39.8	36.5	33.5	32.9	34.3	33.9
80°	148.7	119.1	72.6	54.8	34.9	29.2	28.7	27.1	27.8	30.1	29.6
82.5°	75.7	61.8	44.9	32.9	23.5	21.0	22.8	21.9	22.8	24.9	24.7
85°	37.3	33.9	28.5	20.0	15.6	13.4	16.3	16.9	17.4	19.0	19.0
87.5°	21.7	20.0	15.1	9.4	7.7	7.1	9.4	9.2	10.8	11.8	11.6
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)