

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: P193099

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193099
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-01-LED-E1-T2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4779 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G1

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

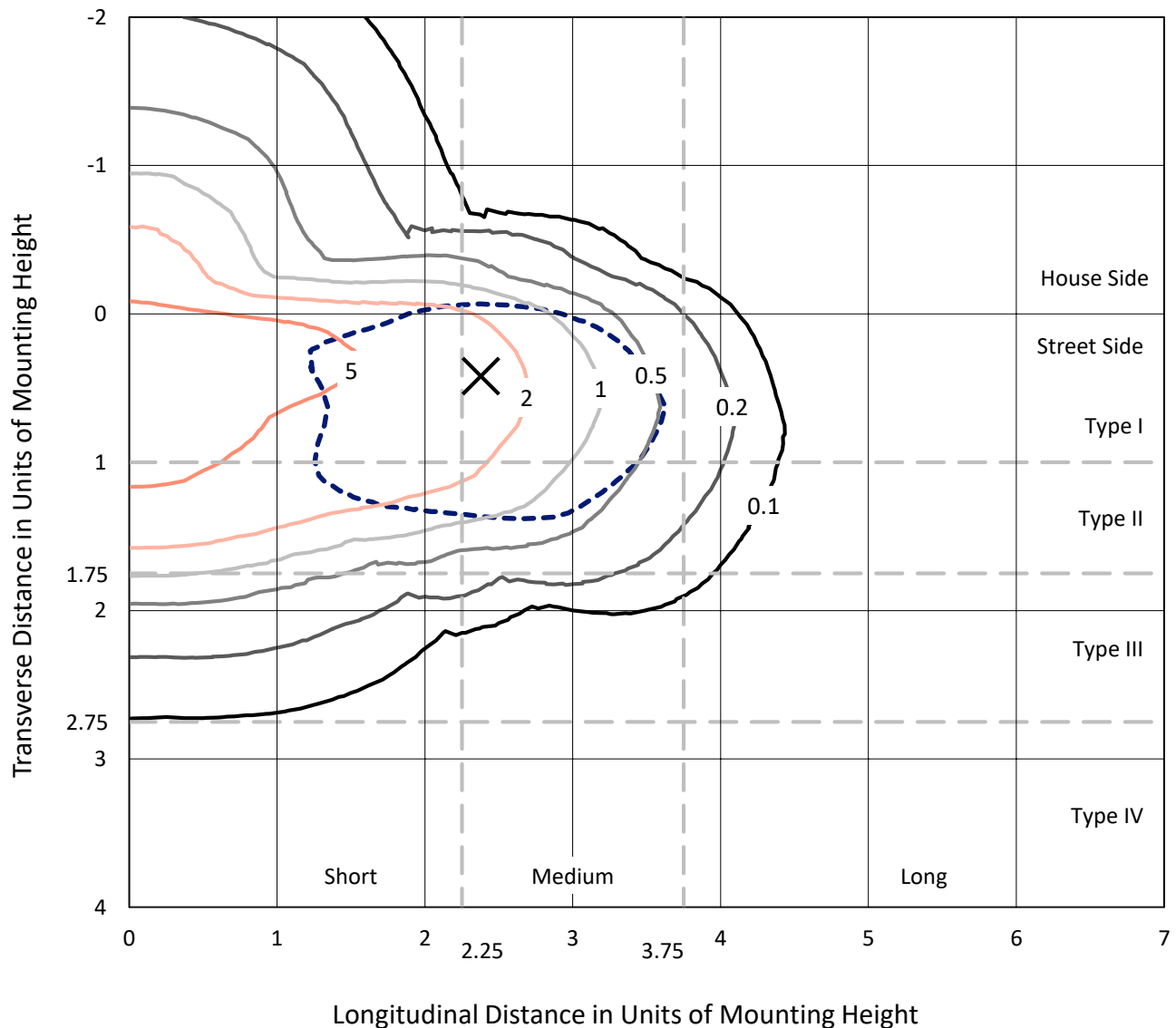


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

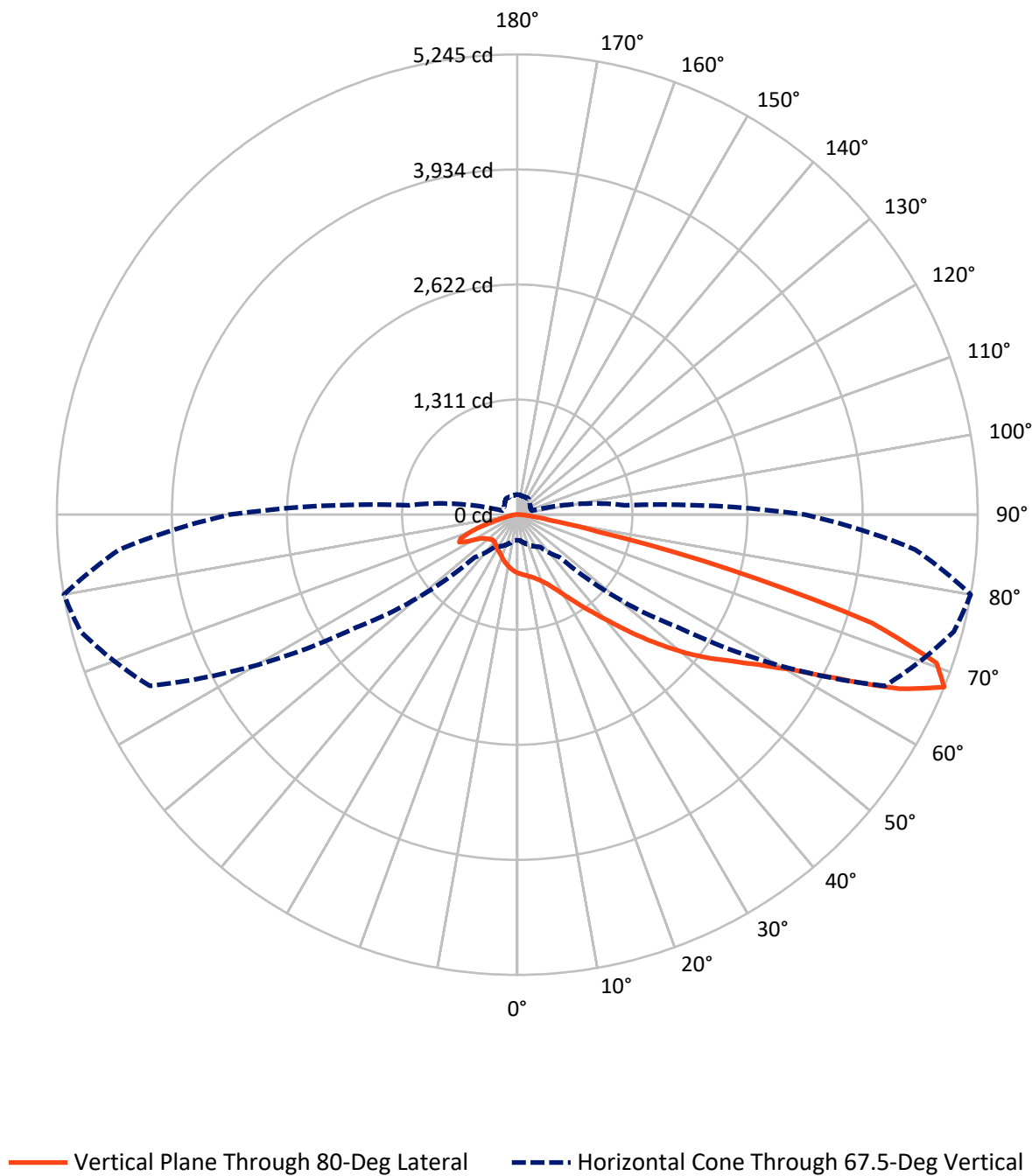


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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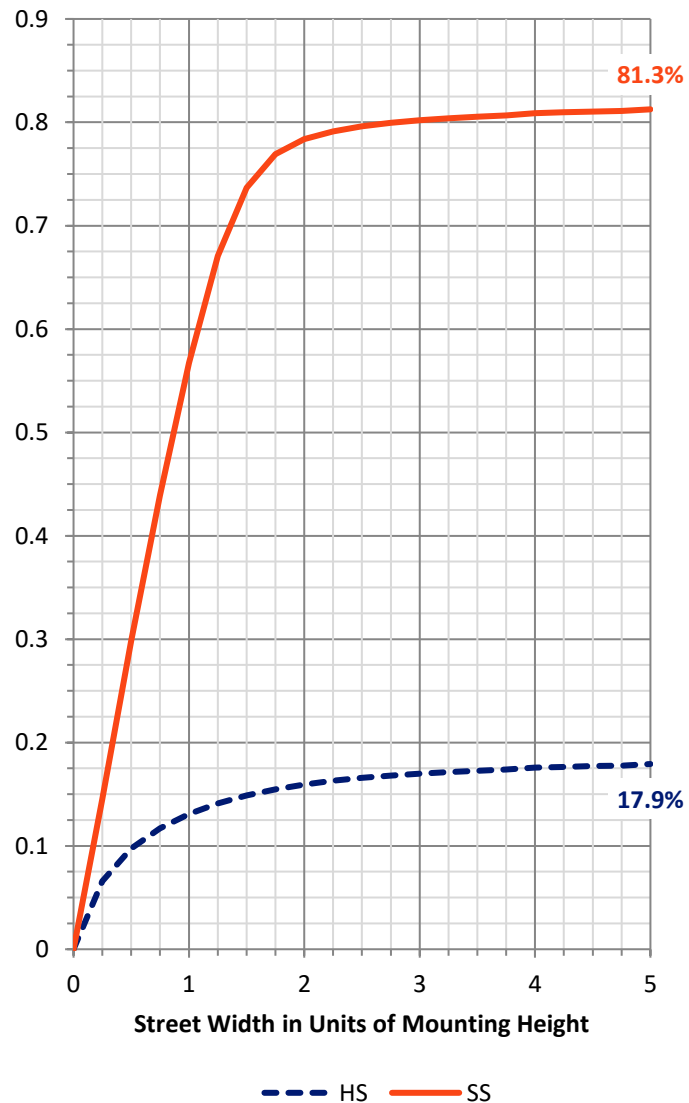
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	880.1	0.0	880.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	3898.9	0.0	3898.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	4779.0	0.0	4779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	1.3
10°-20°	176.4	3.7
20°-30°	292.0	6.1
30°-40°	477.7	10.0
40°-50°	771.3	16.1
50°-60°	1113.5	23.3
60°-70°	1228.8	25.7
70°-80°	566.4	11.9
80°-90°	91.6	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°	4779.0	100.0
0°-180°	4779.0	100.0

Coefficient of Utilization



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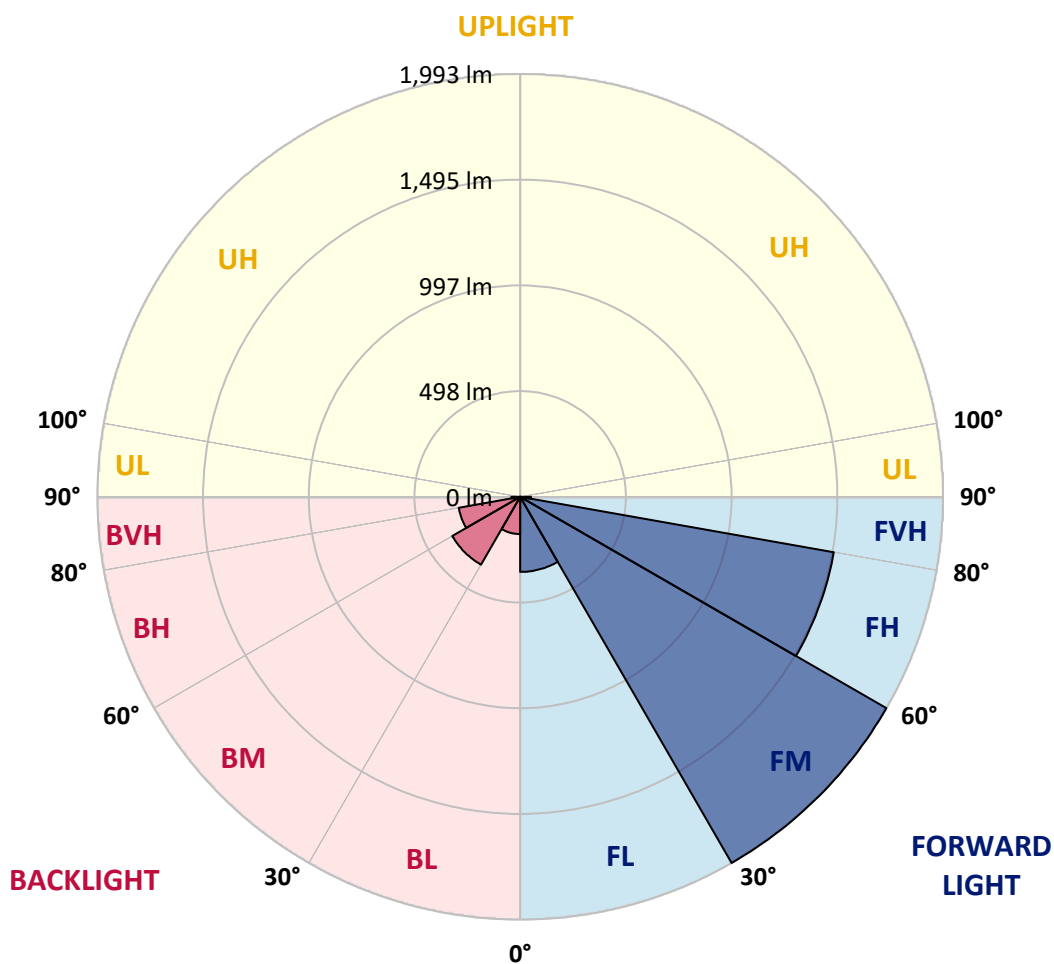
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.1	7.4			
FM	(30°-60°)	1993.2	41.7			
FH	(60°-80°)	1501.2	31.4			G1/1800
FVH	(80°-90°)	50.4	1.1			G1/100
BL	(0°-30°)	175.6	3.7	B1/500		
BM	(30°-60°)	369.3	7.7	B1/1000		
BH	(60°-80°)	294.0	6.2	B1/500		G1/500
BVH	(80°-90°)	41.2	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
2.5°	726.2	722.1	722.8	721.5	718.1	712.0	705.4	693.4	680.9	674.3	669.1
5°	787.0	785.8	784.2	780.4	771.5	758.8	743.0	721.7	699.0	687.0	675.4
7.5°	832.4	831.7	829.6	827.2	818.6	803.3	779.4	749.3	716.2	699.7	681.8
10°	836.2	837.4	839.0	845.3	846.5	838.2	814.1	777.6	734.0	712.9	690.1
12.5°	804.1	806.8	813.1	829.4	846.5	856.6	844.1	807.2	755.0	729.3	700.5
15°	761.9	763.1	771.1	793.3	824.2	855.5	867.2	839.8	782.1	750.5	715.9
17.5°	743.7	744.4	749.8	764.6	793.3	838.0	880.2	875.5	815.2	776.9	735.0
20°	734.6	736.2	743.9	758.5	776.7	815.7	882.0	913.9	854.7	809.8	759.1
22.5°	760.7	759.9	762.7	770.1	785.3	808.8	880.6	953.3	905.1	852.1	790.3
25°	821.6	824.2	819.2	811.0	815.9	832.4	888.2	996.1	968.1	906.6	831.3
27.5°	908.4	905.8	898.5	879.2	869.0	876.1	913.1	1042.3	1046.4	978.0	885.3
30°	995.1	992.8	985.8	962.2	941.6	935.7	961.6	1095.3	1139.9	1063.8	951.6
32.5°	1084.8	1082.5	1075.8	1052.3	1027.5	1013.8	1030.6	1156.4	1250.0	1166.5	1029.8
35°	1195.7	1191.2	1177.3	1144.6	1120.1	1109.5	1117.2	1233.3	1377.1	1287.8	1124.6
37.5°	1299.8	1306.7	1292.6	1247.4	1215.6	1211.9	1220.7	1327.2	1514.0	1423.6	1233.5
40°	1404.6	1405.7	1393.0	1356.1	1323.4	1317.3	1339.2	1441.0	1675.6	1586.0	1366.0
42.5°	1512.8	1515.2	1493.8	1459.6	1435.6	1436.9	1461.8	1574.4	1861.0	1777.2	1518.4
45°	1641.1	1644.6	1621.1	1576.3	1554.4	1598.5	1588.1	1724.1	2064.4	1994.6	1693.5
47.5°	1775.1	1780.6	1762.7	1720.9	1693.5	1753.9	1714.4	1889.9	2283.1	2227.8	1885.7
50°	1848.3	1856.1	1873.5	1870.4	1864.5	1854.4	1855.3	2067.8	2508.7	2470.6	2083.3
52.5°	1809.0	1808.8	1872.2	1949.5	2031.7	2037.9	2027.1	2255.3	2719.6	2708.0	2269.5
55°	1629.3	1641.5	1737.8	1887.1	2112.1	2252.5	2284.5	2470.2	2926.6	2939.9	2458.4
57.5°	1330.0	1340.1	1470.0	1678.2	2003.9	2380.0	2650.6	2782.4	3158.0	3220.6	2709.8
60°	902.1	914.3	1051.9	1302.1	1712.5	2308.9	2999.0	3339.5	3435.2	3577.5	3062.7
62.5°	530.1	541.2	653.4	821.3	1205.7	1978.9	3151.9	4132.0	3875.4	4116.2	3601.0
65°	364.9	372.5	426.9	511.3	692.9	1332.9	2962.3	4679.3	4552.9	4783.4	4225.3
67.5°	293.6	292.7	336.0	393.4	446.1	687.2	2240.1	4617.6	5148.6	5244.8	4549.2
70°	241.9	240.9	270.3	317.8	356.4	387.0	1220.1	3896.6	5027.1	5066.2	4250.9
72.5°	202.3	203.2	222.2	257.5	292.5	291.5	536.1	2741.2	3954.7	4224.8	3388.6
75°	170.8	171.3	183.8	208.6	237.4	234.8	290.8	1485.1	2298.9	2486.8	1878.3
77.5°	145.5	145.9	153.8	167.7	188.3	187.3	212.2	641.6	959.0	947.2	642.6
80°	129.6	129.6	133.4	136.0	147.3	143.0	157.5	308.2	405.4	374.3	256.4
82.5°	101.6	102.1	125.2	124.2	116.1	110.6	110.6	181.6	214.8	198.6	150.1
85°	57.2	57.0	80.8	97.4	102.1	77.9	77.1	101.6	116.9	103.0	72.6
87.5°	24.5	24.9	37.3	43.2	57.9	48.5	47.7	52.5	59.5	51.6	33.7
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°	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
2.5°	664.2	658.1	644.6	627.9	612.8	603.0	594.1	581.1	581.8	572.8	566.3
5°	663.8	650.9	619.9	583.0	547.5	521.8	502.6	485.1	480.8	472.6	467.7
7.5°	664.2	643.4	591.2	532.2	488.2	455.7	439.2	430.1	428.0	425.1	425.3
10°	665.8	636.7	559.7	484.7	438.5	417.2	413.1	415.9	419.2	420.2	420.4
12.5°	669.5	630.5	525.1	442.3	407.5	400.9	407.7	417.4	423.7	426.7	426.5
15°	678.1	625.8	492.0	409.1	390.3	393.9	406.6	420.2	429.4	433.6	433.9
17.5°	687.2	619.0	457.8	383.7	377.6	386.6	402.3	418.4	429.6	434.3	435.3
20°	699.3	610.5	422.1	364.7	365.6	375.8	390.6	406.6	419.0	423.1	424.9
22.5°	715.0	601.4	390.8	349.2	352.0	359.7	371.3	385.1	395.9	397.8	399.5
25°	736.2	591.5	365.8	335.0	336.2	340.7	348.4	356.6	364.2	362.0	363.8
27.5°	764.6	583.0	347.2	322.1	320.0	320.9	324.9	327.4	331.5	325.6	326.3
30°	798.0	573.8	332.9	310.9	305.0	303.3	304.2	305.6	308.6	300.7	299.5
32.5°	836.8	562.8	319.5	300.9	292.7	289.4	289.9	293.6	305.4	300.5	297.8
35°	882.0	550.3	305.4	290.1	284.4	279.7	279.2	291.0	326.1	323.1	320.6
37.5°	934.9	537.9	291.2	277.8	278.3	273.1	271.5	284.9	330.1	318.1	316.5
40°	1002.2	531.2	279.2	265.0	270.9	270.1	266.8	273.5	303.7	281.9	279.0
42.5°	1085.6	532.2	270.3	251.1	261.9	269.5	264.2	264.4	275.3	258.8	256.2
45°	1188.4	543.2	264.0	240.0	251.8	268.7	263.4	259.5	260.5	251.8	250.3
47.5°	1308.4	566.1	259.5	230.7	242.1	266.0	263.0	258.1	256.0	251.3	250.1
50°	1441.7	599.3	256.2	222.2	233.4	261.9	263.4	256.6	254.3	252.5	251.8
52.5°	1572.8	637.1	251.3	214.5	226.6	256.6	264.0	255.2	252.7	251.3	250.5
55°	1718.8	684.4	243.7	208.2	220.9	250.1	264.0	253.2	250.3	250.5	250.3
57.5°	1916.3	760.9	234.8	202.7	214.1	242.1	259.5	250.7	247.3	247.5	247.7
60°	2224.7	895.7	224.0	197.4	205.6	232.7	253.4	245.7	242.1	243.0	243.3
62.5°	2678.4	1093.5	209.9	189.3	196.6	222.6	245.0	239.1	235.6	237.8	237.8
65°	3149.8	1268.2	192.4	179.3	187.3	211.5	234.4	230.7	227.3	232.7	232.5
67.5°	3276.6	1229.0	175.1	168.3	177.9	199.3	221.6	219.7	217.9	227.3	226.8
70°	2910.7	986.7	159.1	156.9	167.5	186.1	208.0	208.0	206.8	213.8	212.2
72.5°	2217.6	699.7	143.7	144.9	155.8	171.7	193.2	194.8	193.0	196.4	195.0
75°	1187.2	400.4	128.5	131.7	141.2	157.2	176.7	178.3	177.1	176.9	177.6
77.5°	394.5	195.8	112.4	117.7	125.8	142.1	159.5	162.1	159.3	158.9	158.5
80°	175.8	123.0	94.8	101.6	108.9	124.9	141.4	143.5	140.5	144.7	139.3
82.5°	113.0	81.0	76.1	83.5	90.5	107.7	123.3	123.8	121.0	140.5	119.7
85°	54.8	50.1	57.2	64.0	70.2	84.6	102.1	102.3	95.3	86.9	83.8
87.5°	27.4	29.2	38.1	44.2	47.3	58.1	74.3	72.9	69.9	63.5	58.6
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)