

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: P192889

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192889
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-SL3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA 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: 3971.6 lumens
Efficiency: N/A
Efficacy: 116.8 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 - G1

Input Watts (W): 34
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



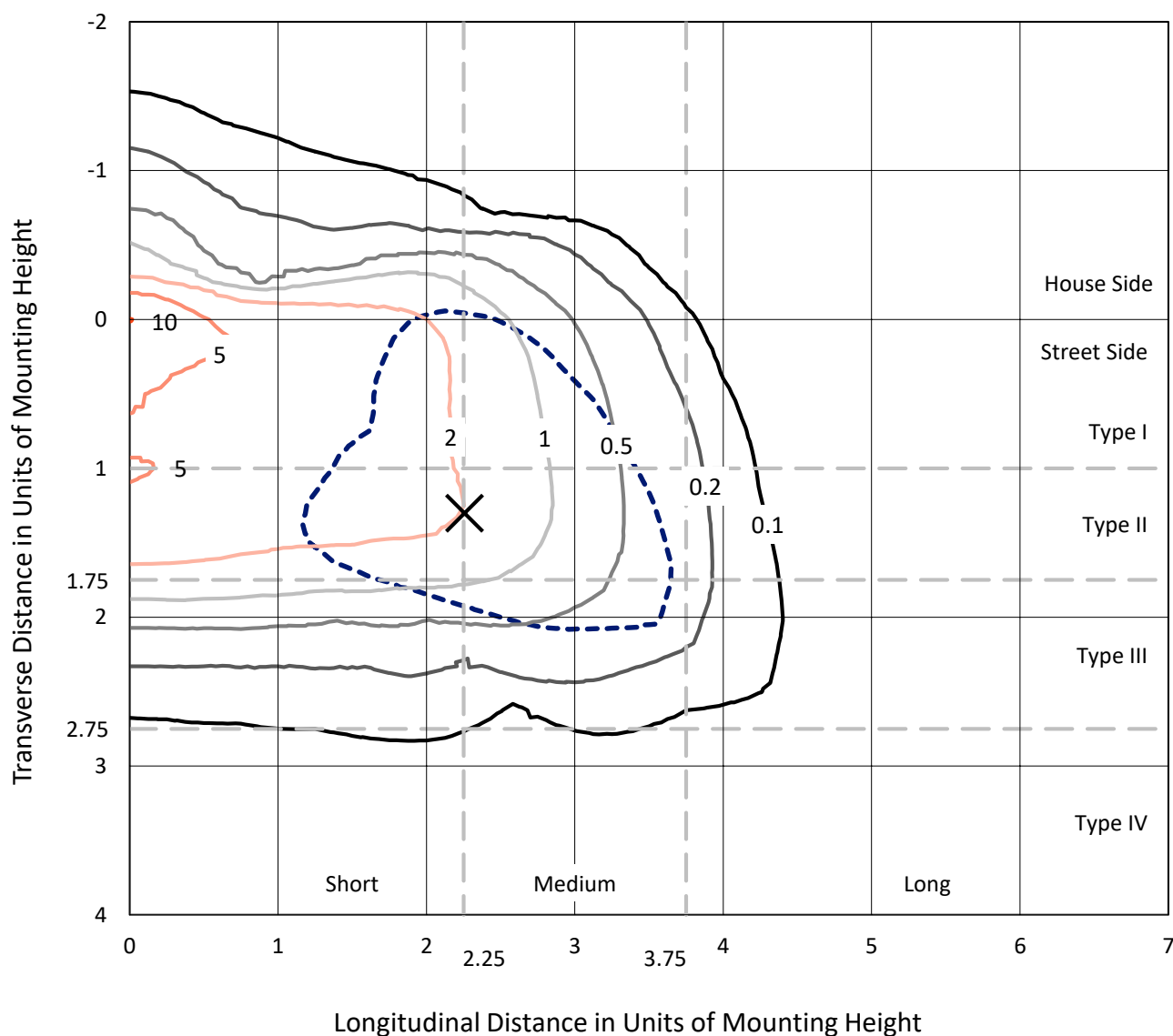
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

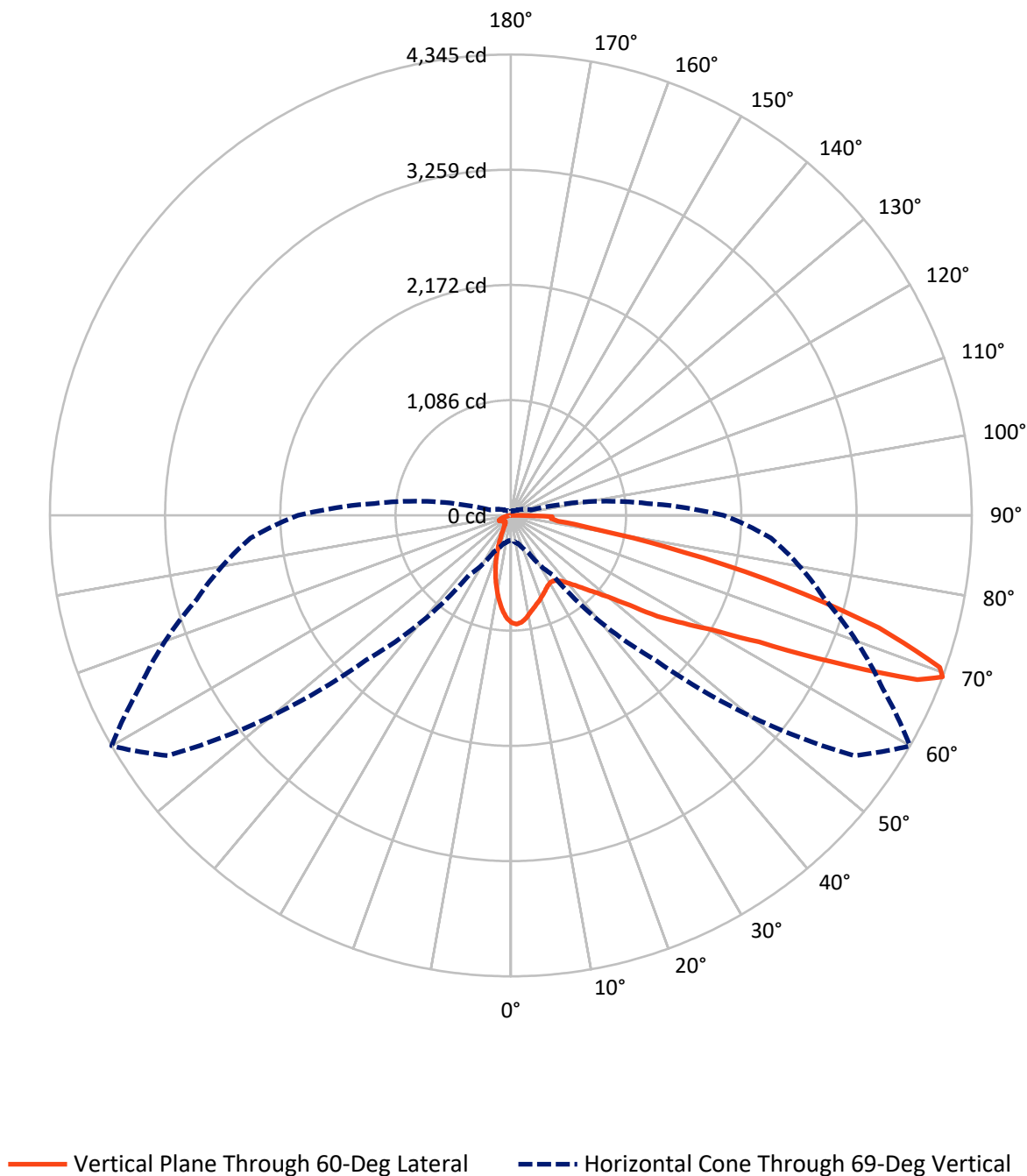


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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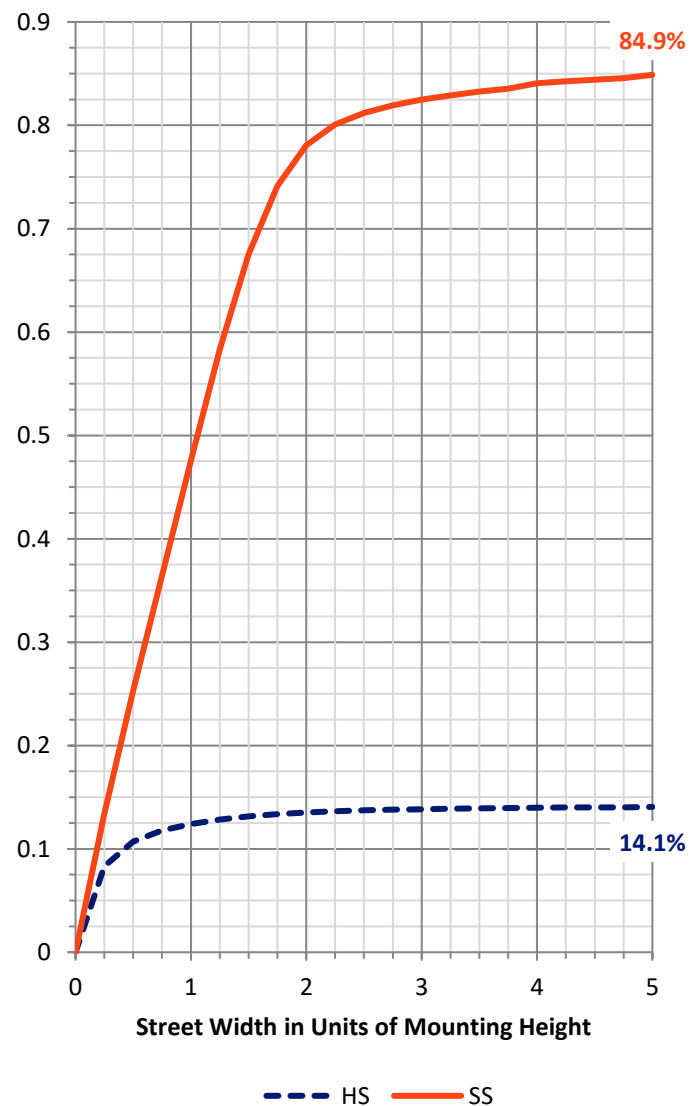
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	565.0	0.0	565.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3406.5	0.0	3406.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	3971.6	0.0	3971.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	2.2
10°-20°	182.3	4.6
20°-30°	232.3	5.8
30°-40°	319.4	8.0
40°-50°	518.2	13.0
50°-60°	831.0	20.9
60°-70°	1106.0	27.8
70°-80°	597.2	15.0
80°-90°	99.6	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°	3971.6	100.0
0°-180°	3971.6	100.0

Coefficient of Utilization



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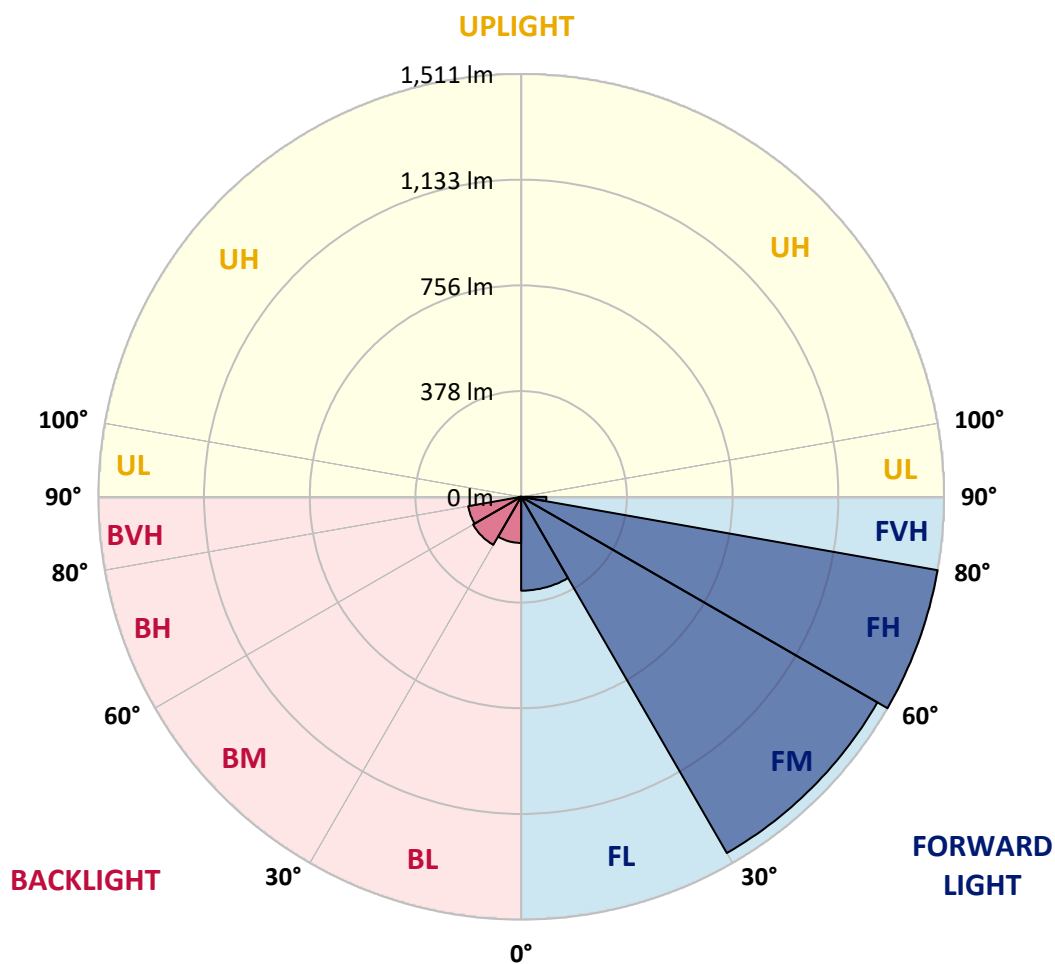
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	335.3	8.4			
FM	(30°-60°)	1470.0	37.0			
FH	(60°-80°)	1511.1	38.0			G1/1800
FVH	(80°-90°)	90.1	2.3			G1/100
BL	(0°-30°)	164.8	4.2	B1/500		
BM	(30°-60°)	198.5	5.0	B0/220		
BH	(60°-80°)	192.1	4.8	B1/500		G1/500
BVH	(80°-90°)	9.6	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1
2.5°	1032.7	1035.0	1034.0	1033.5	1035.2	1032.5	1026.9	1025.3	1022.5	1016.2	1005.5
5°	993.9	1001.0	1000.5	1005.7	1014.4	1016.6	1014.2	1014.5	1009.5	1001.7	983.8
7.5°	927.1	929.9	931.4	942.8	958.5	971.2	981.9	985.3	983.0	976.3	953.3
10°	858.0	860.3	863.9	877.2	897.1	914.6	934.9	946.6	951.5	950.4	924.8
12.5°	798.6	801.0	805.8	820.7	844.6	866.0	895.6	910.1	922.0	929.1	901.5
15°	745.5	750.5	755.1	772.4	799.0	827.3	860.6	879.1	897.4	913.4	880.9
17.5°	704.0	709.1	711.9	727.4	755.8	790.4	829.6	851.2	874.3	900.4	860.6
20°	680.1	682.5	681.2	690.1	715.6	752.2	798.6	823.9	851.6	888.1	840.3
22.5°	673.4	673.6	669.3	668.4	684.9	715.7	765.7	796.2	830.4	880.0	822.8
25°	689.8	689.1	677.6	668.2	670.0	688.0	733.7	769.3	812.5	878.3	809.4
27.5°	725.9	727.6	710.6	692.9	675.6	674.9	709.6	747.2	797.9	886.2	803.7
30°	776.9	779.7	761.4	739.0	706.3	679.1	700.3	733.7	788.9	902.5	802.7
32.5°	832.4	835.5	821.7	798.1	755.1	705.3	706.8	735.0	788.6	925.3	809.3
35°	891.8	895.2	888.1	868.2	820.3	753.5	731.7	753.6	801.0	960.2	826.6
37.5°	957.8	963.3	965.2	946.1	895.2	816.9	772.6	788.9	829.2	1008.8	858.8
40°	1053.3	1060.8	1060.2	1032.9	980.9	902.7	835.8	839.8	873.1	1073.6	909.9
42.5°	1235.9	1237.5	1189.8	1130.4	1075.3	992.8	910.1	906.8	933.7	1155.8	985.3
45°	1468.2	1461.9	1355.6	1241.0	1174.0	1096.4	1007.1	990.1	1010.6	1255.8	1079.7
47.5°	1661.1	1646.4	1512.1	1354.0	1278.4	1209.1	1120.8	1091.3	1102.5	1369.4	1201.8
50°	1728.1	1717.1	1605.8	1448.1	1377.1	1346.4	1260.9	1219.0	1222.1	1504.9	1344.7
52.5°	1713.6	1712.1	1637.8	1510.1	1469.5	1490.8	1459.2	1402.7	1372.8	1655.3	1498.9
55°	1679.7	1682.9	1656.1	1582.2	1575.3	1629.9	1718.4	1676.6	1583.5	1807.0	1658.3
57.5°	1561.7	1570.2	1629.2	1673.0	1745.4	1826.9	1927.2	1915.2	1810.5	1971.0	1847.9
60°	1258.1	1277.7	1436.2	1655.3	1920.7	2175.1	2219.9	2192.3	2044.6	2174.6	2098.4
62.5°	881.5	901.9	1090.3	1433.2	1891.9	2568.3	2743.3	2624.2	2380.6	2474.5	2422.3
65°	472.0	481.8	625.6	994.4	1597.2	2649.4	3508.2	3327.0	2912.9	2844.2	2699.6
67.5°	260.4	265.7	320.7	502.0	1023.0	2333.1	3995.5	4132.5	3578.0	3090.4	2649.1
69°	235.5	240.4	276.4	380.2	684.5	1929.1	3948.0	4344.9	3869.6	3066.1	2462.6
70°	230.2	234.8	267.2	350.5	554.1	1590.0	3788.4	4290.6	3939.2	2978.7	2299.9
72.5°	207.1	212.2	243.6	314.7	473.5	792.7	3001.0	3627.7	3576.3	2582.7	1744.6
75°	193.2	197.8	251.2	308.3	453.3	501.7	1978.3	2673.7	2629.0	1806.7	940.6
77.5°	82.7	82.3	116.5	260.9	460.1	485.7	1063.1	1670.2	1523.8	772.3	270.1
80°	55.2	54.3	55.2	76.7	421.8	488.5	556.9	847.8	640.4	196.8	133.2
82.5°	47.5	46.8	48.5	46.8	148.3	557.6	473.5	450.8	304.5	111.9	66.0
85°	32.0	30.7	41.8	42.1	70.0	495.4	533.3	380.9	246.4	66.4	32.7
87.5°	15.3	15.0	24.4	29.7	41.1	201.2	598.4	390.3	248.4	34.0	15.6
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°	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1
2.5°	1002.2	994.4	986.7	977.5	967.9	957.1	951.7	946.4	945.1	943.6	938.1
5°	974.6	963.4	944.3	923.2	901.0	879.2	862.7	852.4	844.6	840.5	833.4
7.5°	939.0	922.5	889.1	852.6	815.2	780.9	751.4	732.9	715.2	707.0	697.6
10°	905.0	880.6	828.4	774.6	721.0	669.3	620.8	586.5	556.0	538.8	526.8
12.5°	875.8	842.4	770.1	697.4	623.8	550.2	477.6	420.3	372.6	347.5	334.6
15°	847.5	807.1	714.7	622.3	527.8	427.9	332.2	267.4	228.0	212.2	206.8
17.5°	821.7	770.1	659.1	546.8	428.9	307.9	223.3	187.6	172.5	167.2	165.5
20°	793.9	732.7	601.3	467.7	325.6	215.2	174.4	158.7	152.5	151.0	150.2
22.5°	767.0	695.9	546.0	383.2	233.9	166.2	149.8	143.3	142.4	143.6	143.6
25°	744.2	662.8	486.3	294.7	171.7	139.9	134.1	132.5	136.2	141.2	142.1
27.5°	727.1	635.8	422.9	217.5	136.8	121.6	121.5	123.9	133.0	142.6	144.4
30°	715.4	610.1	354.9	156.9	114.7	107.1	110.2	115.5	128.7	142.4	146.0
32.5°	709.4	591.1	284.2	121.5	98.3	94.0	99.2	105.8	118.8	131.4	136.2
35°	714.1	577.1	217.3	101.3	86.8	83.5	88.8	95.2	102.8	108.1	111.9
37.5°	731.4	571.5	164.0	90.8	78.8	75.8	80.0	83.7	86.8	88.3	90.0
40°	768.5	577.4	131.4	85.3	74.4	70.6	72.3	73.6	75.6	77.1	77.9
42.5°	823.4	595.4	117.8	83.2	72.1	66.5	66.2	66.7	69.3	72.1	72.6
45°	900.2	626.8	116.8	84.5	71.0	63.3	61.6	62.4	66.2	70.6	71.3
47.5°	998.2	674.7	124.5	88.6	71.9	61.6	58.7	59.6	64.5	70.4	71.3
50°	1116.9	741.7	137.3	94.6	76.2	62.0	57.8	58.4	63.3	69.8	70.8
52.5°	1257.2	836.7	151.4	100.3	80.6	64.5	58.6	57.2	61.7	67.5	68.8
55°	1413.2	958.5	165.7	105.6	82.9	67.5	60.1	55.6	58.9	63.7	64.7
57.5°	1604.7	1128.8	190.6	110.5	84.4	69.6	61.6	54.1	55.2	58.7	59.4
60°	1863.9	1369.8	234.7	118.8	87.9	70.4	61.4	52.8	51.6	53.5	53.9
62.5°	2174.5	1631.5	271.3	129.2	93.6	71.0	60.2	51.8	48.5	48.5	48.9
65°	2358.8	1701.5	251.0	137.7	98.5	70.4	58.9	50.8	46.2	44.1	44.4
67.5°	2202.4	1496.5	215.0	139.6	98.3	67.7	56.9	49.1	43.9	40.7	40.5
69°	2006.5	1291.1	199.0	134.8	93.6	64.3	54.1	47.2	42.2	38.8	38.6
70°	1848.6	1165.9	188.4	129.9	88.6	61.7	52.0	45.5	40.9	37.5	37.2
72.5°	1344.1	763.9	160.9	111.7	73.1	51.8	44.9	39.9	36.5	34.5	34.2
75°	671.7	364.4	130.7	90.5	56.0	41.4	36.8	33.5	31.6	31.2	31.0
77.5°	220.6	166.9	93.4	67.5	41.6	32.4	29.7	27.2	26.9	28.0	27.7
80°	121.3	97.1	59.3	44.7	28.4	23.8	23.4	22.1	22.6	24.6	24.1
82.5°	61.7	50.5	36.6	26.9	19.2	17.1	18.6	17.8	18.6	20.3	20.1
85°	30.5	27.7	23.2	16.3	12.7	10.9	13.2	13.7	14.2	15.6	15.6
87.5°	17.7	16.3	12.2	7.6	6.3	5.8	7.6	7.4	8.8	9.7	9.4
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)