

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: P193750

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL4-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8065 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
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

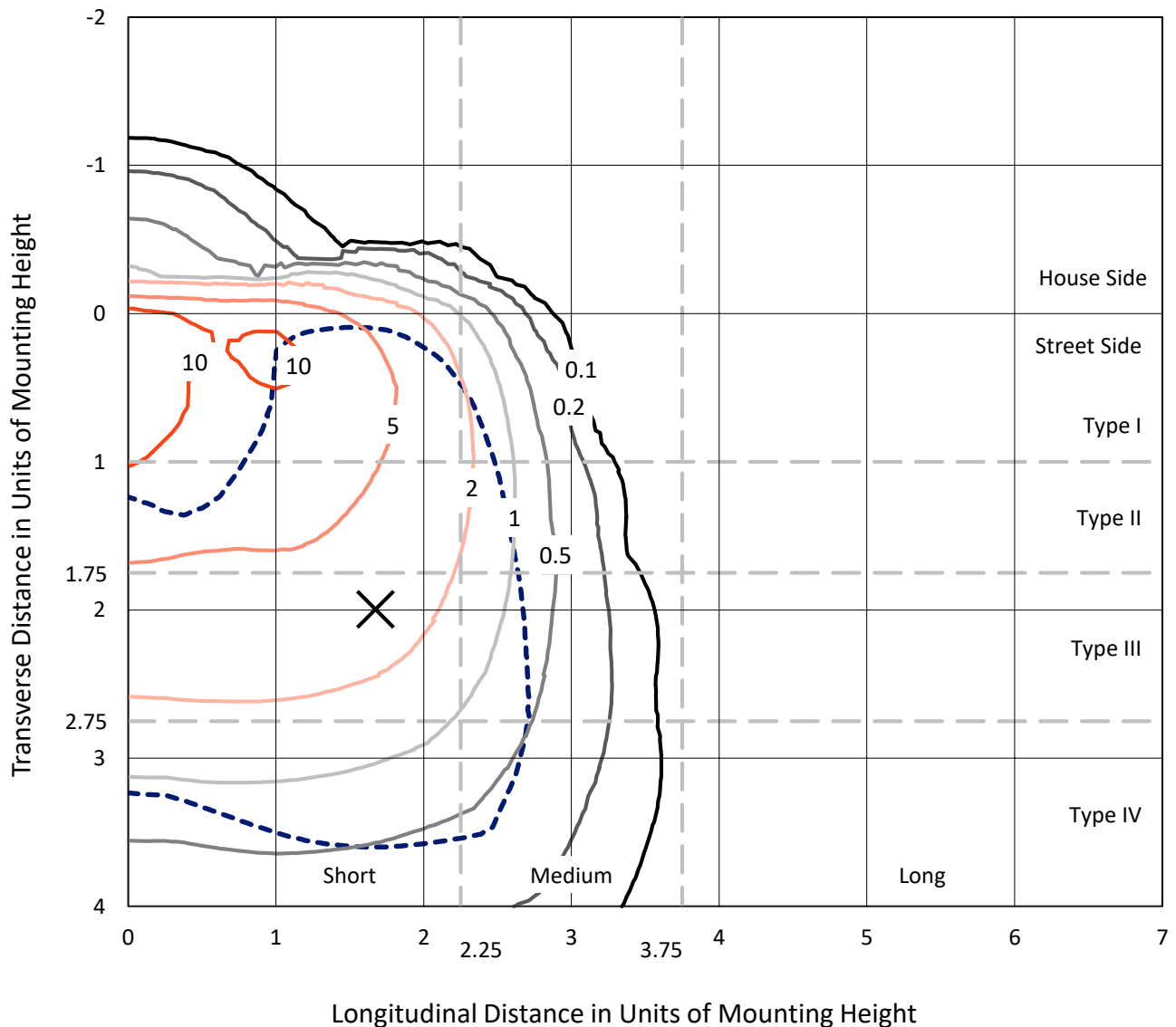


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

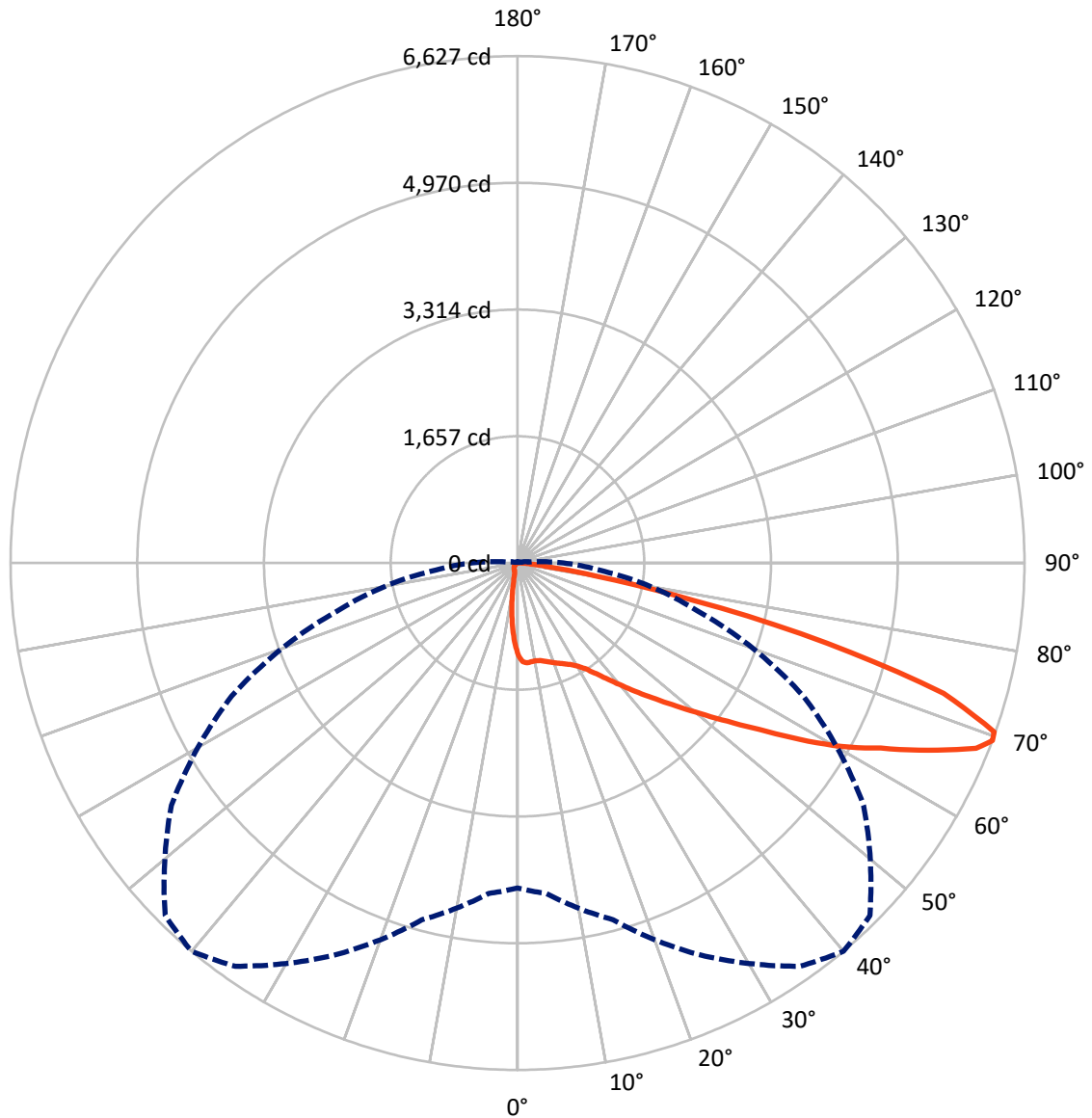


Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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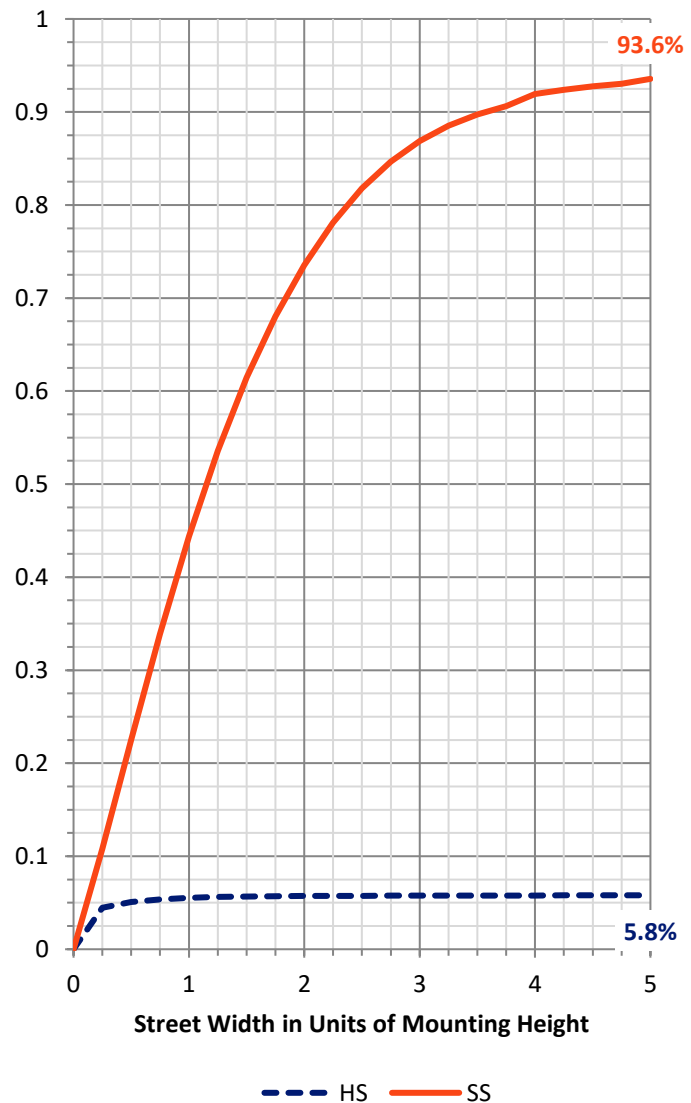
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	471.8	0.0	471.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	7593.2	0.0	7593.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	8065.0	0.0	8065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	1.2
10°-20°	240.3	3.0
20°-30°	404.7	5.0
30°-40°	662.5	8.2
40°-50°	1147.0	14.2
50°-60°	1806.7	22.4
60°-70°	2359.5	29.3
70°-80°	1215.2	15.1
80°-90°	131.5	1.6
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°	8065.0	100.0
0°-180°	8065.0	100.0

Coefficient of Utilization



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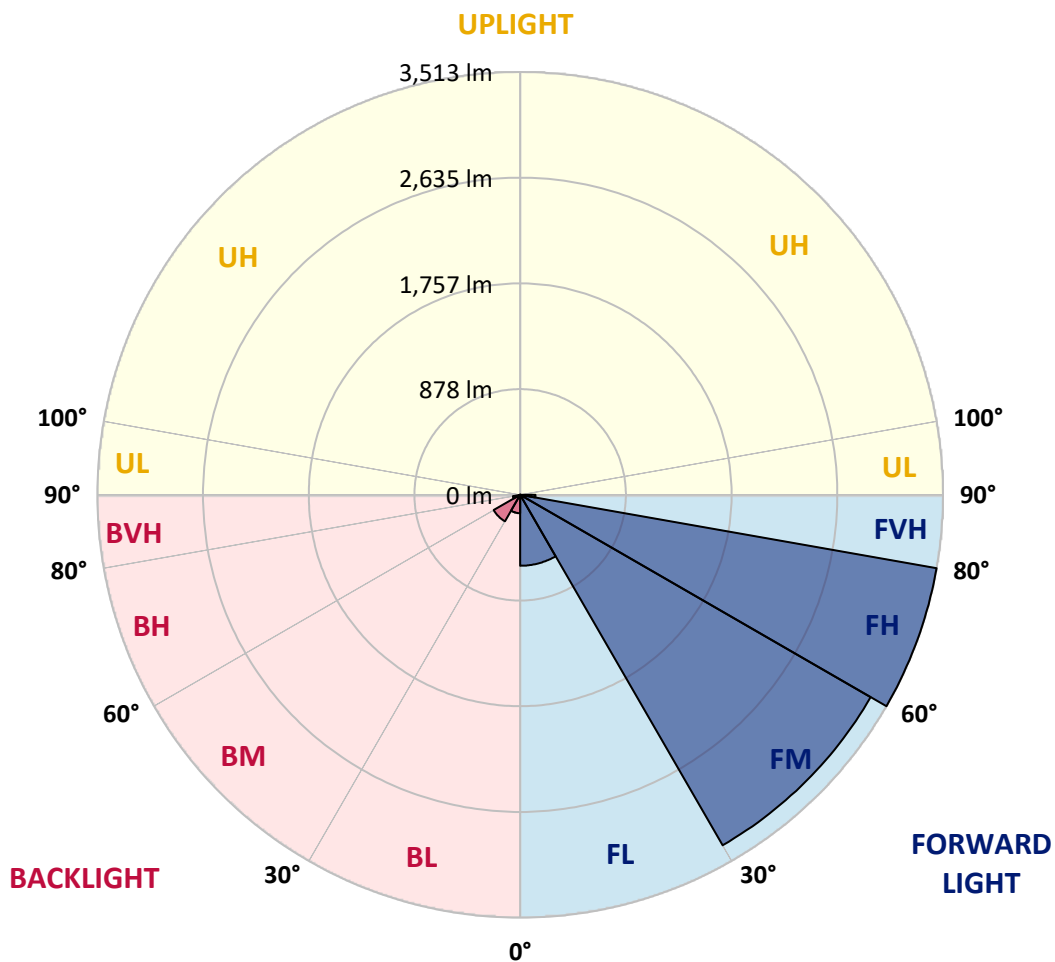
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	589.8	7.3			
FM	(30°-60°)	3362.6	41.7			
FH	(60°-80°)	3513.4	43.6			G2/5000
FVH	(80°-90°)	127.3	1.6			G2/225
BL	(0°-30°)	152.8	1.9	B1/500		
BM	(30°-60°)	253.6	3.1	B1/1000		
BH	(60°-80°)	61.3	0.8	B0/110		G0/110
BVH	(80°-90°)	4.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0
2.5°	1323.0	1315.8	1311.5	1305.8	1298.6	1292.3	1289.9	1272.2	1255.4	1232.3	1205.9
5°	1347.5	1345.1	1337.4	1329.8	1321.1	1311.5	1306.2	1285.1	1261.1	1227.5	1181.4
7.5°	1349.9	1347.1	1337.4	1326.9	1314.9	1303.4	1294.2	1273.1	1251.0	1217.0	1160.8
10°	1346.1	1342.7	1335.5	1324.0	1309.1	1298.1	1289.0	1268.8	1250.1	1219.4	1156.9
12.5°	1341.8	1338.4	1335.0	1329.3	1316.3	1308.6	1301.0	1281.8	1265.0	1239.0	1170.9
15°	1346.1	1344.2	1348.0	1345.6	1338.4	1331.7	1324.0	1306.7	1291.4	1269.8	1196.3
17.5°	1364.3	1364.3	1376.3	1377.8	1371.1	1361.5	1350.4	1333.1	1320.2	1301.9	1226.6
20°	1407.1	1405.6	1421.0	1423.9	1407.5	1392.7	1376.3	1355.2	1345.1	1333.6	1256.3
22.5°	1480.5	1473.8	1482.9	1480.0	1447.9	1424.8	1404.7	1378.7	1373.5	1368.2	1289.4
25°	1576.0	1572.2	1578.4	1550.1	1493.5	1462.3	1438.3	1409.0	1409.0	1414.3	1326.9
27.5°	1714.8	1700.4	1679.3	1629.3	1544.4	1504.5	1478.6	1447.4	1455.5	1475.2	1376.3
30°	1856.9	1841.0	1792.5	1715.7	1606.3	1564.5	1534.3	1501.6	1520.8	1556.8	1442.6
32.5°	1997.1	1979.3	1910.6	1813.7	1695.1	1653.3	1624.0	1588.0	1620.2	1680.7	1539.6
35°	2132.9	2117.1	2037.9	1923.6	1813.2	1778.6	1751.7	1720.5	1761.8	1846.3	1676.4
37.5°	2285.6	2268.3	2171.8	2047.9	1956.7	1931.8	1912.1	1880.9	1952.9	2076.7	1867.0
40°	2473.3	2444.0	2313.9	2190.5	2122.8	2110.8	2097.4	2093.1	2204.9	2376.3	2120.9
42.5°	2688.3	2640.3	2462.7	2340.8	2305.3	2313.9	2310.5	2329.7	2520.3	2748.8	2430.1
45°	2903.4	2841.5	2628.3	2501.1	2505.9	2536.2	2554.9	2631.7	2915.4	3176.1	2762.7
47.5°	3085.8	3024.9	2787.2	2674.4	2732.0	2791.6	2842.4	2987.9	3321.5	3596.6	3021.5
50°	3241.9	3184.2	2955.7	2865.0	2994.6	3090.6	3173.2	3388.7	3758.4	3916.8	3203.0
52.5°	3369.5	3331.1	3130.5	3083.4	3294.7	3435.3	3556.3	3814.6	4145.3	4177.0	3344.1
55°	3493.9	3466.5	3318.2	3343.1	3647.0	3838.6	3991.7	4266.3	4478.5	4394.0	3479.5
57.5°	3636.9	3612.0	3532.3	3672.5	4110.3	4351.3	4518.3	4666.7	4771.8	4615.8	3607.2
60°	3782.9	3768.5	3770.4	4038.3	4642.2	4873.6	4965.7	5004.2	5059.8	4824.6	3614.4
62.5°	3922.1	3949.5	4042.6	4445.4	5151.5	5329.2	5375.7	5413.6	5348.4	4857.7	3339.3
65°	4157.8	4202.5	4424.7	4990.2	5711.8	5901.9	5949.9	5819.8	5394.0	4429.5	2716.2
67.5°	4273.0	4354.6	4751.2	5498.1	6255.2	6466.4	6448.7	5846.2	4840.5	3377.7	1743.1
69°	4249.0	4335.9	4826.5	5653.7	6435.7	6627.2	6514.4	5523.1	4123.7	2446.9	1070.1
70°	4154.0	4241.8	4787.6	5647.9	6458.7	6610.4	6392.5	5124.2	3486.7	1789.2	669.2
72.5°	3468.9	3544.8	4250.5	5105.0	5949.9	5826.5	5347.9	3550.0	1698.9	487.3	150.7
75°	2135.3	2177.6	3049.8	3845.8	4493.8	4177.0	3563.0	1766.1	506.5	137.8	83.5
77.5°	1128.1	1147.3	1669.7	2266.8	2848.7	2357.1	1826.2	688.9	233.3	86.4	60.5
80°	666.8	681.2	899.2	1036.5	1232.8	1029.7	730.2	422.9	167.1	54.2	53.8
82.5°	381.6	390.8	651.9	576.1	485.8	414.8	363.4	400.9	100.3	36.5	55.7
85°	140.2	142.1	366.8	438.3	289.0	171.9	180.5	332.2	26.9	23.0	43.7
87.5°	65.3	63.8	188.7	268.4	169.0	109.0	140.7	73.0	10.6	14.9	12.0
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°	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0
2.5°	1190.6	1172.8	1140.6	1107.5	1073.9	1048.0	1022.5	1002.4	995.6	983.2	984.1
5°	1154.1	1121.4	1054.2	986.0	915.0	856.4	801.2	756.6	735.0	712.9	712.9
7.5°	1122.4	1074.9	969.7	858.8	744.1	647.6	560.7	495.4	459.4	430.6	430.1
10°	1110.4	1046.1	899.2	740.3	580.4	448.9	345.6	279.4	245.3	223.2	222.3
12.5°	1115.7	1036.0	844.9	630.8	430.1	288.5	200.2	157.5	143.1	136.3	136.3
15°	1131.0	1033.1	790.7	523.7	303.9	180.5	133.0	121.5	120.5	120.5	120.5
17.5°	1149.7	1034.1	735.0	419.6	206.9	129.1	114.7	113.3	114.3	114.3	114.3
20°	1168.9	1034.5	675.0	323.1	145.9	112.3	108.0	107.5	108.5	108.5	109.0
22.5°	1192.5	1036.9	615.0	241.5	120.5	106.1	102.7	102.7	103.2	103.2	102.7
25°	1219.4	1041.7	552.5	179.1	109.9	101.8	98.9	98.4	98.9	98.4	97.9
27.5°	1253.0	1048.5	482.9	140.2	105.1	97.5	95.1	95.1	94.6	94.1	93.6
30°	1295.2	1056.1	404.7	119.1	100.3	93.6	91.2	90.7	90.3	89.3	89.3
32.5°	1359.5	1072.9	327.4	108.0	95.1	88.3	86.4	86.4	85.5	84.5	84.0
35°	1458.4	1106.1	258.3	101.3	89.3	82.6	80.2	80.2	79.2	78.7	78.2
37.5°	1595.2	1156.5	200.7	95.1	83.5	76.3	73.9	73.4	72.5	71.5	71.0
40°	1777.2	1218.9	157.9	89.3	77.8	70.1	68.2	67.2	65.3	63.8	63.8
42.5°	2005.7	1289.9	128.2	83.1	71.0	64.3	62.9	61.4	58.1	56.6	56.2
45°	2244.8	1353.8	108.5	75.8	64.3	58.6	57.6	55.2	50.9	49.4	49.4
47.5°	2417.1	1368.7	95.5	69.1	58.1	52.3	51.8	47.5	43.7	42.7	42.2
50°	2524.6	1339.4	85.0	62.4	52.3	46.6	45.1	39.8	37.4	36.5	36.0
52.5°	2597.1	1287.0	76.3	56.6	47.0	41.3	37.9	34.1	32.2	31.2	31.2
55°	2655.2	1213.1	67.7	51.4	42.7	37.0	32.2	29.3	27.4	26.4	26.4
57.5°	2671.5	1112.8	59.0	47.0	38.4	32.6	27.4	25.4	23.0	22.6	22.6
60°	2553.0	931.8	52.3	41.8	34.6	28.3	24.0	21.6	19.2	18.7	18.2
62.5°	2240.4	721.1	46.1	37.0	30.2	24.5	20.6	17.8	15.8	15.8	15.8
65°	1709.0	483.4	40.3	32.2	26.4	20.6	17.8	14.4	13.4	13.4	13.9
67.5°	1023.0	263.1	34.6	27.4	22.6	17.3	14.9	12.5	12.0	12.5	12.5
69°	599.6	154.6	31.2	24.5	19.7	15.4	13.0	11.0	12.0	12.5	12.5
70°	370.1	104.2	28.8	22.1	17.8	13.9	12.0	10.6	11.5	12.0	12.0
72.5°	103.2	53.8	23.0	17.3	14.4	11.5	9.6	9.6	11.0	11.5	11.5
75°	67.2	39.8	17.8	13.0	11.0	9.1	8.2	9.1	10.6	11.0	11.0
77.5°	55.7	32.6	14.4	10.6	9.1	8.6	7.7	8.2	9.6	10.1	10.1
80°	50.9	23.0	11.5	9.6	8.2	7.7	7.2	6.7	8.6	9.1	9.1
82.5°	48.5	18.2	10.1	8.6	7.7	6.7	6.2	6.7	7.7	8.2	8.6
85°	30.2	12.0	9.1	8.2	6.7	6.2	6.2	6.2	7.2	7.7	7.7
87.5°	11.0	9.6	8.2	6.7	5.8	5.8	5.8	5.8	6.2	7.2	7.2
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)