

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: P269163

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269163
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-03-LED-E1-SL4-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 8442.7 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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

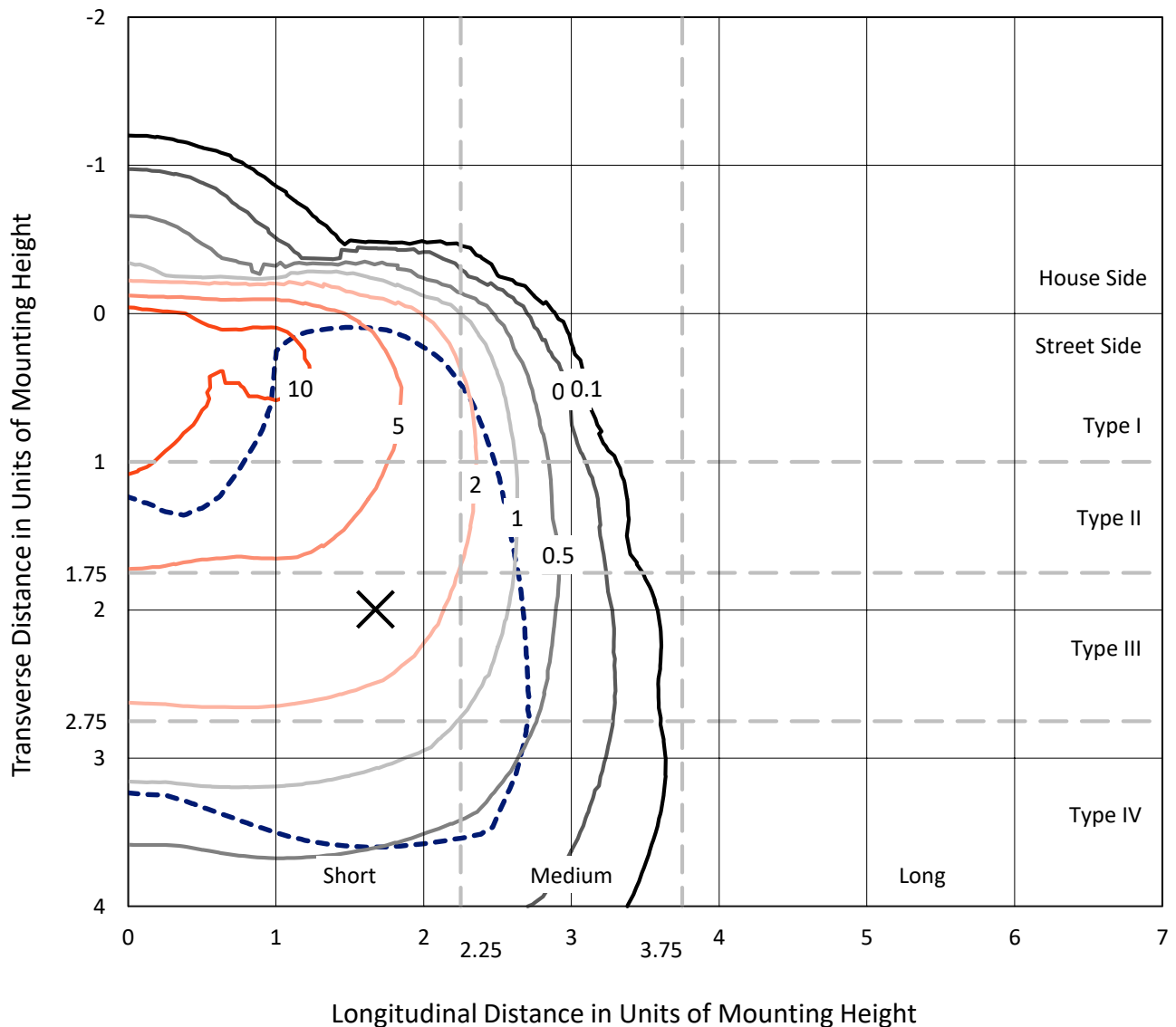


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

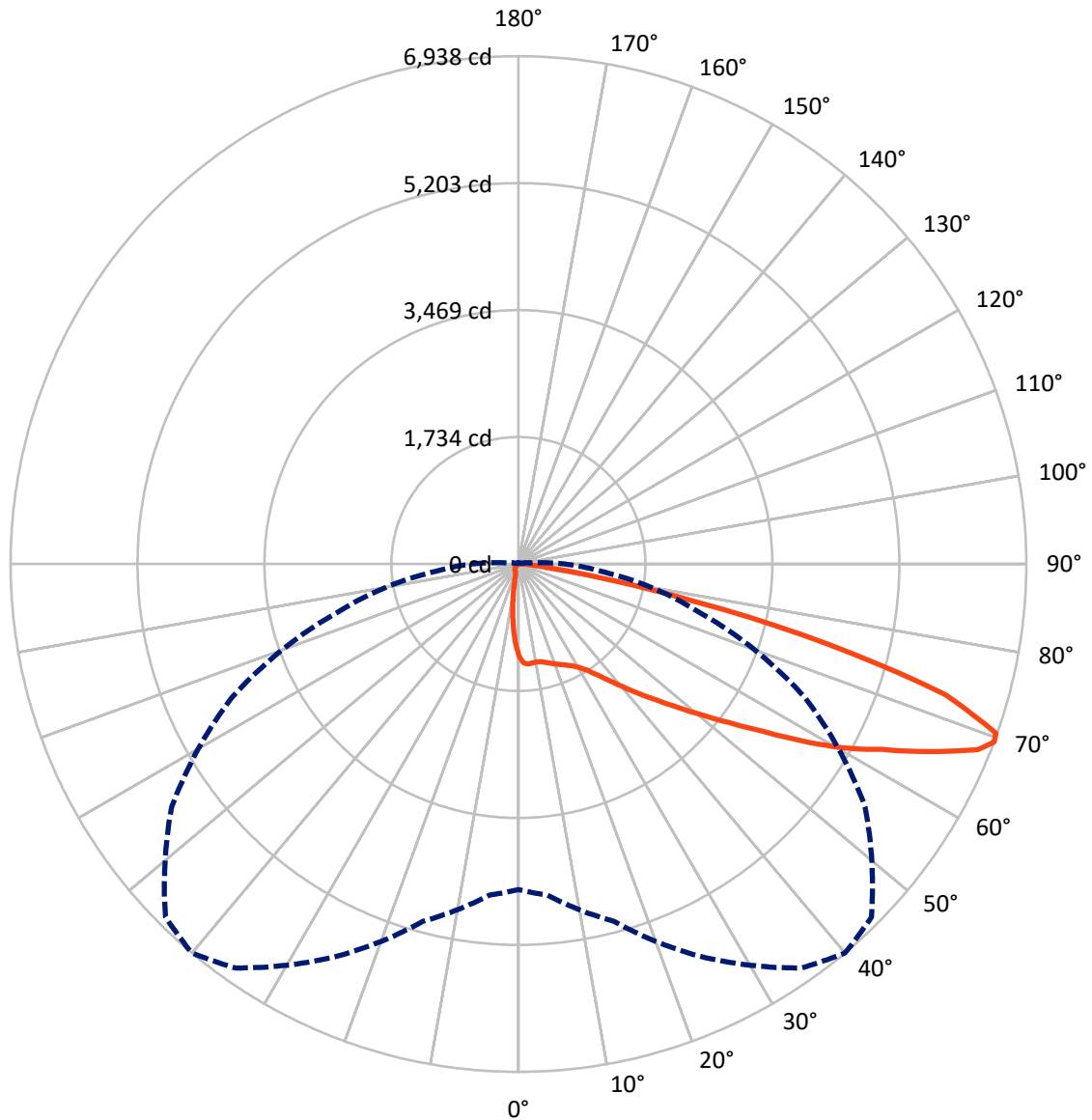


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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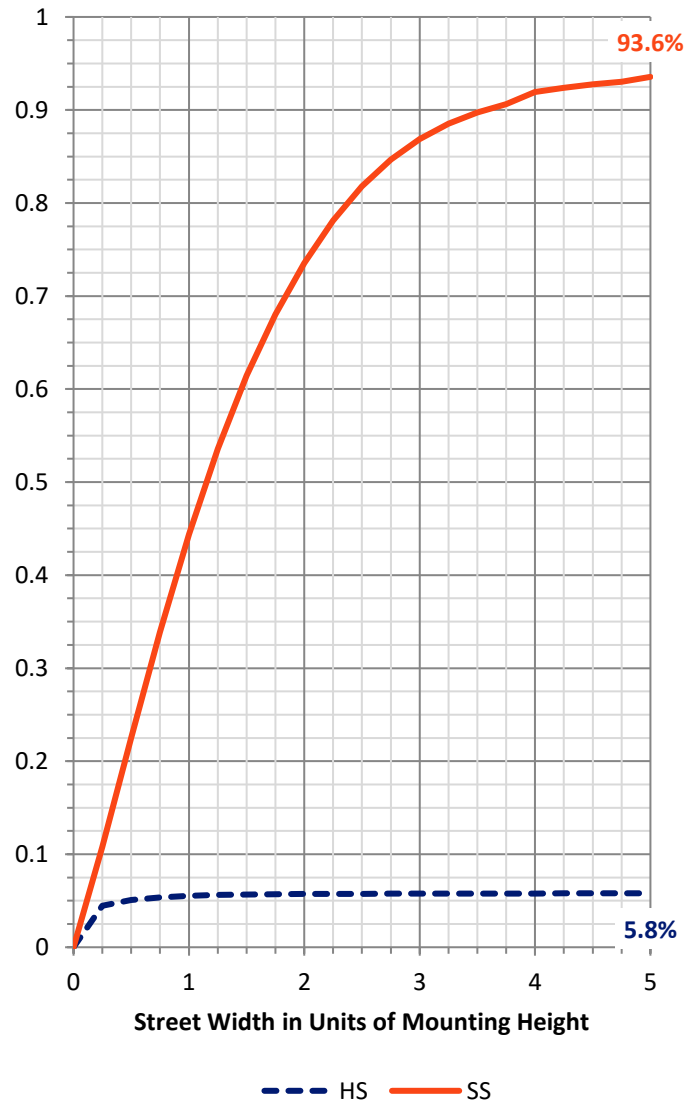
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	493.9	0.0	493.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	7948.8	0.0	7948.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	8442.7	0.0	8442.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	1.2
10°-20°	251.5	3.0
20°-30°	423.6	5.0
30°-40°	693.5	8.2
40°-50°	1200.8	14.2
50°-60°	1891.3	22.4
60°-70°	2470.0	29.3
70°-80°	1272.2	15.1
80°-90°	137.6	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°	8442.7	100.0
0°-180°	8442.7	100.0



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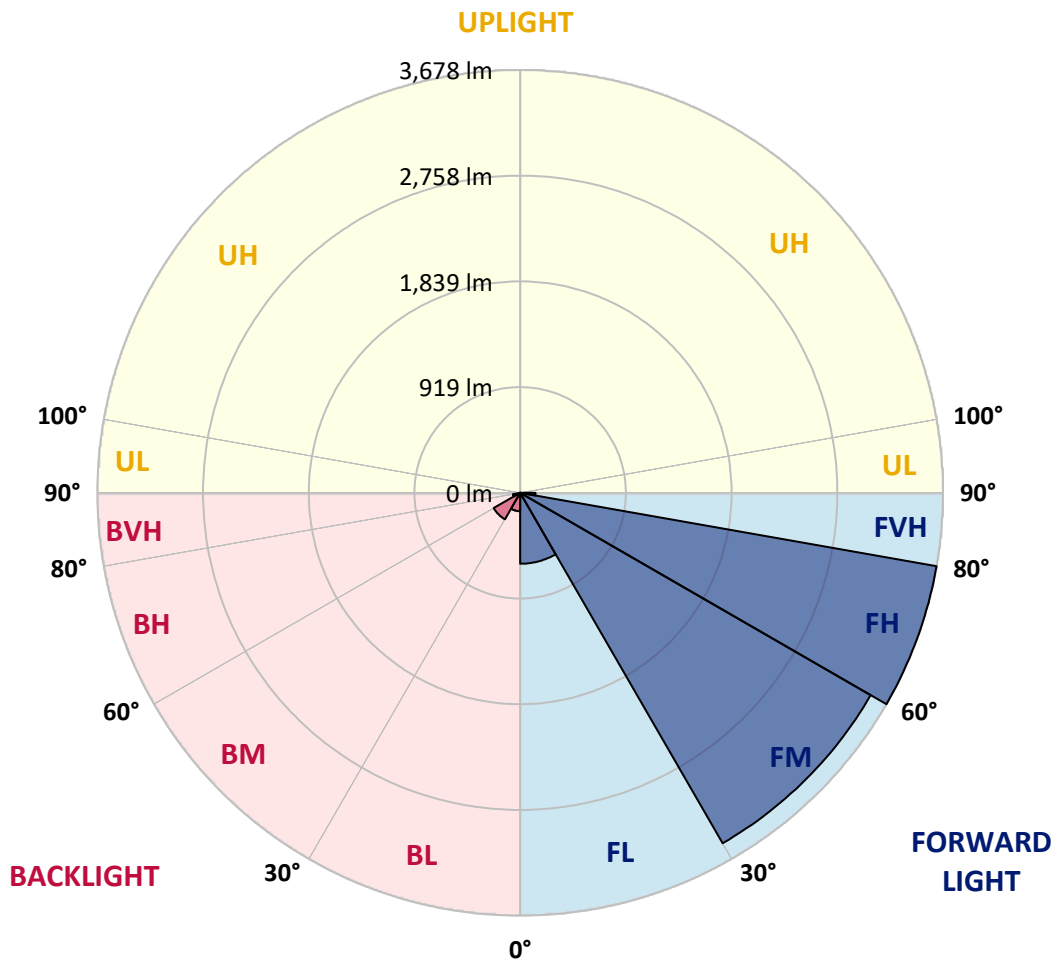
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	617.4	7.3			
FM	(30°-60°)	3520.1	41.7			
FH	(60°-80°)	3678.0	43.6			G2/5000
FVH	(80°-90°)	133.3	1.6			G2/225
BL	(0°-30°)	160.0	1.9	B1/500		
BM	(30°-60°)	265.5	3.1	B1/1000		
BH	(60°-80°)	64.1	0.8	B0/110		G0/110
BVH	(80°-90°)	4.3	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°	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4
2.5°	1384.9	1377.6	1373.0	1367.0	1359.3	1352.8	1350.3	1331.7	1314.1	1290.1	1262.4
5°	1410.7	1408.2	1400.1	1392.1	1383.0	1373.0	1367.4	1345.3	1320.1	1284.9	1236.7
7.5°	1413.2	1410.1	1400.1	1389.0	1376.5	1364.3	1354.9	1332.7	1309.5	1273.9	1215.1
10°	1409.1	1405.6	1398.1	1386.1	1370.5	1358.9	1349.3	1328.2	1308.7	1276.4	1211.2
12.5°	1404.6	1401.0	1397.6	1391.6	1378.0	1369.9	1361.9	1341.8	1324.2	1297.1	1225.6
15°	1409.1	1407.1	1411.1	1408.6	1401.0	1394.1	1386.1	1367.8	1351.8	1329.2	1252.3
17.5°	1428.2	1428.2	1440.8	1442.3	1435.2	1425.3	1413.7	1395.5	1382.0	1362.9	1283.9
20°	1473.0	1471.5	1487.6	1490.6	1473.5	1457.9	1440.8	1418.7	1408.2	1396.1	1315.2
22.5°	1549.8	1542.7	1552.4	1549.3	1515.7	1491.5	1470.4	1443.2	1437.7	1432.3	1349.9
25°	1649.8	1645.9	1652.3	1622.7	1563.4	1530.7	1505.6	1474.9	1474.9	1480.4	1389.0
27.5°	1795.2	1780.0	1758.0	1705.6	1616.7	1575.0	1547.8	1515.3	1523.7	1544.4	1440.8
30°	1943.8	1927.3	1876.5	1796.2	1681.4	1637.8	1606.1	1571.9	1592.1	1629.7	1510.1
32.5°	2090.5	2072.0	2000.2	1898.6	1774.5	1730.8	1700.1	1662.5	1696.1	1759.4	1611.6
35°	2232.7	2216.2	2133.3	2013.7	1898.1	1861.9	1833.8	1801.1	1844.3	1932.8	1754.8
37.5°	2392.6	2374.5	2273.5	2143.8	2048.3	2022.3	2001.7	1968.9	2044.4	2174.0	1954.4
40°	2589.2	2558.5	2422.3	2293.2	2222.2	2209.7	2195.5	2191.1	2308.1	2487.5	2220.3
42.5°	2814.2	2763.9	2578.0	2450.3	2413.1	2422.3	2418.7	2438.9	2638.3	2877.6	2543.9
45°	3039.3	2974.6	2751.4	2618.3	2623.3	2654.9	2674.6	2754.9	3051.9	3324.8	2892.2
47.5°	3230.3	3166.5	2917.8	2799.7	2859.9	2922.2	2975.5	3127.8	3477.1	3765.1	3163.0
50°	3393.6	3333.4	3094.1	2999.3	3134.8	3235.3	3321.8	3547.4	3934.3	4100.3	3353.0
52.5°	3527.4	3487.1	3277.0	3227.8	3449.0	3596.3	3722.8	3993.2	4339.4	4372.6	3500.8
55°	3657.4	3628.9	3473.6	3499.6	3817.8	4018.4	4178.6	4466.2	4688.3	4599.9	3642.4
57.5°	3807.2	3781.1	3697.8	3844.4	4302.8	4555.0	4729.9	4885.3	4995.3	4832.0	3776.1
60°	3960.1	3944.9	3947.0	4227.5	4859.7	5101.8	5198.3	5238.5	5296.8	5050.6	3783.7
62.5°	4105.8	4134.4	4231.9	4653.6	5392.7	5578.7	5627.5	5667.1	5598.9	5085.2	3495.7
65°	4352.5	4399.3	4631.9	5224.0	5979.3	6178.3	6228.5	6092.3	5646.6	4637.1	2843.3
67.5°	4473.1	4558.5	4973.6	5755.6	6548.1	6769.3	6750.7	6120.0	5067.1	3535.9	1824.7
69°	4448.0	4539.0	5052.5	5918.5	6737.1	6937.6	6819.6	5781.8	4316.9	2561.4	1120.1
70°	4348.5	4440.5	5011.9	5912.5	6761.3	6920.1	6691.8	5364.1	3650.0	1873.0	700.6
72.5°	3631.4	3710.8	4449.6	5344.0	6228.5	6099.3	5598.3	3716.3	1778.6	510.1	157.8
75°	2235.3	2279.4	3192.7	4025.8	4704.3	4372.6	3729.9	1848.8	530.2	144.3	87.5
77.5°	1181.0	1201.0	1747.8	2373.1	2982.2	2467.5	1911.7	721.2	244.2	90.5	63.3
80°	698.1	713.2	941.2	1085.1	1290.5	1078.0	764.4	442.8	174.9	56.9	56.2
82.5°	399.6	409.1	682.4	603.0	508.6	434.2	380.4	419.6	105.0	38.2	58.3
85°	146.8	148.8	383.9	458.9	302.5	179.9	189.0	347.7	28.1	24.2	45.8
87.5°	68.4	66.8	197.4	280.9	176.8	114.1	147.2	76.4	11.0	15.6	12.5
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°	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4
2.5°	1246.3	1227.8	1194.0	1159.4	1124.1	1097.1	1070.4	1049.3	1042.3	1029.2	1030.3
5°	1208.1	1173.9	1103.6	1032.2	957.9	896.6	838.7	792.0	769.4	746.3	746.3
7.5°	1175.0	1125.1	1015.2	899.1	778.9	678.0	587.0	518.6	481.0	450.8	450.3
10°	1162.3	1095.0	941.2	774.9	607.6	469.9	361.8	292.5	256.7	233.6	232.8
12.5°	1167.8	1084.6	884.6	660.3	450.3	302.0	209.6	164.7	149.7	142.7	142.7
15°	1184.0	1081.5	827.7	548.2	318.1	189.0	139.1	127.1	126.1	126.1	126.1
17.5°	1203.5	1082.5	769.4	439.2	216.6	135.1	120.2	118.5	119.7	119.7	119.7
20°	1223.8	1082.9	706.5	338.2	152.8	117.6	113.0	112.6	113.5	113.5	114.1
22.5°	1248.4	1085.5	643.7	252.8	126.1	111.1	107.5	107.5	108.1	108.1	107.5
25°	1276.4	1090.5	578.4	187.4	115.2	106.4	103.6	103.0	103.6	103.0	102.5
27.5°	1311.6	1097.5	505.6	146.8	110.0	102.0	99.5	99.5	99.1	98.5	97.9
30°	1355.8	1105.6	423.6	124.7	105.0	97.9	95.5	95.0	94.5	93.5	93.5
32.5°	1423.3	1123.2	342.8	113.0	99.5	92.4	90.5	90.5	89.4	88.5	87.9
35°	1526.7	1157.8	270.4	106.0	93.5	86.4	83.9	83.9	83.0	82.5	81.9
37.5°	1669.9	1210.6	210.1	99.5	87.5	79.9	77.4	76.8	75.8	74.9	74.4
40°	1860.4	1276.0	165.4	93.5	81.3	73.4	71.3	70.3	68.4	66.8	66.8
42.5°	2099.6	1350.3	134.1	87.0	74.4	67.4	65.8	64.3	60.8	59.3	58.7
45°	2349.8	1417.2	113.5	79.4	67.4	61.4	60.2	57.9	53.3	51.7	51.7
47.5°	2530.3	1432.7	100.0	72.4	60.8	54.7	54.3	49.8	45.8	44.7	44.2
50°	2642.9	1402.2	88.9	65.3	54.7	48.8	47.3	41.7	39.2	38.2	37.6
52.5°	2718.8	1347.3	79.9	59.3	49.2	43.2	39.6	35.8	33.6	32.7	32.7
55°	2779.5	1269.9	70.8	53.8	44.7	38.6	33.6	30.6	28.7	27.7	27.7
57.5°	2796.7	1164.9	61.9	49.2	40.2	34.1	28.7	26.6	24.2	23.6	23.6
60°	2672.5	975.4	54.7	43.7	36.2	29.6	25.2	22.5	20.1	19.7	19.1
62.5°	2345.4	754.8	48.2	38.6	31.7	25.6	21.6	18.5	16.6	16.6	16.6
65°	1789.1	506.0	42.2	33.6	27.7	21.6	18.5	15.1	14.1	14.1	14.6
67.5°	1070.9	275.4	36.2	28.7	23.6	18.1	15.6	13.0	12.5	13.0	13.0
69°	627.6	161.9	32.7	25.6	20.7	16.1	13.6	11.6	12.5	13.0	13.0
70°	387.4	109.1	30.2	23.1	18.5	14.6	12.5	11.0	12.0	12.5	12.5
72.5°	108.1	56.2	24.2	18.1	15.1	12.0	10.1	10.1	11.6	12.0	12.0
75°	70.3	41.7	18.5	13.6	11.6	9.5	8.5	9.5	11.0	11.6	11.6
77.5°	58.3	34.1	15.1	11.0	9.5	9.1	8.1	8.5	10.1	10.6	10.6
80°	53.3	24.2	12.0	10.1	8.5	8.1	7.5	7.0	9.1	9.5	9.5
82.5°	50.8	19.1	10.6	9.1	8.1	7.0	6.6	7.0	8.1	8.5	9.1
85°	31.7	12.5	9.5	8.5	7.0	6.6	6.6	6.6	7.5	8.1	8.1
87.5°	11.6	10.1	8.5	7.0	6.0	6.0	6.0	6.0	6.6	7.5	7.5
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)