

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: STREETWORKS

Report Number: P192000

Luminaire Tested: **GAN-AF-02-LED-U-SL4-7050-800-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192000
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: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-SL4-7050-800-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA 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: 7986 lumens
Efficiency: N/A
Efficacy: 94.0 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): 85
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: 28.75 FT

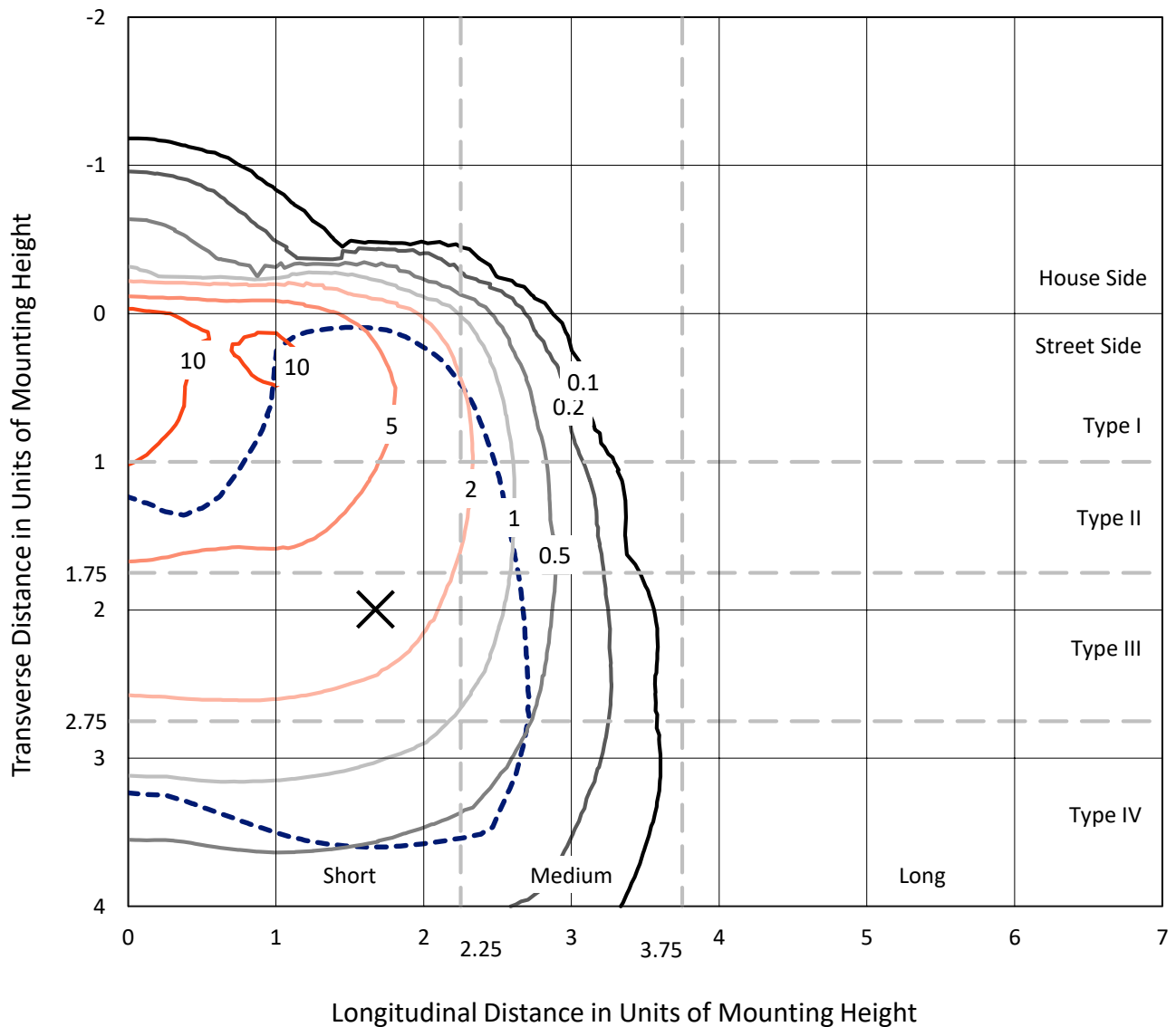


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

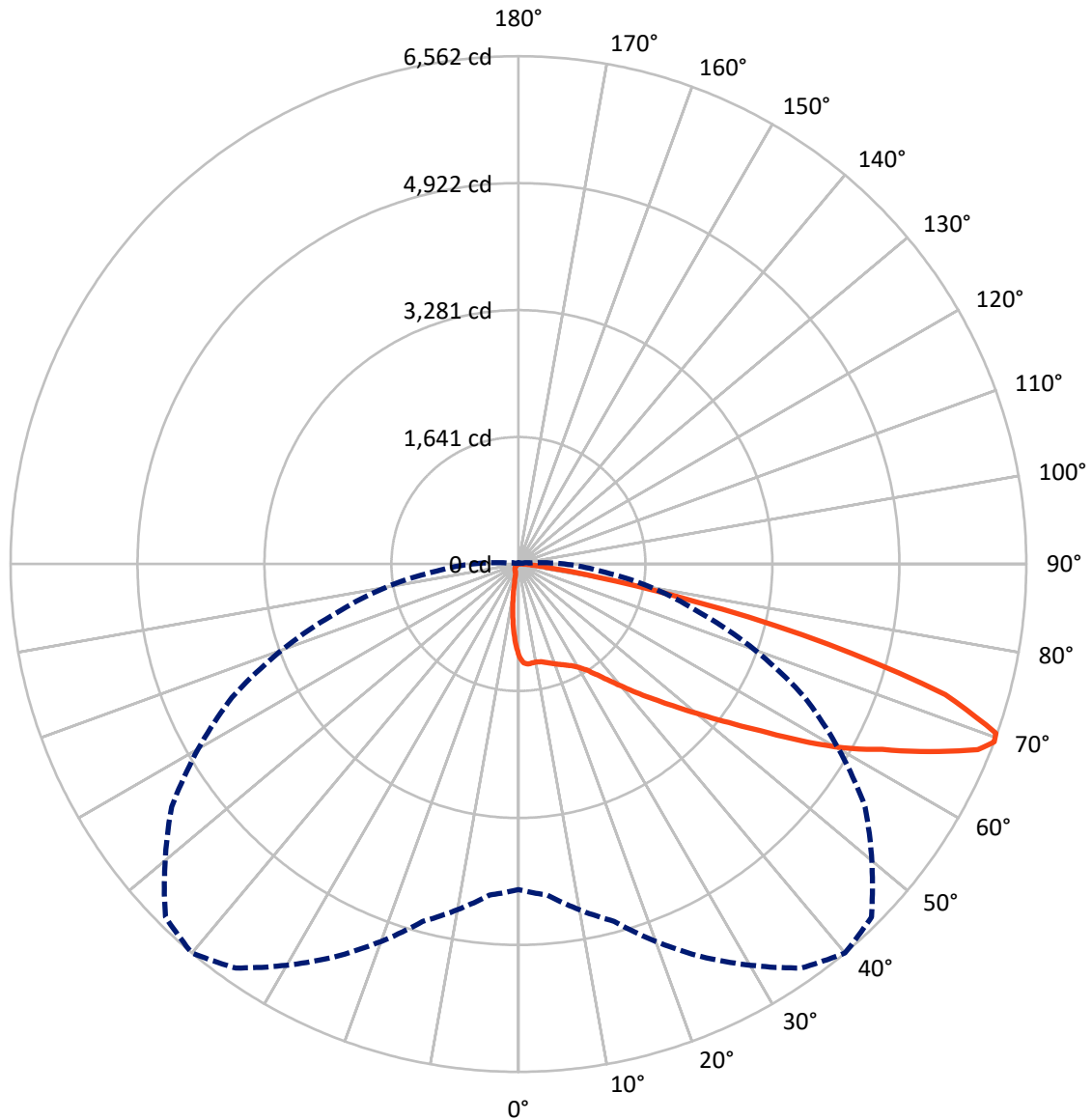


Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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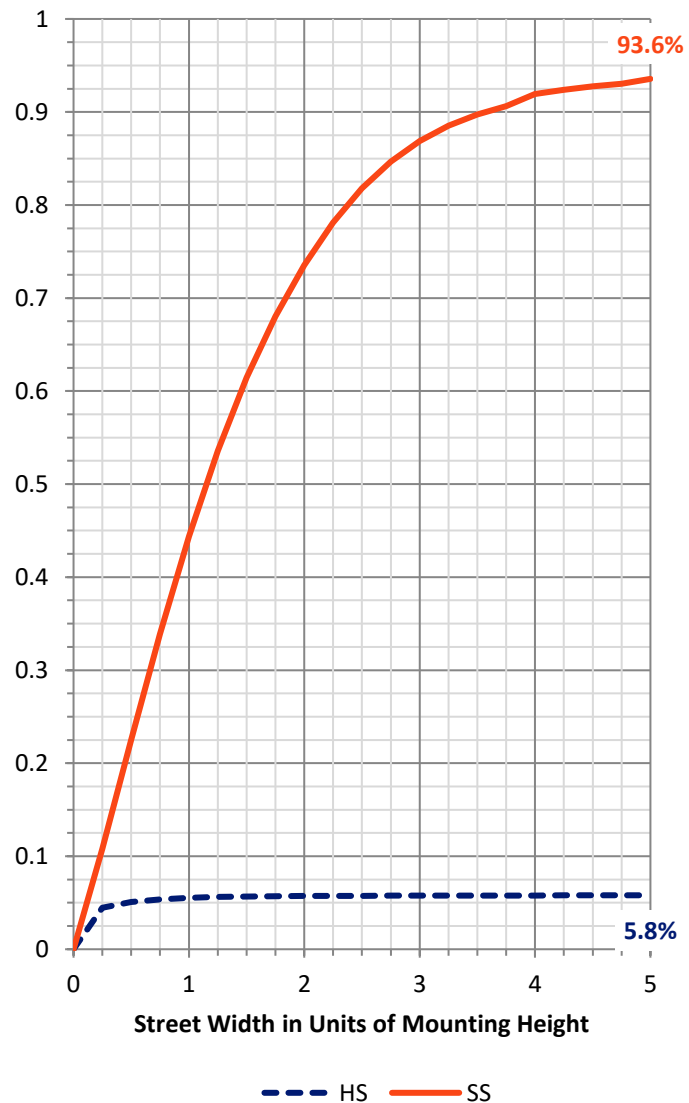
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	467.2	0.0	467.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	7518.8	0.0	7518.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	7986.0	0.0	7986.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	1.2
10°-20°	237.9	3.0
20°-30°	400.7	5.0
30°-40°	656.0	8.2
40°-50°	1135.8	14.2
50°-60°	1789.0	22.4
60°-70°	2336.4	29.3
70°-80°	1203.3	15.1
80°-90°	130.2	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°	7986.0	100.0
0°-180°	7986.0	100.0

Coefficient of Utilization



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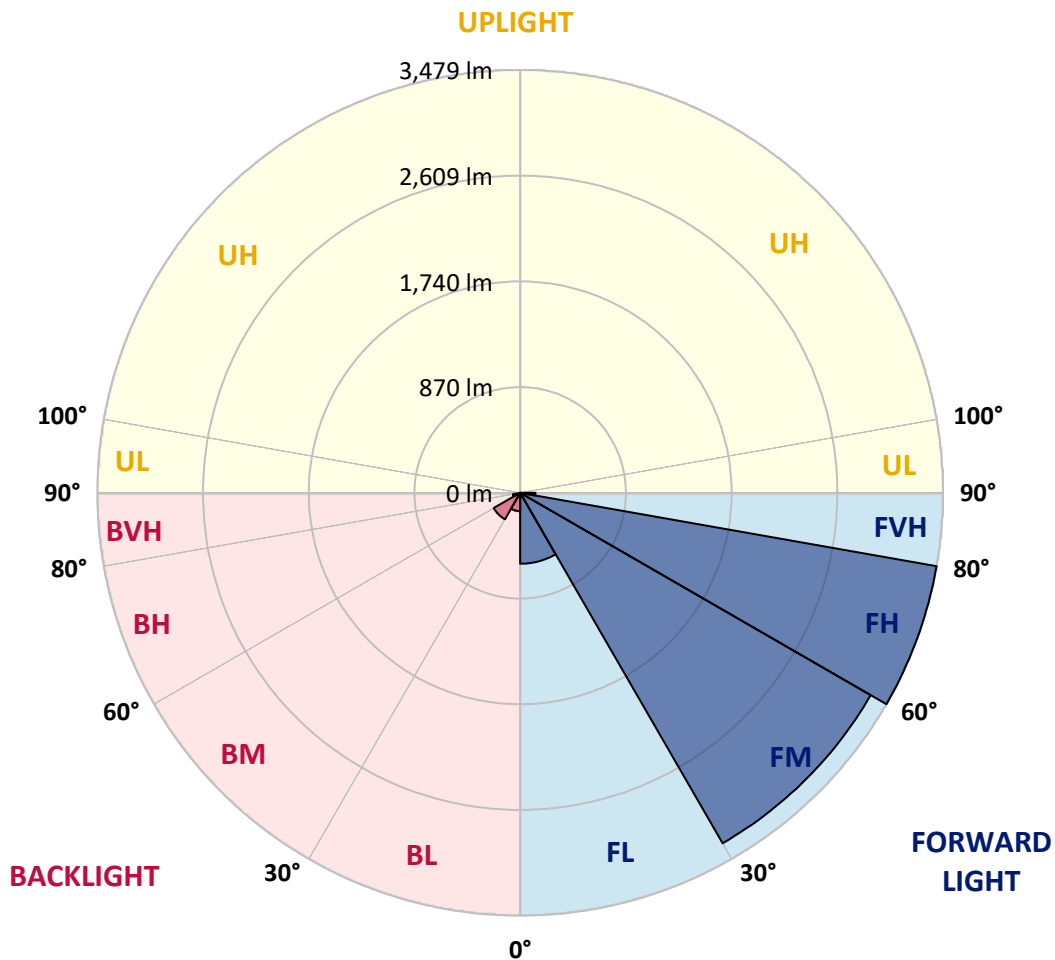
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.0	7.3			
FM (30°-60°)	3329.7	41.7			
FH (60°-80°)	3479.0	43.6			G2/5000
FVH (80°-90°)	126.1	1.6			G2/225
BL (0°-30°)	151.3	1.9	B1/500		
BM (30°-60°)	251.1	3.1	B1/1000		
BH (60°-80°)	60.7	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°	1193.1	1193.1	1193.1	1193.1	1193.1	1193.1	1193.1	1193.1	1193.1	1193.1	1193.1
2.5°	1310.1	1303.0	1298.7	1293.0	1285.8	1279.7	1277.3	1259.7	1243.1	1220.2	1194.1
5°	1334.3	1332.0	1324.3	1316.7	1308.2	1298.7	1293.5	1272.5	1248.8	1215.5	1169.9
7.5°	1336.7	1333.9	1324.3	1313.9	1302.0	1290.6	1281.6	1260.7	1238.8	1205.0	1149.4
10°	1332.9	1329.6	1322.4	1311.0	1296.3	1285.4	1276.3	1256.4	1237.8	1207.4	1145.6
12.5°	1328.6	1325.3	1322.0	1316.3	1303.4	1295.8	1288.2	1269.2	1252.6	1226.9	1159.4
15°	1332.9	1331.0	1334.8	1332.4	1325.3	1318.6	1311.0	1293.9	1278.7	1257.3	1184.6
17.5°	1351.0	1351.0	1362.9	1364.3	1357.6	1348.1	1337.2	1320.1	1307.2	1289.2	1214.5
20°	1393.3	1391.8	1407.1	1409.9	1393.8	1379.0	1362.9	1341.9	1332.0	1320.5	1244.0
22.5°	1466.0	1459.4	1468.4	1465.5	1433.7	1410.9	1390.9	1365.2	1360.0	1354.8	1276.8
25°	1560.6	1556.8	1563.0	1534.9	1478.8	1447.9	1424.2	1395.2	1395.2	1400.4	1313.9
27.5°	1698.0	1683.7	1662.8	1613.4	1529.2	1489.8	1464.1	1433.2	1441.3	1460.8	1362.9
30°	1838.7	1823.0	1775.0	1698.9	1590.5	1549.2	1519.2	1486.9	1505.9	1541.6	1428.5
32.5°	1977.5	1959.9	1891.9	1795.9	1678.5	1637.1	1608.1	1572.5	1604.3	1664.2	1524.5
35°	2112.0	2096.3	2017.9	1904.8	1795.4	1761.2	1734.6	1703.7	1744.6	1828.2	1660.0
37.5°	2263.2	2246.1	2150.5	2027.9	1937.6	1912.8	1893.4	1862.5	1933.8	2056.4	1848.7
40°	2449.0	2420.0	2291.2	2169.1	2102.0	2090.2	2076.8	2072.6	2183.3	2353.0	2100.1
42.5°	2662.0	2614.5	2438.6	2317.8	2282.7	2291.2	2287.9	2306.9	2495.6	2721.9	2406.3
45°	2875.0	2813.6	2602.6	2476.6	2481.4	2511.3	2529.9	2605.9	2886.9	3145.0	2735.7
47.5°	3055.6	2995.2	2759.9	2648.2	2705.3	2764.2	2814.6	2958.6	3289.0	3561.4	2991.9
50°	3210.1	3153.1	2926.8	2836.9	2965.3	3060.4	3142.1	3355.6	3721.6	3878.4	3171.6
52.5°	3336.5	3298.5	3099.8	3053.2	3262.4	3401.7	3521.5	3777.2	4104.7	4136.1	3311.3
55°	3459.7	3432.6	3285.7	3310.4	3611.3	3801.0	3952.6	4224.5	4434.6	4351.0	3445.4
57.5°	3601.3	3576.6	3497.7	3636.5	4070.0	4308.6	4474.1	4621.0	4725.1	4570.6	3571.8
60°	3745.8	3731.6	3733.5	3998.7	4596.7	4825.8	4917.1	4955.1	5010.3	4777.4	3579.0
62.5°	3883.7	3910.8	4003.0	4401.8	5101.1	5277.0	5323.1	5360.6	5296.0	4810.2	3306.6
65°	4117.1	4161.3	4381.4	4941.4	5655.8	5844.1	5891.6	5762.8	5341.1	4386.1	2689.6
67.5°	4231.2	4312.0	4704.6	5444.3	6193.9	6403.1	6385.5	5788.9	4793.0	3344.6	1726.0
69°	4207.4	4293.4	4779.3	5598.3	6372.7	6562.3	6450.6	5469.0	4083.3	2422.9	1059.6
70°	4113.3	4200.3	4740.7	5592.6	6395.5	6545.7	6329.9	5074.0	3452.5	1771.7	662.6
72.5°	3434.9	3510.0	4208.8	5055.0	5891.6	5769.4	5295.5	3515.3	1682.3	482.5	149.3
75°	2114.4	2156.2	3020.0	3808.1	4449.8	4136.1	3528.1	1748.8	501.5	136.4	82.7
77.5°	1117.1	1136.1	1653.3	2244.6	2820.8	2334.0	1808.3	682.1	231.0	85.6	59.9
80°	660.3	674.5	890.3	1026.3	1220.7	1019.6	723.0	418.8	165.4	53.7	53.2
82.5°	377.9	386.9	645.5	570.4	481.1	410.7	359.8	396.9	99.3	36.1	55.1
85°	138.8	140.7	363.2	434.0	286.2	170.2	178.7	328.9	26.6	22.8	43.3
87.5°	64.6	63.2	186.8	265.7	167.3	107.9	139.3	72.3	10.5	14.7	11.9
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°	1193.1	1193.1	1193.1	1193.1	1193.1	1193.1	1193.1	1193.1	1193.1	1193.1	1193.1
2.5°	1178.9	1161.3	1129.5	1096.7	1063.4	1037.7	1012.5	992.5	985.9	973.5	974.5
5°	1142.8	1110.4	1043.9	976.4	906.0	848.0	793.4	749.2	727.8	705.9	705.9
7.5°	1111.4	1064.3	960.2	850.4	736.8	641.3	555.2	490.6	454.9	426.4	425.9
10°	1099.5	1035.8	890.3	733.0	574.7	444.5	342.3	276.7	242.9	221.0	220.1
12.5°	1104.7	1025.8	836.6	624.6	425.9	285.7	198.2	155.9	141.7	135.0	135.0
15°	1119.9	1023.0	782.9	518.6	300.9	178.7	131.7	120.3	119.3	119.3	119.3
17.5°	1138.5	1023.9	727.8	415.5	204.9	127.9	113.6	112.2	113.1	113.1	113.1
20°	1157.5	1024.4	668.4	319.9	144.5	111.2	107.0	106.5	107.4	107.4	107.9
22.5°	1180.8	1026.8	608.9	239.1	119.3	105.1	101.7	101.7	102.2	102.2	101.7
25°	1207.4	1031.5	547.1	177.3	108.9	100.8	97.9	97.4	97.9	97.4	97.0
27.5°	1240.7	1038.2	478.2	138.8	104.1	96.5	94.1	94.1	93.6	93.2	92.7
30°	1282.5	1045.8	400.7	117.9	99.3	92.7	90.3	89.8	89.4	88.4	88.4
32.5°	1346.2	1062.4	324.2	107.0	94.1	87.5	85.6	85.6	84.6	83.7	83.2
35°	1444.1	1095.2	255.7	100.3	88.4	81.8	79.4	79.4	78.4	78.0	77.5
37.5°	1579.6	1145.1	198.7	94.1	82.7	75.6	73.2	72.7	71.8	70.8	70.4
40°	1759.8	1206.9	156.4	88.4	77.0	69.4	67.5	66.6	64.6	63.2	63.2
42.5°	1986.0	1277.3	126.9	82.2	70.4	63.7	62.3	60.8	57.5	56.1	55.6
45°	2222.8	1340.5	107.4	75.1	63.7	58.0	57.0	54.7	50.4	49.0	49.0
47.5°	2393.4	1355.2	94.6	68.5	57.5	51.8	51.3	47.1	43.3	42.3	41.8
50°	2499.9	1326.2	84.1	61.8	51.8	46.1	44.7	39.5	37.1	36.1	35.7
52.5°	2571.7	1274.4	75.6	56.1	46.6	40.9	37.6	33.8	31.8	30.9	30.9
55°	2629.2	1201.2	67.0	50.9	42.3	36.6	31.8	29.0	27.1	26.1	26.1
57.5°	2645.4	1101.9	58.5	46.6	38.0	32.3	27.1	25.2	22.8	22.3	22.3
60°	2528.0	922.7	51.8	41.4	34.2	28.0	23.8	21.4	19.0	18.5	18.1
62.5°	2218.5	714.0	45.6	36.6	29.9	24.2	20.4	17.6	15.7	15.7	15.7
65°	1692.3	478.7	39.9	31.8	26.1	20.4	17.6	14.3	13.3	13.3	13.8
67.5°	1013.0	260.5	34.2	27.1	22.3	17.1	14.7	12.4	11.9	12.4	12.4
69°	593.7	153.1	30.9	24.2	19.5	15.2	12.8	10.9	11.9	12.4	12.4
70°	366.5	103.2	28.5	21.9	17.6	13.8	11.9	10.5	11.4	11.9	11.9
72.5°	102.2	53.2	22.8	17.1	14.3	11.4	9.5	9.5	10.9	11.4	11.4
75°	66.6	39.5	17.6	12.8	10.9	9.0	8.1	9.0	10.5	10.9	10.9
77.5°	55.1	32.3	14.3	10.5	9.0	8.6	7.6	8.1	9.5	10.0	10.0
80°	50.4	22.8	11.4	9.5	8.1	7.6	7.1	6.7	8.6	9.0	9.0
82.5°	48.0	18.1	10.0	8.6	7.6	6.7	6.2	6.7	7.6	8.1	8.6
85°	29.9	11.9	9.0	8.1	6.7	6.2	6.2	6.2	7.1	7.6	7.6
87.5°	10.9	9.5	8.1	6.7	5.7	5.7	5.7	5.7	6.2	7.1	7.1
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)