

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: P193579

Luminaire Tested: **GAN-AF-01-LED-U-SL2-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-SL2-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3404 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-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: 28.75 FT



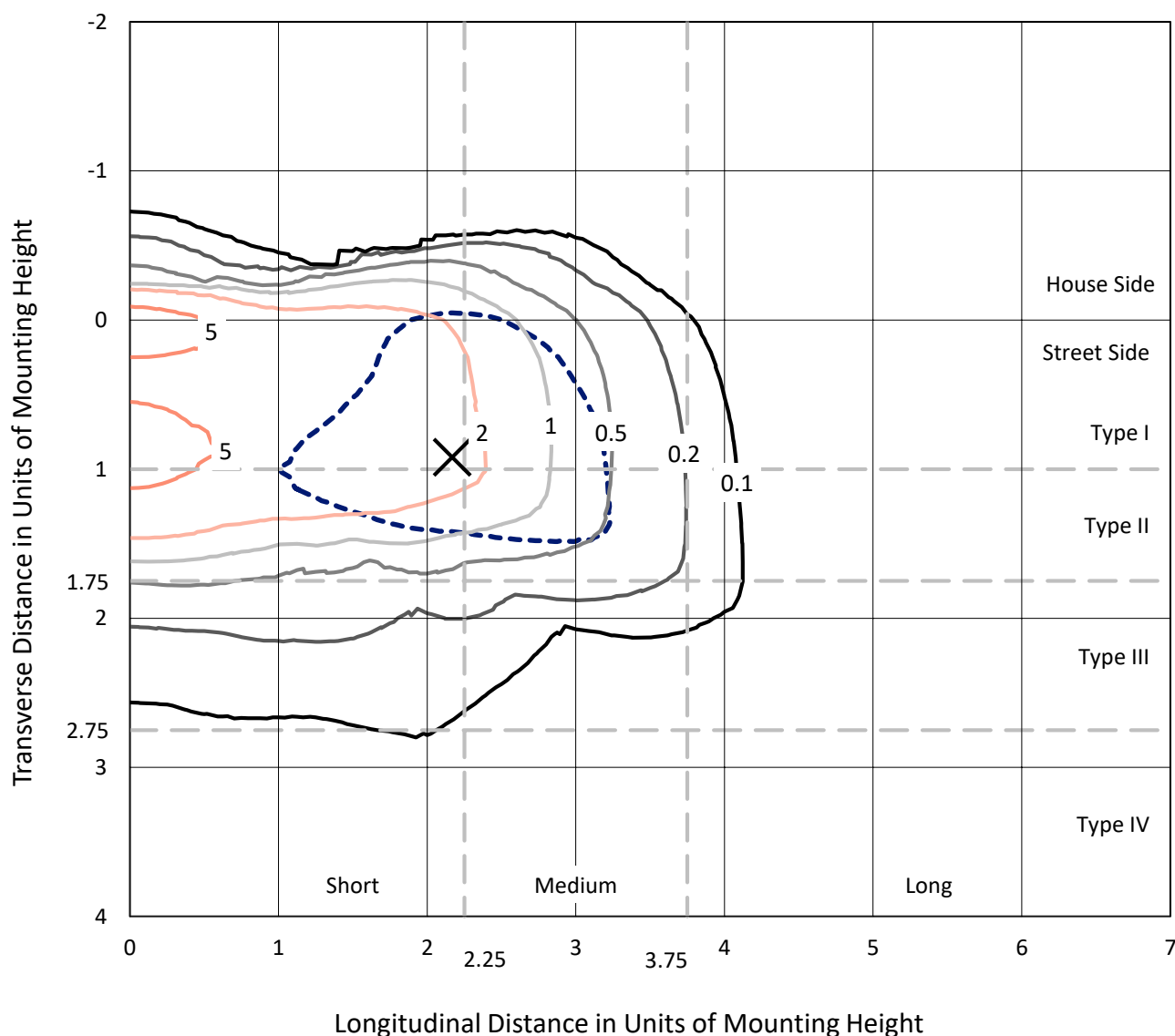
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

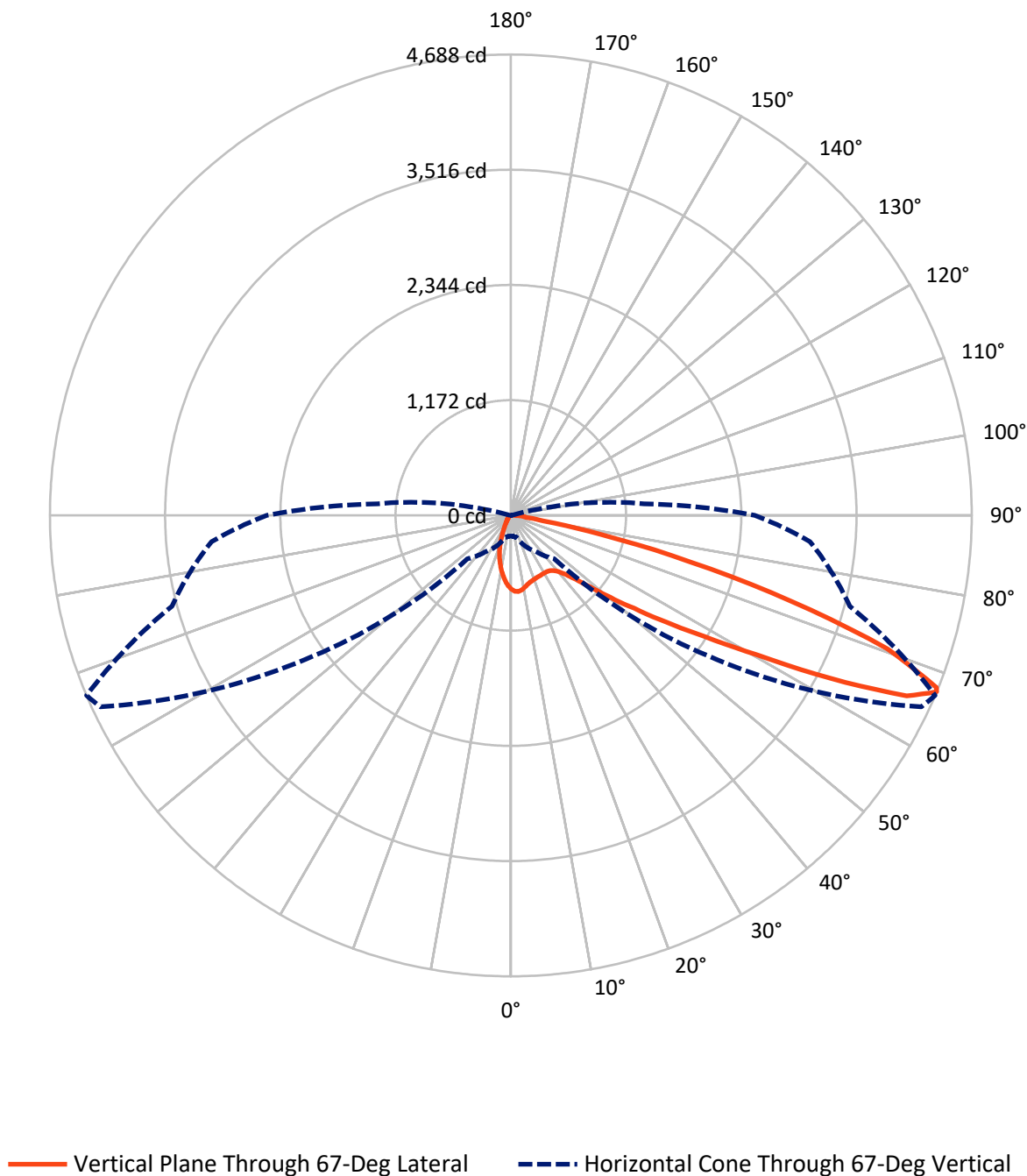


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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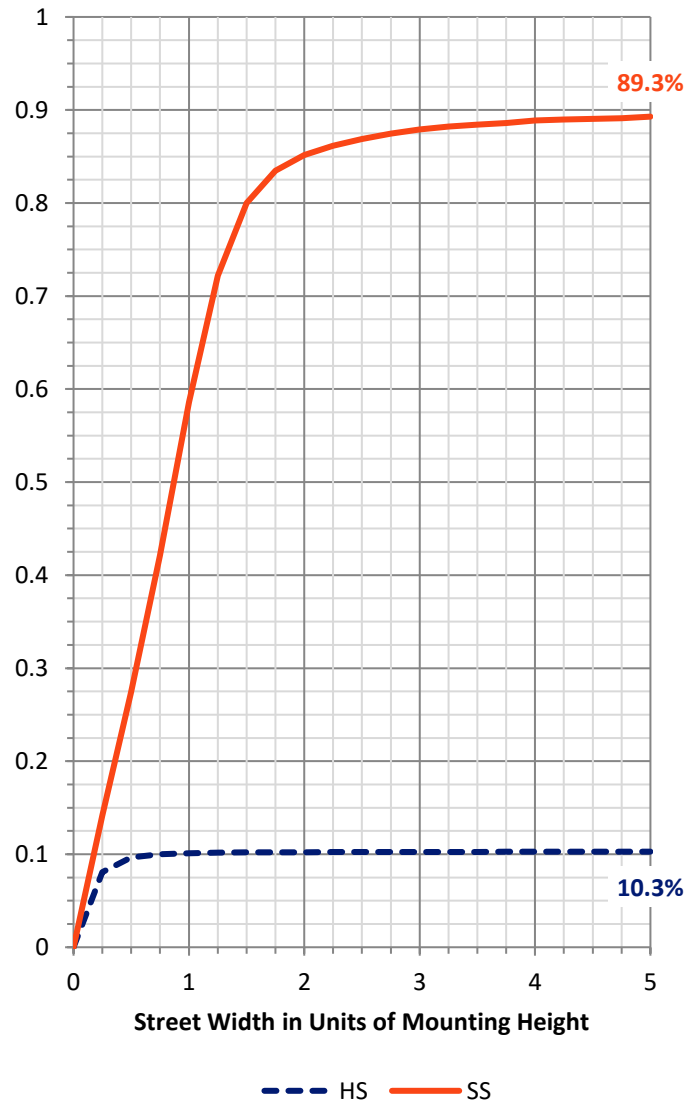
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	353.5	0.0	353.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3050.6	0.0	3050.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	3404.0	0.0	3404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	1.8
10°-20°	130.0	3.8
20°-30°	189.0	5.6
30°-40°	294.9	8.7
40°-50°	522.4	15.3
50°-60°	826.6	24.3
60°-70°	946.8	27.8
70°-80°	392.7	11.5
80°-90°	40.6	1.2
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°	3404.0	100.0
0°-180°	3404.0	100.0

Coefficient of Utilization



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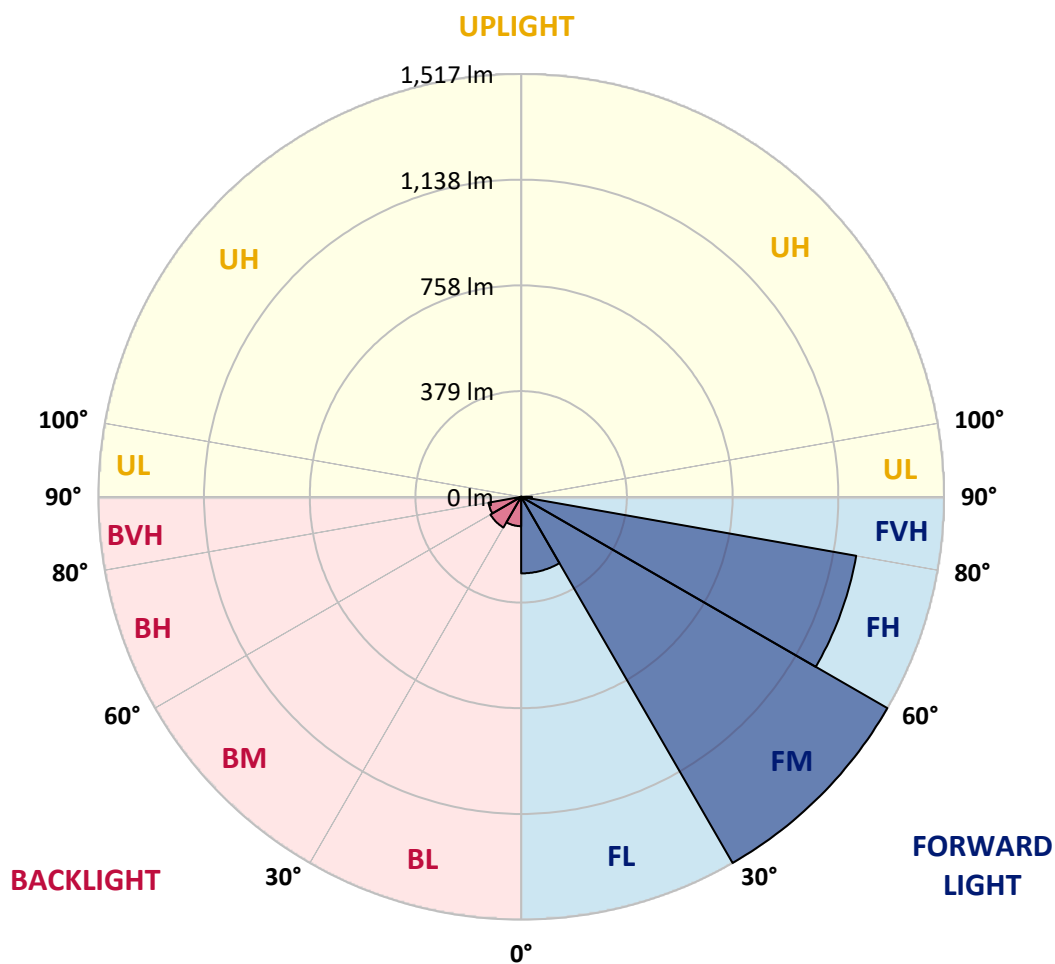
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	274.7	8.1			
FM	(30°-60°)	1516.8	44.6			
FH	(60°-80°)	1220.3	35.9			G1/1800
FVH	(80°-90°)	38.7	1.1			G1/100
BL	(0°-30°)	105.5	3.1	B0/110		
BM	(30°-60°)	127.0	3.7	B0/220		
BH	(60°-80°)	119.1	3.5	B1/500		G1/500
BVH	(80°-90°)	1.8	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7
2.5°	776.1	777.7	777.5	778.7	781.5	781.7	778.9	773.5	772.3	765.4	753.3
5°	715.8	720.3	723.1	734.4	747.1	762.4	773.9	778.1	777.5	772.5	754.3
7.5°	646.9	651.4	654.6	667.9	684.8	711.0	741.0	765.6	767.8	773.1	753.5
10°	601.0	601.8	606.2	618.9	636.5	663.3	699.1	742.2	748.7	768.4	751.5
12.5°	563.3	563.9	569.6	583.3	602.2	629.2	666.7	716.6	726.7	762.4	751.1
15°	536.5	538.7	543.8	558.1	578.2	605.0	643.5	697.7	709.8	760.2	754.7
17.5°	527.5	529.9	531.5	541.8	560.1	586.3	625.8	685.4	699.1	761.4	761.6
20°	536.9	538.7	535.1	537.7	549.0	572.4	610.9	674.9	691.1	762.8	770.6
22.5°	571.6	572.4	562.7	551.4	549.4	562.3	599.2	666.5	684.0	766.6	781.1
25°	631.2	629.8	613.9	589.5	566.5	560.5	592.3	661.4	680.4	770.6	792.0
27.5°	703.1	705.0	683.2	647.7	603.8	572.4	591.3	659.2	678.8	773.3	801.5
30°	790.4	793.2	768.2	723.5	660.6	601.8	600.4	658.8	677.8	771.6	802.3
32.5°	879.6	882.9	863.3	817.2	736.4	651.0	621.1	663.1	679.8	765.4	797.8
35°	972.9	977.6	964.5	925.0	839.3	722.1	657.4	676.5	689.2	764.8	793.2
37.5°	1101.7	1106.1	1081.5	1039.6	963.7	817.4	715.8	701.5	711.2	774.3	794.4
40°	1294.1	1293.5	1230.0	1165.9	1100.5	938.5	797.8	746.7	751.7	803.1	809.1
42.5°	1503.8	1502.8	1408.9	1311.4	1252.4	1087.6	905.6	825.0	821.6	856.1	847.2
45°	1665.4	1665.2	1588.6	1478.8	1435.3	1258.8	1045.0	933.8	928.6	942.3	917.5
47.5°	1734.3	1735.5	1697.0	1619.7	1638.0	1490.3	1220.7	1091.4	1083.7	1078.1	1040.4
50°	1680.7	1683.1	1686.3	1671.2	1786.7	1801.4	1456.3	1313.6	1309.8	1285.0	1226.0
52.5°	1505.6	1517.7	1555.0	1602.9	1838.4	2100.0	1825.8	1589.6	1569.3	1542.9	1478.0
55°	1210.5	1223.8	1294.7	1410.9	1761.5	2296.2	2343.7	1945.4	1911.6	1832.8	1739.1
57.5°	801.1	821.8	924.6	1072.4	1538.3	2327.8	2860.3	2439.2	2321.6	2105.8	2000.2
60°	441.4	461.2	572.8	706.6	1111.1	2171.7	3207.7	3082.1	2874.4	2411.0	2317.2
62.5°	271.8	282.5	364.9	489.4	666.3	1714.1	3279.6	3889.9	3649.5	2803.9	2700.2
65°	216.4	221.0	261.3	400.1	477.7	1019.5	3047.5	4505.8	4425.6	3279.6	3043.1
67°	210.1	211.9	230.9	343.5	450.3	625.0	2553.1	4606.1	4687.5	3567.5	3053.9
67.5°	211.5	213.4	231.5	327.8	449.5	574.4	2382.8	4566.6	4669.4	3590.3	3006.4
70°	203.9	210.1	265.1	327.6	427.5	477.3	1427.0	3956.7	4063.7	3336.0	2550.9
72.5°	72.3	72.7	114.6	265.1	464.8	482.5	716.6	2900.6	2979.8	2551.9	1839.1
75°	42.9	36.5	38.1	75.4	444.2	468.6	413.4	1853.4	1883.0	1462.3	931.4
77.5°	29.6	25.8	26.6	33.4	169.2	462.0	328.4	966.5	935.0	512.8	198.3
80°	16.9	14.9	15.9	29.2	61.5	431.0	309.7	391.9	334.2	87.0	54.8
82.5°	8.9	7.5	9.1	24.0	42.9	268.6	310.3	189.4	150.1	29.4	37.3
85°	3.2	2.6	4.4	16.5	28.6	82.4	287.7	159.2	125.1	14.3	28.4
87.5°	0.6	0.6	1.8	6.8	11.5	25.2	170.2	94.5	63.3	8.5	19.5
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°	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7
2.5°	748.3	739.8	728.3	714.2	697.5	682.8	671.9	660.6	658.2	654.2	653.6
5°	743.4	728.7	700.1	667.3	632.4	600.8	575.2	552.4	542.2	533.5	532.5
7.5°	736.0	714.0	665.3	612.5	557.9	508.3	466.2	436.4	409.0	395.9	393.9
10°	727.5	695.9	626.2	553.0	477.5	407.4	344.9	292.5	260.7	241.8	239.4
12.5°	719.5	678.2	586.3	491.2	390.9	297.2	216.8	166.8	133.4	119.9	118.3
15°	715.8	663.9	549.0	428.1	300.4	189.2	118.5	91.7	80.8	77.6	77.4
17.5°	715.4	651.8	512.5	362.7	210.5	110.0	77.2	70.5	68.3	67.5	67.5
20°	715.2	640.3	475.9	295.0	133.6	73.3	64.3	62.7	61.2	60.2	60.2
22.5°	717.4	630.0	437.8	225.9	84.2	59.4	56.6	55.0	53.0	51.6	51.4
25°	719.5	622.0	398.9	160.8	61.0	51.6	48.8	46.7	43.9	42.1	41.9
27.5°	719.9	612.1	357.2	107.6	51.0	45.1	41.5	38.1	34.9	33.2	33.0
30°	714.0	595.4	310.9	72.7	45.1	39.1	34.3	30.8	27.8	26.4	26.4
32.5°	702.3	574.8	260.1	54.8	40.1	33.6	28.4	25.0	23.0	22.4	22.2
35°	691.7	552.6	207.9	46.5	35.9	28.4	23.2	21.0	19.9	19.7	19.5
37.5°	685.6	534.7	158.8	42.1	32.0	23.8	19.7	18.1	17.5	17.1	17.3
40°	690.3	519.8	117.3	38.5	28.0	19.9	16.7	15.9	15.3	15.1	15.1
42.5°	711.2	517.2	87.2	35.3	24.2	16.5	14.5	13.9	13.5	13.3	13.5
45°	766.0	533.1	67.7	32.4	20.5	13.9	12.3	12.1	11.9	11.9	11.9
47.5°	848.4	565.9	56.4	29.0	17.1	11.9	10.7	10.5	10.3	10.5	10.5
50°	988.0	625.8	50.4	25.6	14.1	10.1	9.1	9.1	9.1	9.1	9.3
52.5°	1200.2	743.8	46.5	22.2	11.5	8.5	7.7	7.7	7.9	7.9	8.1
55°	1436.7	900.2	42.9	18.9	9.7	7.1	6.4	6.6	6.8	6.9	6.9
57.5°	1693.2	1073.5	39.9	15.5	8.3	5.8	5.4	5.6	5.8	6.2	6.2
60°	2002.7	1261.2	35.5	12.1	6.9	4.6	4.2	4.6	5.2	5.6	5.8
62.5°	2342.7	1442.6	30.0	9.5	5.8	3.6	3.4	4.2	5.0	5.4	5.6
65°	2575.0	1499.6	23.0	7.7	4.4	2.6	2.8	3.8	4.8	5.4	5.4
67°	2480.8	1359.7	18.9	6.6	3.6	2.0	2.6	3.8	4.8	5.2	5.4
67.5°	2415.5	1304.9	18.1	6.4	3.4	2.0	2.6	3.8	4.8	5.4	5.4
70°	1965.4	980.2	15.1	4.8	2.8	1.8	2.2	3.6	4.6	5.2	5.2
72.5°	1365.6	604.4	13.5	3.4	2.4	1.6	2.0	3.4	4.4	5.0	5.2
75°	649.2	218.8	11.5	2.6	2.2	1.4	1.8	3.4	4.4	5.0	5.0
77.5°	132.4	50.8	9.3	2.2	1.8	1.4	1.6	3.2	4.2	4.8	4.8
80°	43.5	19.7	6.9	2.0	1.8	1.4	1.6	3.0	4.2	4.6	4.8
82.5°	31.4	9.9	4.6	2.0	1.8	1.4	1.4	3.0	4.0	4.6	4.6
85°	24.0	6.9	3.0	2.0	1.8	1.4	1.4	2.8	3.8	4.4	4.4
87.5°	15.9	2.8	2.4	2.0	1.8	1.4	1.4	2.8	3.6	4.2	4.4
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)