

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: P192559

Luminaire Tested: **GAN-AF-01-LED-U-5MQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-5MQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6946.7 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 67
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

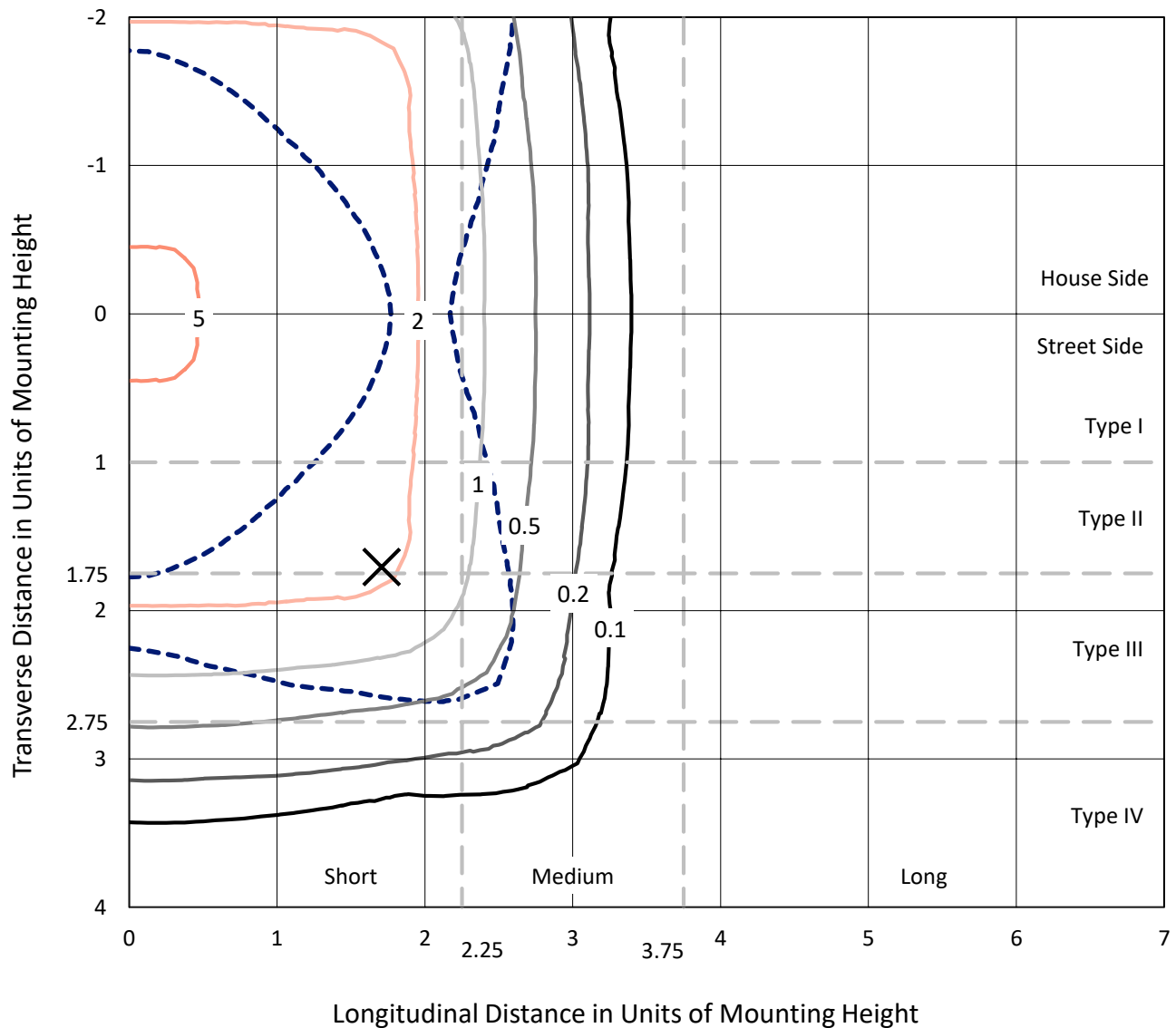


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

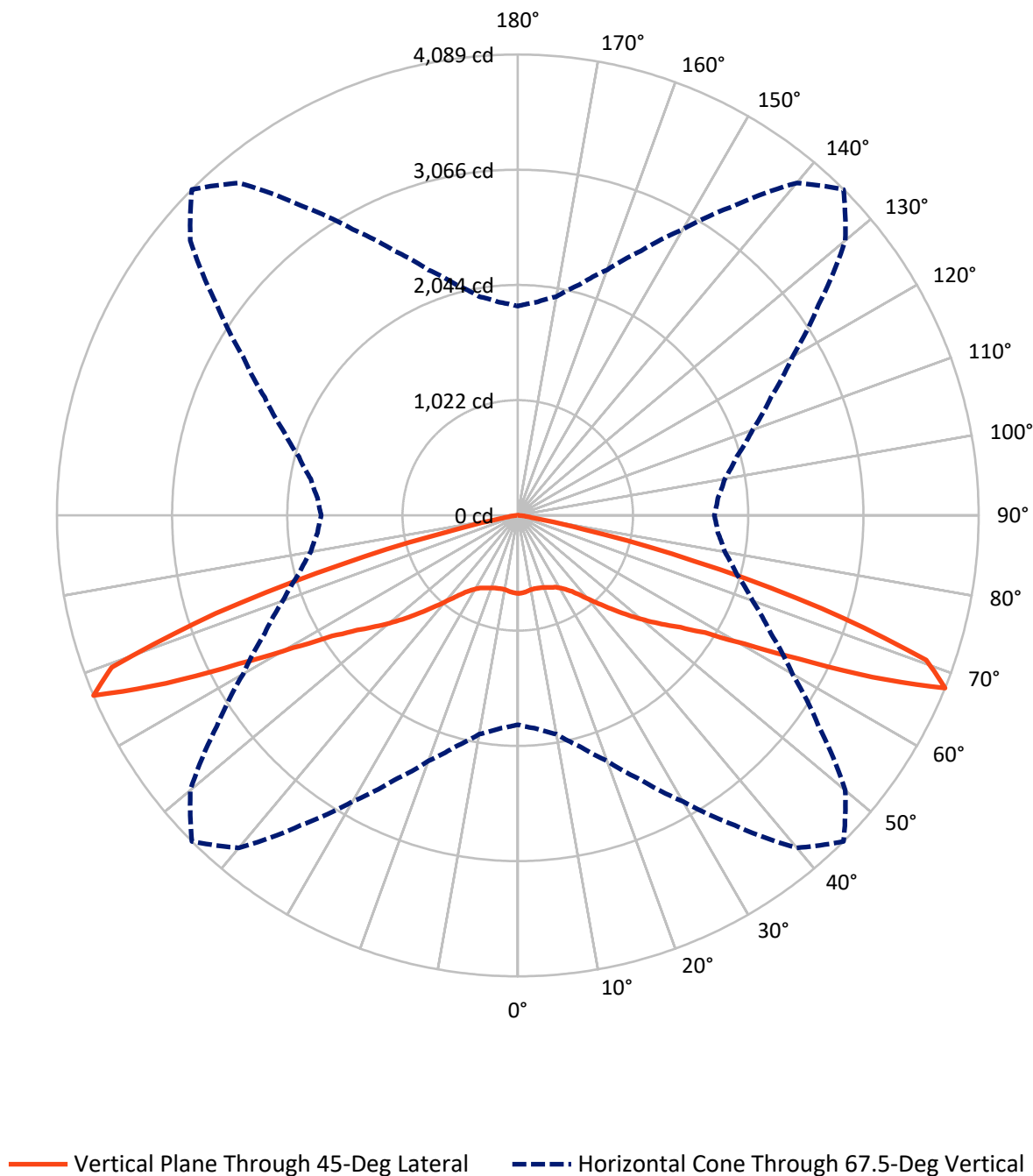


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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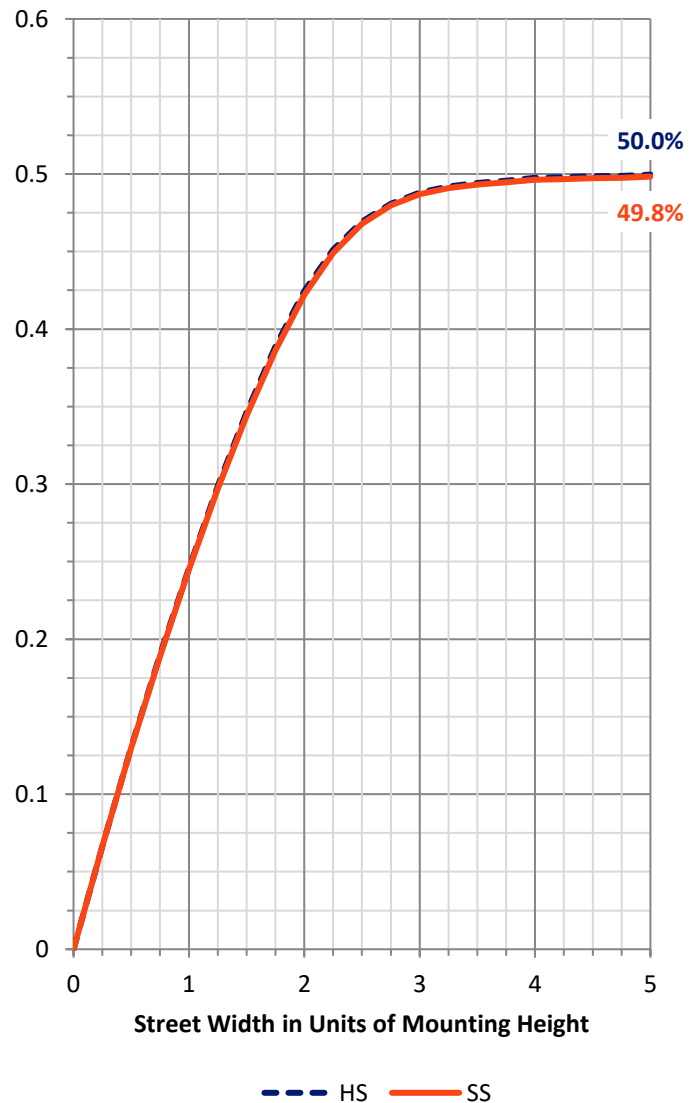
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3473.3	0.0	3473.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3473.3	0.0	3473.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	6946.7	0.0	6946.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	0.9
10°-20°	188.0	2.7
20°-30°	319.6	4.6
30°-40°	522.5	7.5
40°-50°	932.7	13.4
50°-60°	1572.6	22.6
60°-70°	2440.5	35.1
70°-80°	857.5	12.3
80°-90°	48.5	0.7
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°	6946.7	100.0
0°-180°	6946.7	100.0

Coefficient of Utilization



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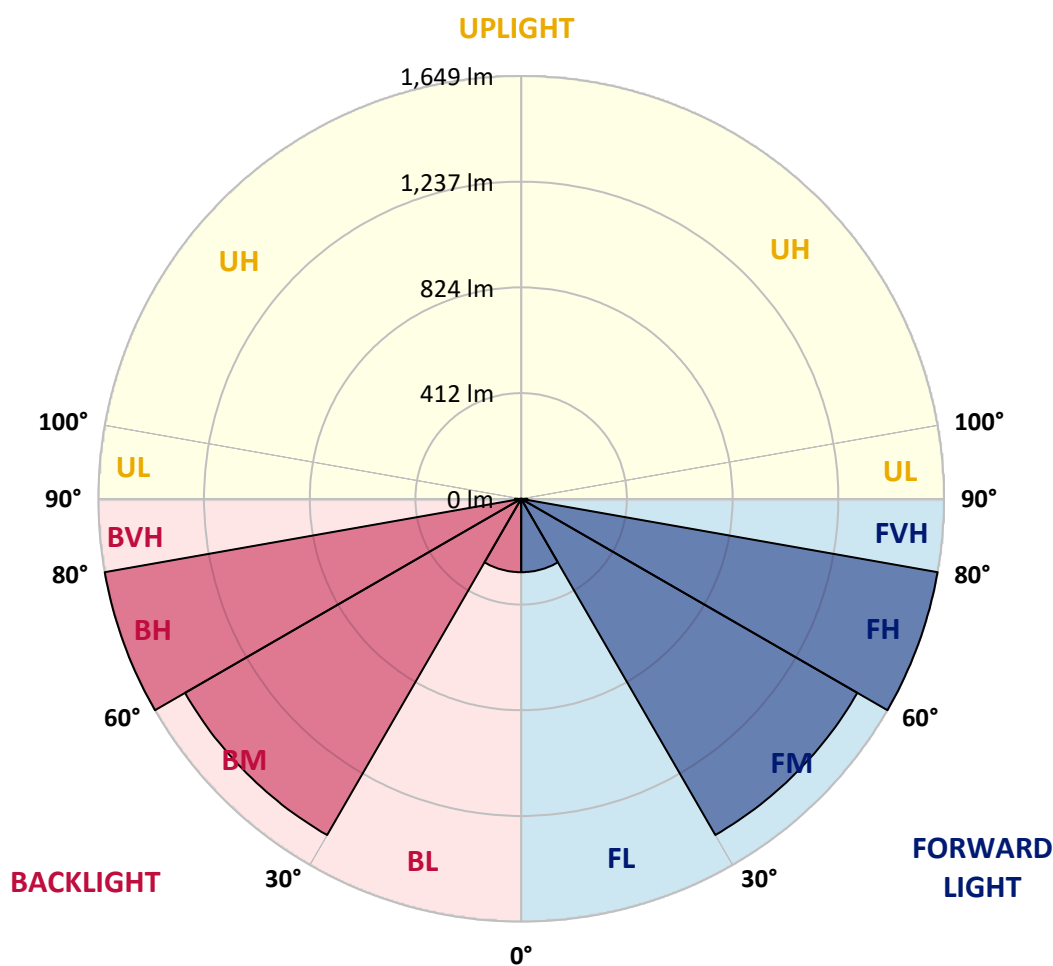
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	286.2	4.1			
FM	(30°-60°)	1513.9	21.8			
FH	(60°-80°)	1649.0	23.7			G1/1800
FVH	(80°-90°)	24.2	0.3			G1/100
BL	(0°-30°)	286.2	4.1	B1/500		
BM	(30°-60°)	1513.9	21.8	B2/2500		
BH	(60°-80°)	1649.0	23.7	B3/2500		G1/1800
BVH	(80°-90°)	24.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2
2.5°	689.8	690.3	690.3	690.3	690.1	690.1	689.4	690.1	689.8	688.8	689.1
5°	684.0	684.6	684.6	684.3	685.3	684.9	684.0	684.6	684.3	683.6	684.0
7.5°	675.7	676.7	676.7	676.4	677.3	677.0	676.4	676.7	676.7	675.7	675.7
10°	666.4	667.0	667.0	666.7	668.3	668.3	668.0	669.0	669.2	668.3	667.7
12.5°	657.7	658.8	658.8	660.0	661.6	662.2	663.9	665.1	666.4	666.1	664.9
15°	652.6	653.3	654.6	656.2	658.8	660.9	663.5	666.4	669.0	669.5	667.7
17.5°	649.4	650.4	652.4	654.6	658.1	661.9	665.7	669.5	673.1	674.3	672.2
20°	648.5	649.1	651.0	654.9	659.7	665.4	670.9	675.3	680.1	681.8	680.1
22.5°	650.4	651.7	653.9	658.4	664.9	672.2	678.5	684.6	690.6	693.6	691.3
25°	659.1	660.4	663.2	669.0	676.0	683.6	690.9	698.0	703.4	706.4	704.7
27.5°	675.0	676.7	680.1	685.9	693.6	701.9	709.8	715.5	720.0	721.0	719.2
30°	698.9	702.5	706.7	713.0	721.9	729.0	737.0	742.1	747.6	747.6	745.9
32.5°	736.4	739.9	744.4	750.4	757.3	765.2	772.1	776.7	782.4	782.7	778.8
35°	792.2	793.9	797.7	801.5	807.9	814.6	820.6	823.6	828.4	828.7	825.1
37.5°	866.1	866.4	868.9	870.2	875.9	883.3	889.1	891.0	895.5	894.9	891.3
40°	951.9	953.7	954.6	956.4	962.6	969.5	975.5	976.6	981.3	980.4	975.9
42.5°	1051.3	1051.9	1057.4	1060.3	1066.1	1069.5	1077.2	1078.2	1084.0	1081.3	1076.3
45°	1162.8	1168.5	1173.7	1179.5	1185.5	1189.7	1195.8	1194.4	1198.2	1194.4	1191.6
47.5°	1280.1	1284.3	1295.7	1304.7	1314.6	1318.1	1326.7	1322.9	1326.7	1321.3	1320.3
50°	1409.1	1416.4	1426.4	1436.6	1447.1	1452.9	1464.1	1459.2	1464.4	1459.2	1456.4
52.5°	1536.3	1538.2	1559.9	1575.0	1589.6	1596.4	1603.1	1600.7	1601.0	1600.7	1597.9
55°	1657.0	1661.5	1683.2	1703.7	1729.2	1748.0	1759.6	1758.3	1755.5	1752.5	1747.7
57.5°	1793.2	1797.7	1822.6	1847.8	1876.8	1903.7	1927.0	1951.0	1960.2	1962.8	1952.3
60°	1977.1	1976.8	2010.1	2040.8	2082.3	2122.2	2173.2	2225.4	2285.0	2312.9	2276.2
62.5°	2164.3	2172.0	2219.9	2274.2	2359.9	2443.2	2537.4	2630.1	2724.7	2801.6	2719.9
65°	2142.0	2171.4	2242.6	2365.6	2523.8	2711.6	2914.7	3129.7	3324.0	3457.5	3307.8
67.5°	1856.5	1898.3	1970.7	2120.2	2318.1	2588.9	2930.2	3355.3	3849.5	4088.5	3792.3
70°	1345.5	1392.8	1468.9	1614.9	1810.7	2068.2	2438.7	2949.2	3603.5	3844.4	3518.2
72.5°	669.5	695.1	742.1	835.1	983.4	1192.2	1528.3	2019.0	2597.8	2818.9	2520.8
75°	227.5	239.3	247.3	277.6	324.6	406.7	573.7	882.7	1346.5	1614.2	1327.4
77.5°	131.3	131.6	137.0	142.5	150.4	159.4	181.8	238.6	412.8	586.1	427.1
80°	85.0	84.6	89.1	93.3	98.7	103.1	104.5	110.6	127.5	151.1	135.2
82.5°	44.0	49.5	59.4	64.9	75.1	77.0	74.4	72.2	76.4	79.2	81.2
85°	24.2	21.1	31.5	40.9	45.4	46.0	46.0	43.4	45.1	44.0	48.0
87.5°	11.2	10.3	12.4	20.1	21.5	18.2	19.1	16.9	12.1	11.8	13.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2
2.5°	689.1	689.4	689.4	690.3	690.6	691.3	691.9	692.2
5°	683.6	684.6	684.0	684.9	684.9	685.6	685.6	685.9
7.5°	675.7	676.7	676.7	676.7	676.4	677.3	677.3	677.3
10°	667.3	668.0	667.7	667.0	666.4	667.3	667.0	666.7
12.5°	664.9	663.2	661.9	661.2	660.0	660.4	659.4	659.4
15°	666.4	663.5	661.2	660.4	659.1	658.4	657.7	658.1
17.5°	670.6	667.0	664.2	662.5	660.9	660.0	658.8	659.1
20°	677.9	673.7	669.5	666.4	663.5	661.9	660.9	660.7
22.5°	688.8	682.7	676.7	671.8	668.0	665.7	664.9	664.2
25°	701.2	694.5	687.5	682.0	678.2	675.3	673.5	673.5
27.5°	716.8	711.4	705.0	698.6	695.1	692.2	690.9	690.3
30°	743.1	737.9	732.8	726.8	722.3	719.5	717.2	715.3
32.5°	776.7	772.5	768.3	763.8	759.7	755.8	752.4	750.7
35°	824.0	820.6	817.8	812.7	811.1	808.8	807.0	805.4
37.5°	889.1	887.7	887.7	882.4	881.0	880.1	878.2	878.6
40°	974.7	975.9	974.4	972.4	971.5	968.9	968.9	971.2
42.5°	1075.9	1076.9	1080.5	1077.2	1080.7	1077.6	1075.6	1077.2
45°	1193.5	1197.1	1204.0	1200.9	1203.1	1197.7	1190.9	1191.3
47.5°	1325.5	1328.6	1331.6	1329.2	1329.5	1320.6	1311.6	1309.5
50°	1462.4	1463.7	1465.3	1462.2	1462.8	1452.9	1442.7	1443.0
52.5°	1597.9	1604.0	1610.4	1601.7	1599.9	1588.6	1574.3	1568.5
55°	1752.8	1761.5	1754.1	1739.2	1724.1	1709.2	1690.2	1687.1
57.5°	1943.9	1929.2	1906.2	1877.7	1857.0	1835.9	1816.8	1808.8
60°	2209.7	2154.5	2112.8	2070.7	2044.2	2018.3	1993.1	1989.3
62.5°	2585.4	2489.9	2407.1	2319.9	2248.7	2193.1	2148.7	2136.2
65°	3056.3	2830.4	2634.6	2451.9	2293.2	2173.2	2097.9	2064.7
67.5°	3258.7	2812.9	2477.1	2217.6	2010.1	1865.0	1783.5	1743.0
70°	2863.6	2332.6	1967.5	1707.8	1518.7	1364.1	1290.3	1246.8
72.5°	1970.1	1483.8	1173.3	957.7	806.7	677.3	626.2	622.3
75°	884.6	585.8	403.8	311.2	262.0	227.8	217.2	209.2
77.5°	247.6	183.0	163.3	152.8	142.5	130.7	126.2	127.2
80°	120.4	113.7	109.3	102.6	93.3	83.4	78.8	80.9
82.5°	79.9	78.8	81.8	77.0	63.6	54.0	45.4	41.5
85°	48.5	49.1	50.1	50.5	42.8	30.0	20.4	23.1
87.5°	19.1	22.1	23.9	24.9	23.3	14.4	11.5	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)