

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: P269850

Luminaire Tested: **GAP-AF-02-LED-U-5WQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-5WQ-7027-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7489.6 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 66
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

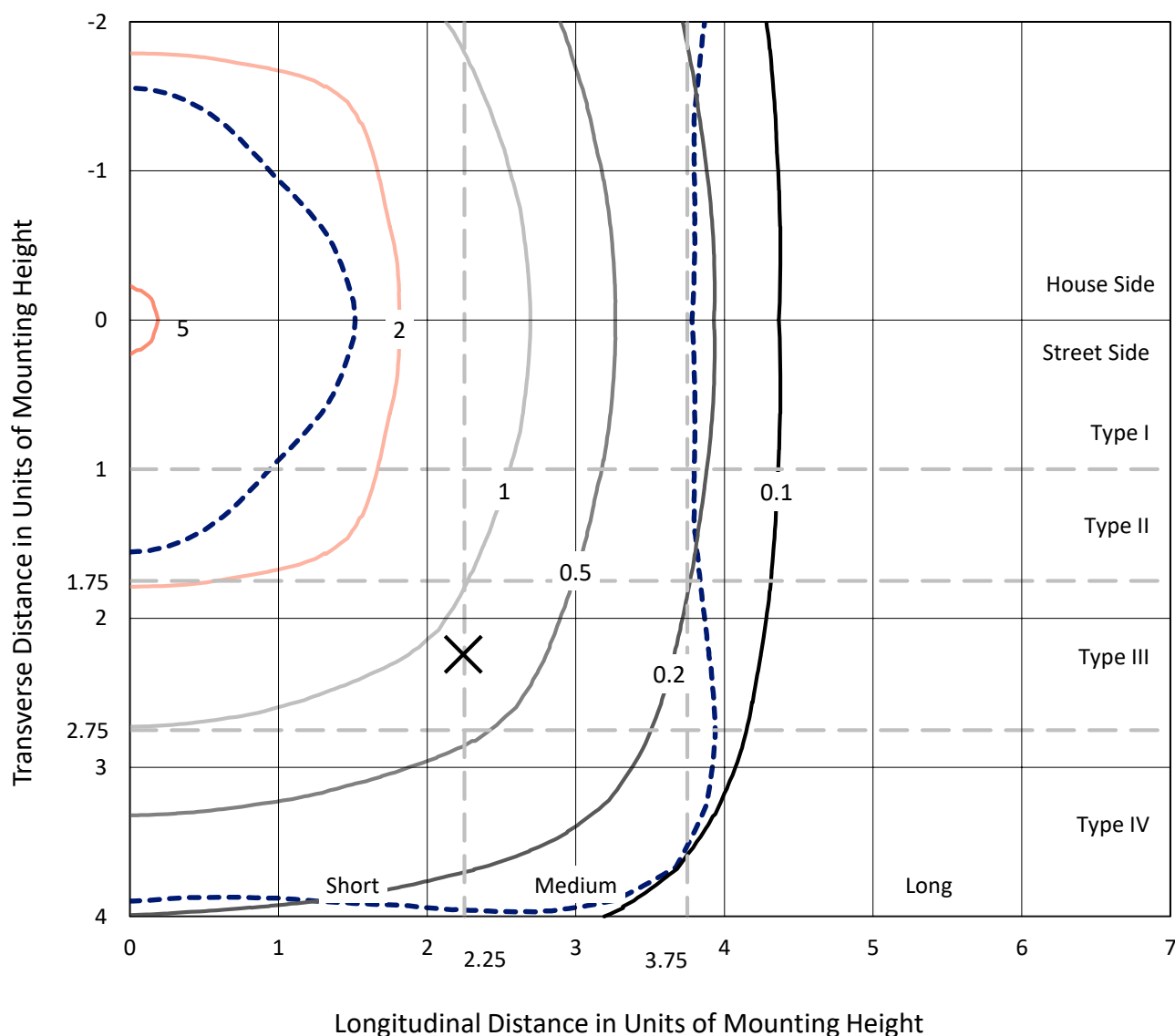


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

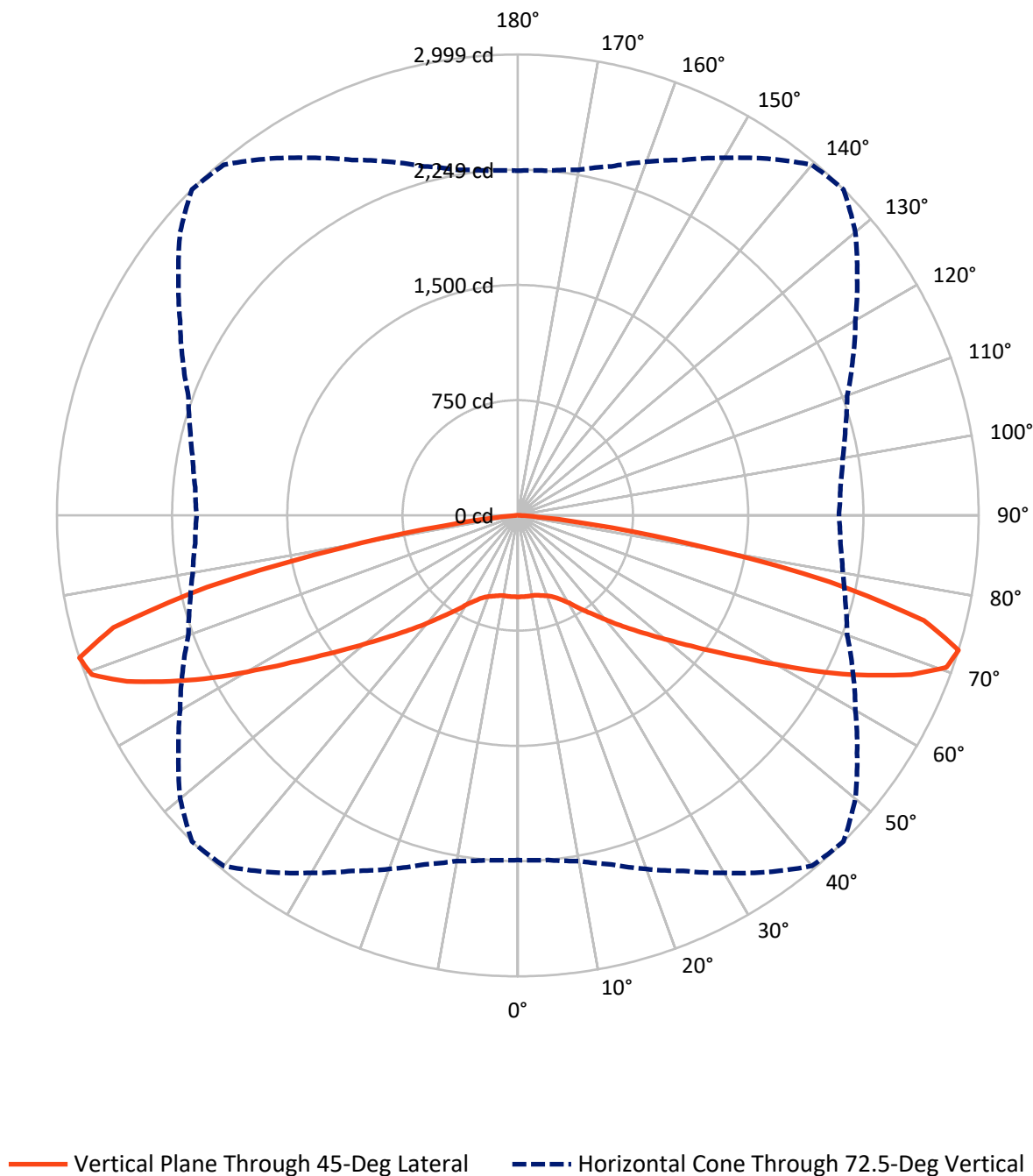


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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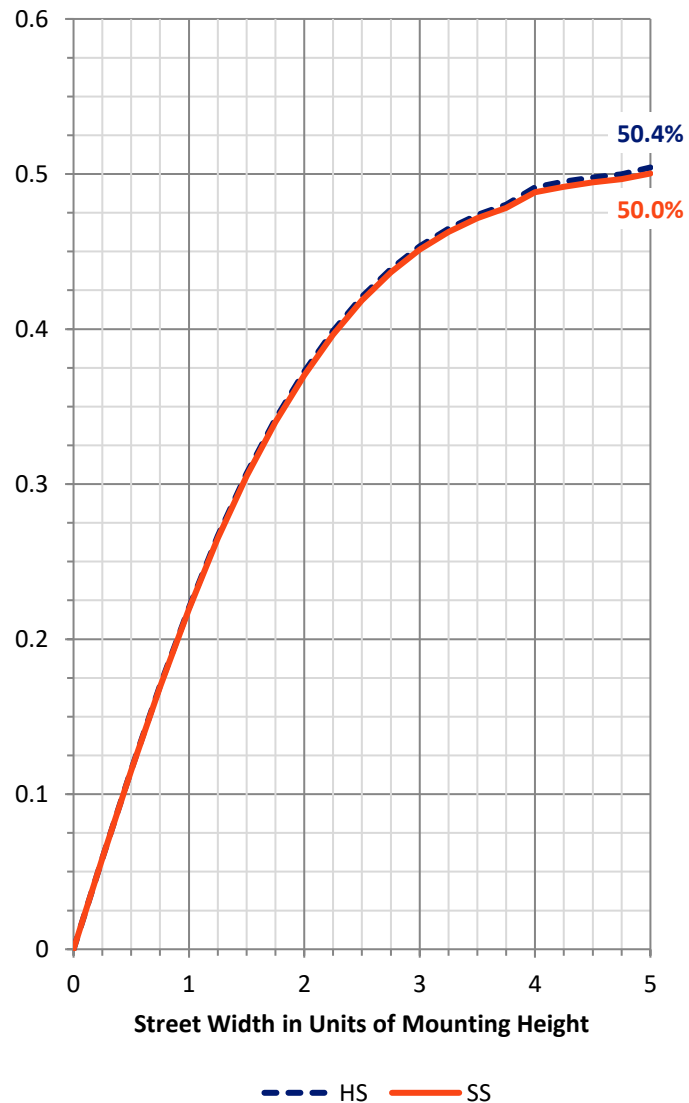
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3744.8	0.0	3744.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3744.8	0.0	3744.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	7489.6	0.0	7489.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	0.7
10°-20°	153.8	2.1
20°-30°	281.1	3.8
30°-40°	484.6	6.5
40°-50°	828.5	11.1
50°-60°	1342.9	17.9
60°-70°	2227.8	29.7
70°-80°	1962.1	26.2
80°-90°	158.2	2.1
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°	7489.6	100.0
0°-180°	7489.6	100.0

Coefficient of Utilization



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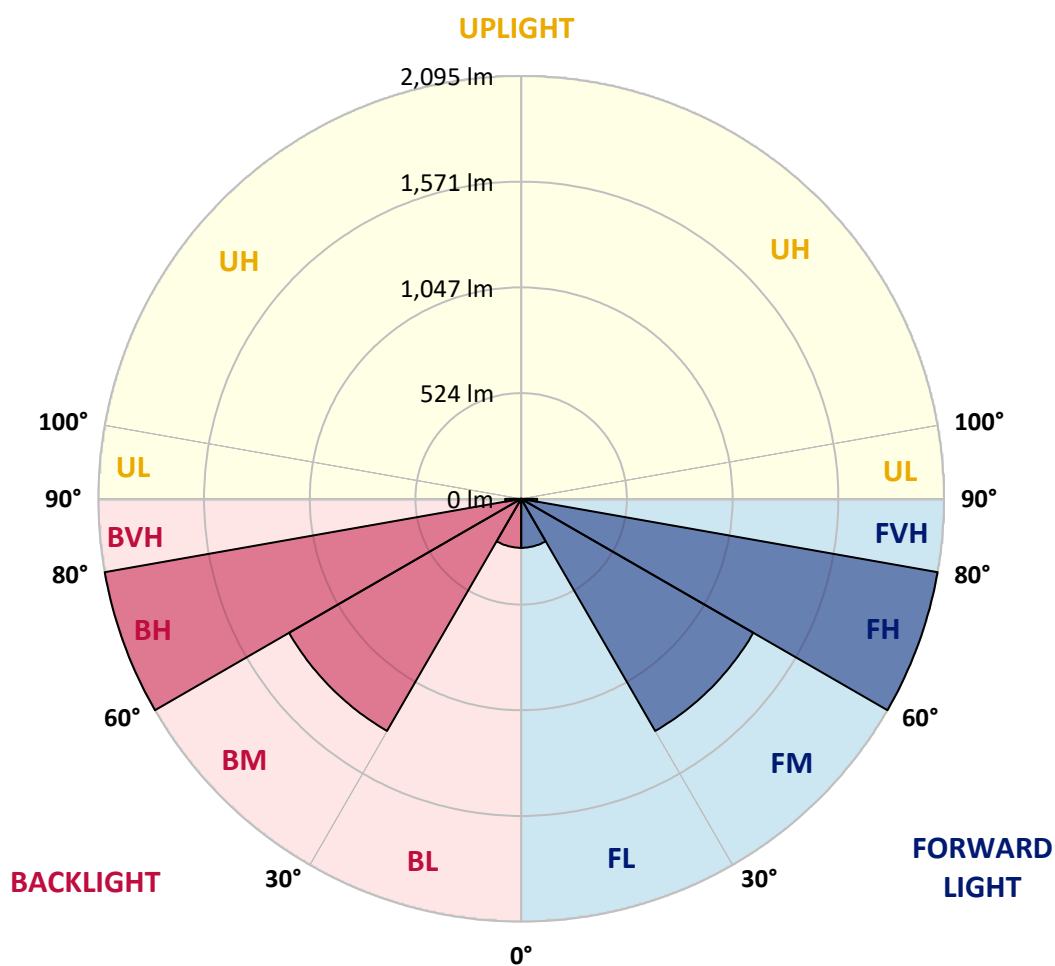
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	242.8	3.2			
FM	(30°-60°)	1328.0	17.7			
FH	(60°-80°)	2095.0	28.0			G2/5000
FVH	(80°-90°)	79.1	1.1			G1/100
BL	(0°-30°)	242.8	3.2	B1/500		
BM	(30°-60°)	1328.0	17.7	B2/2500		
BH	(60°-80°)	2095.0	28.0	B3/2500		G2/5000
BVH	(80°-90°)	79.1	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4
2.5°	530.4	530.7	531.1	530.7	530.7	530.4	530.0	530.4	530.0	529.3	529.7
5°	532.1	532.8	532.8	532.1	532.4	532.1	531.3	531.7	531.1	530.0	530.0
7.5°	534.1	534.5	534.5	533.9	534.1	533.5	532.8	532.4	531.7	530.4	529.3
10°	537.2	537.5	537.2	536.6	536.6	535.5	533.9	533.1	531.7	529.7	528.7
12.5°	540.7	541.0	540.7	540.1	539.6	537.9	536.6	535.5	534.5	532.8	531.1
15°	545.5	546.2	545.5	544.2	543.0	541.7	541.0	541.4	541.7	540.3	538.7
17.5°	554.4	554.8	553.7	550.7	549.3	547.8	547.8	548.5	549.7	549.0	547.2
20°	571.0	569.9	567.5	563.6	562.0	559.6	559.3	559.6	559.6	559.3	557.8
22.5°	591.5	590.8	587.8	582.9	580.6	579.1	577.2	575.4	575.0	573.9	572.6
25°	616.2	615.9	612.1	608.1	606.3	604.6	602.9	600.4	598.5	595.9	594.6
27.5°	647.9	646.5	641.0	639.0	636.4	635.6	633.0	630.3	628.6	625.5	623.9
30°	682.5	682.5	678.1	677.4	677.4	674.9	672.2	667.4	664.3	661.2	660.3
32.5°	717.2	717.6	713.2	714.5	715.5	717.2	717.9	716.2	714.2	713.9	711.7
35°	767.4	766.1	761.6	762.7	762.2	761.9	761.9	765.6	766.3	767.1	762.9
37.5°	829.6	829.6	825.2	825.2	823.0	821.1	818.3	820.6	824.5	825.5	822.7
40°	900.7	903.1	897.5	897.2	897.9	891.4	888.3	892.0	894.5	898.7	895.5
42.5°	984.5	982.7	977.3	976.5	972.9	970.8	968.1	971.1	974.9	977.6	978.7
45°	1064.9	1063.6	1057.3	1057.3	1053.5	1051.8	1053.3	1058.4	1060.1	1063.9	1067.6
47.5°	1144.3	1142.6	1138.4	1140.0	1140.5	1143.5	1148.0	1152.9	1157.6	1162.8	1164.6
50°	1225.3	1225.6	1221.2	1225.3	1230.5	1239.0	1251.1	1259.0	1268.9	1275.5	1277.5
52.5°	1299.2	1300.6	1305.3	1314.9	1325.3	1342.1	1362.6	1382.0	1398.4	1409.4	1408.7
55°	1387.8	1389.9	1401.5	1418.1	1434.9	1460.3	1490.8	1524.9	1552.4	1568.1	1558.2
57.5°	1501.2	1505.6	1518.7	1541.0	1566.0	1599.1	1640.9	1692.1	1734.7	1756.0	1739.8
60°	1656.7	1659.4	1675.2	1700.0	1730.2	1771.2	1827.2	1895.9	1956.0	1984.1	1965.6
62.5°	1861.8	1866.9	1879.8	1904.8	1935.7	1982.1	2050.4	2136.3	2211.2	2250.3	2208.5
65°	2106.7	2123.2	2134.0	2159.3	2188.2	2237.3	2308.7	2400.8	2481.2	2507.0	2458.5
67.5°	2349.2	2363.7	2382.2	2411.5	2440.7	2496.0	2562.2	2651.5	2739.9	2763.2	2688.0
70°	2455.4	2463.7	2492.5	2532.4	2588.3	2653.7	2730.3	2830.6	2939.9	2959.0	2863.5
72.5°	2242.8	2251.1	2283.3	2351.0	2448.6	2552.4	2685.9	2833.3	2977.6	2999.3	2867.7
75°	1696.3	1682.9	1730.7	1820.2	1951.8	2096.5	2283.3	2494.7	2703.1	2730.3	2573.3
77.5°	876.7	874.9	911.1	1022.4	1179.3	1343.9	1549.5	1788.3	1992.4	2074.8	1947.0
80°	246.9	249.6	266.8	322.2	413.8	532.8	693.5	917.2	1084.2	1169.4	1097.9
82.5°	96.8	104.5	110.9	121.2	133.3	150.7	201.3	299.6	401.9	480.2	393.3
85°	34.7	37.1	52.6	62.2	63.2	66.7	75.8	88.7	106.8	127.4	104.7
87.5°	13.0	14.5	16.8	27.8	27.5	25.1	30.5	31.9	24.1	22.0	27.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4
2.5°	529.0	529.3	529.3	529.7	530.0	530.0	530.7	530.7
5°	529.3	529.3	528.7	529.0	528.7	528.7	529.0	529.0
7.5°	528.7	528.4	527.7	527.2	526.5	526.5	526.5	526.5
10°	527.7	527.2	526.5	526.2	525.9	525.9	525.9	525.9
12.5°	530.4	529.3	528.7	528.4	528.4	528.4	528.4	528.4
15°	537.5	535.2	533.5	533.5	533.9	534.5	534.5	535.2
17.5°	546.4	543.7	542.0	540.7	541.4	542.3	543.0	543.7
20°	557.2	555.8	553.4	552.0	552.0	553.4	554.1	554.4
22.5°	572.0	571.0	569.9	568.2	568.2	568.8	570.2	570.2
25°	593.9	593.2	592.5	591.2	590.8	590.8	591.5	592.3
27.5°	621.4	621.7	621.1	620.6	619.7	619.3	620.4	620.0
30°	658.2	659.9	661.6	660.3	658.5	657.5	656.4	655.0
32.5°	708.0	705.9	704.5	702.1	699.1	696.2	694.2	691.9
35°	755.0	751.6	750.3	752.3	751.9	750.3	747.7	745.8
37.5°	812.7	812.1	812.7	816.5	815.8	817.5	812.7	812.3
40°	885.5	886.3	891.1	895.5	897.9	900.3	897.5	894.8
42.5°	970.1	969.7	971.4	977.6	981.8	984.5	978.7	978.0
45°	1059.5	1056.9	1058.4	1063.6	1067.6	1070.7	1064.2	1064.2
47.5°	1157.6	1153.6	1149.0	1155.0	1157.2	1159.4	1154.2	1152.4
50°	1267.1	1258.6	1249.1	1251.3	1251.3	1250.7	1244.2	1243.9
52.5°	1392.9	1377.1	1359.7	1353.0	1349.3	1345.2	1333.9	1328.4
55°	1537.5	1513.9	1486.3	1469.5	1460.6	1449.2	1430.5	1425.3
57.5°	1706.6	1669.5	1622.1	1601.5	1581.6	1563.1	1542.0	1536.2
60°	1906.8	1852.2	1789.3	1751.2	1729.5	1711.7	1690.2	1689.1
62.5°	2130.2	2044.0	1972.8	1938.5	1922.6	1906.8	1886.3	1889.0
65°	2357.2	2267.2	2200.6	2172.7	2158.0	2145.0	2124.3	2127.4
67.5°	2581.2	2498.4	2425.2	2396.7	2380.1	2363.7	2345.1	2348.3
70°	2741.9	2639.2	2556.8	2493.5	2454.1	2409.4	2380.6	2373.3
72.5°	2696.0	2537.5	2406.6	2281.2	2207.8	2147.9	2107.5	2089.9
75°	2333.2	2116.8	1948.5	1794.5	1707.9	1637.5	1586.3	1554.3
77.5°	1732.7	1489.5	1290.5	1113.3	973.1	879.0	812.7	769.8
80°	948.4	721.3	527.2	370.6	272.4	226.4	200.0	187.1
82.5°	295.5	190.6	140.4	121.2	112.6	107.8	99.9	87.2
85°	94.1	82.5	76.5	73.1	69.7	60.7	42.0	38.1
87.5°	36.4	37.4	37.1	35.0	35.8	25.7	20.7	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)