

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: P269847

Luminaire Tested: **GAP-AF-02-LED-U-5NQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-5NQ-7027-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8994.3 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 86
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

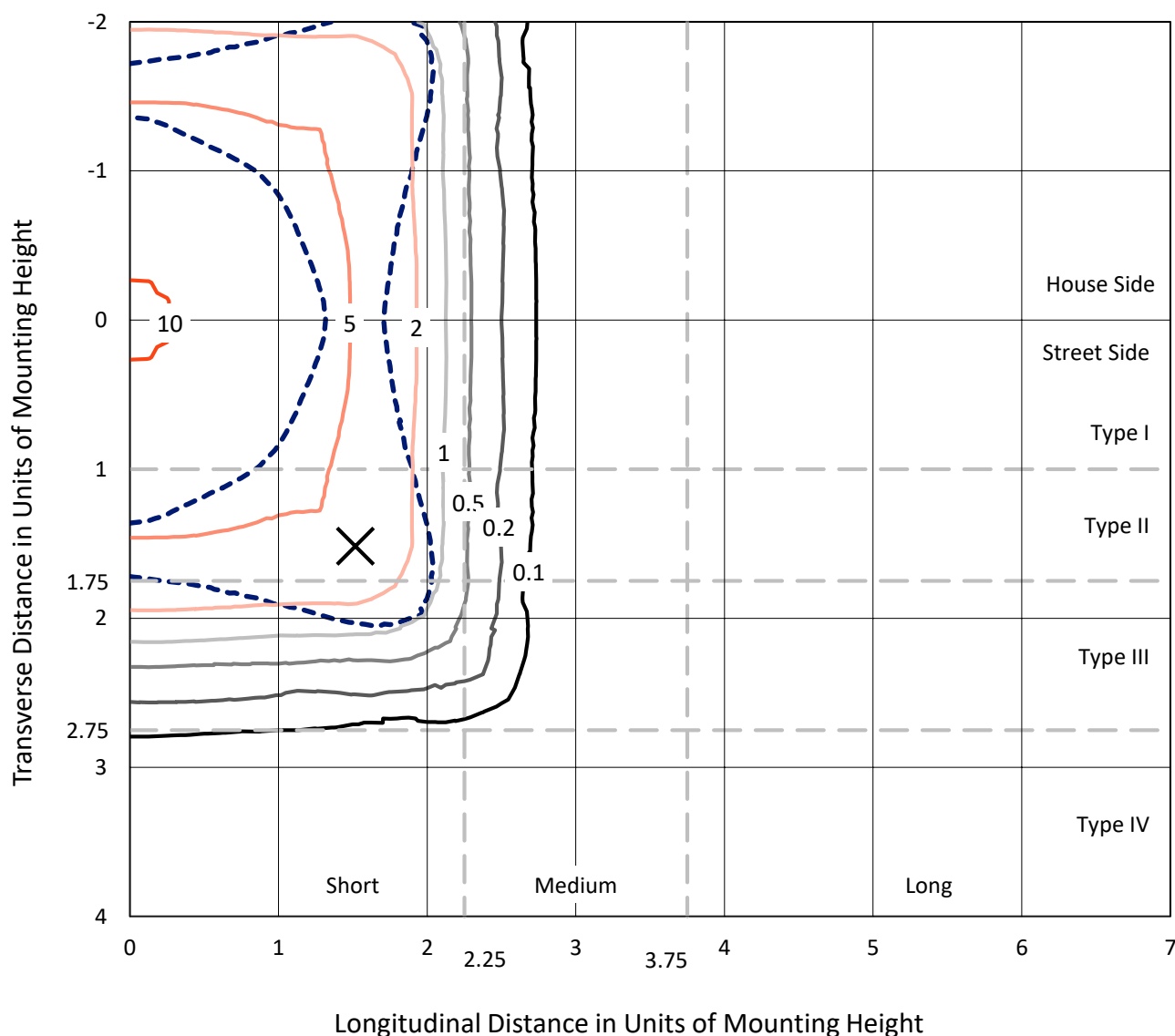


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

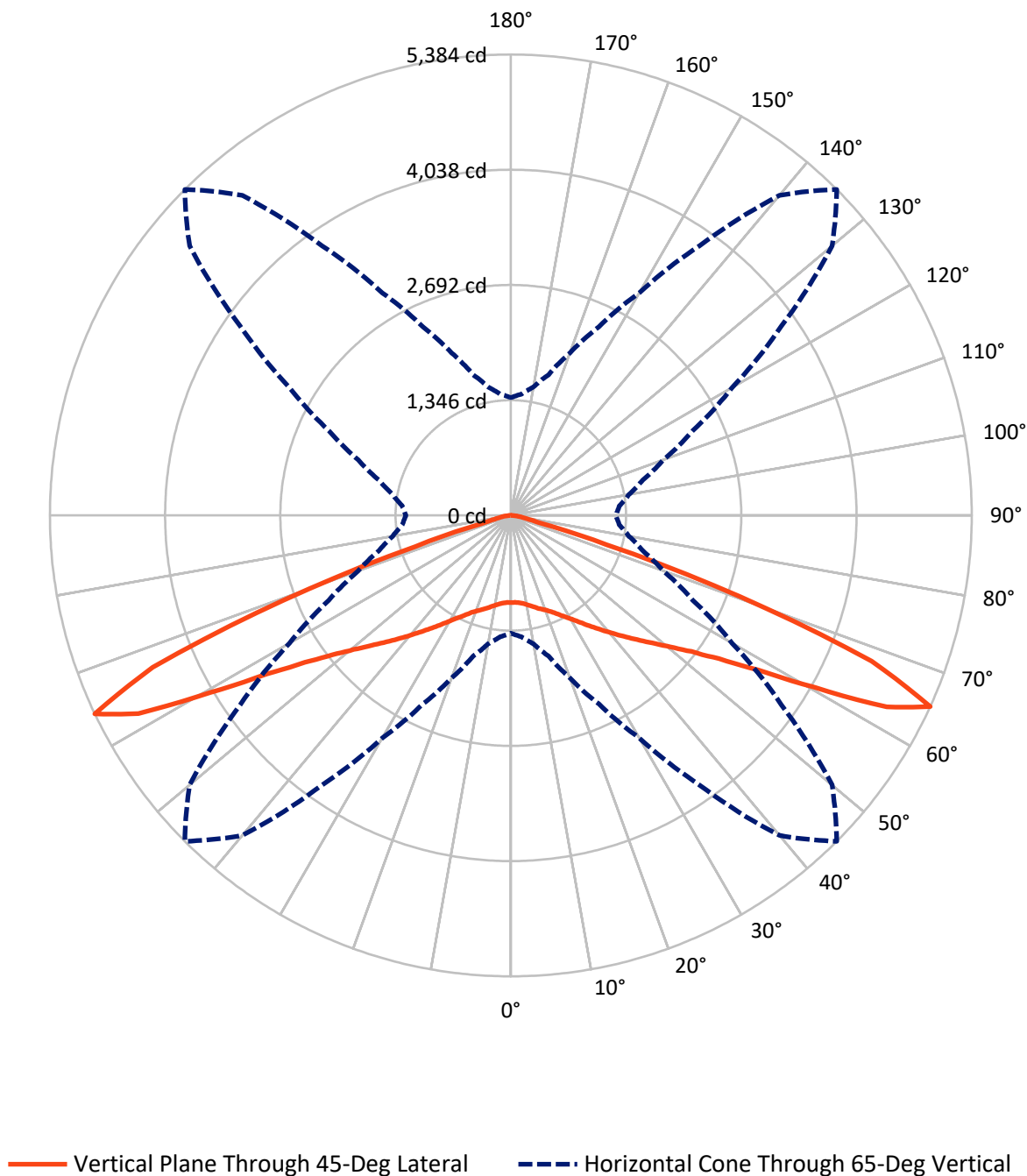


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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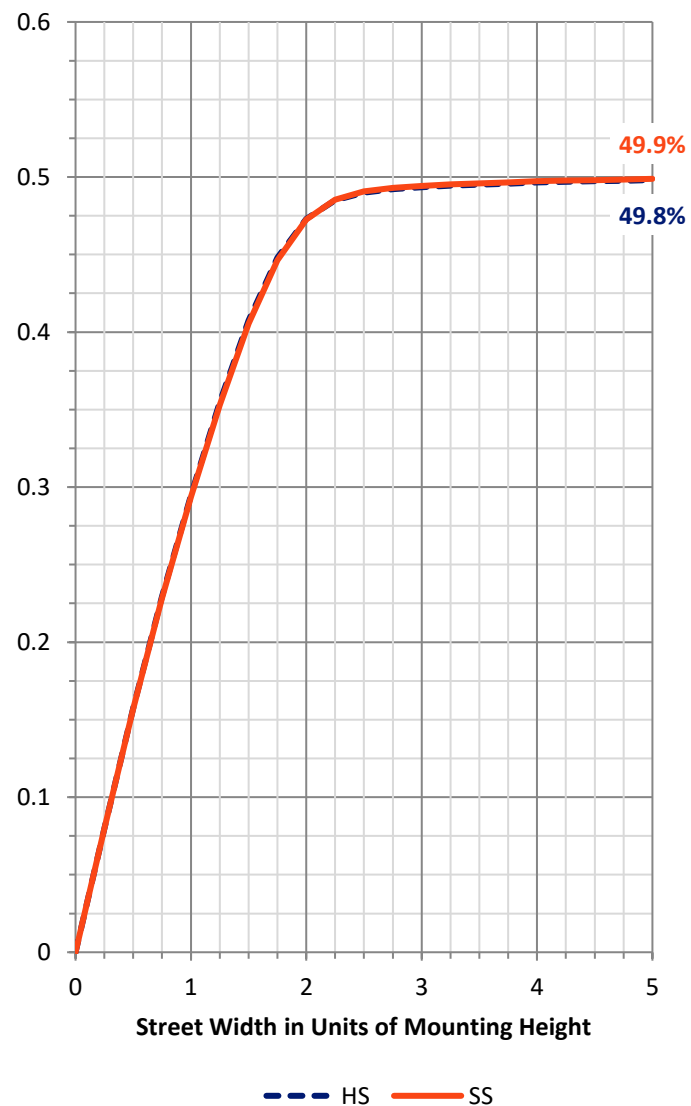
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4497.1	0.0	4497.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4497.1	0.0	4497.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	8994.3	0.0	8994.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	1.1
10°-20°	318.1	3.5
20°-30°	594.8	6.6
30°-40°	1006.0	11.2
40°-50°	1645.0	18.3
50°-60°	2615.8	29.1
60°-70°	2364.5	26.3
70°-80°	299.3	3.3
80°-90°	51.5	0.6
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°	8994.3	100.0
0°-180°	8994.3	100.0

Coefficient of Utilization



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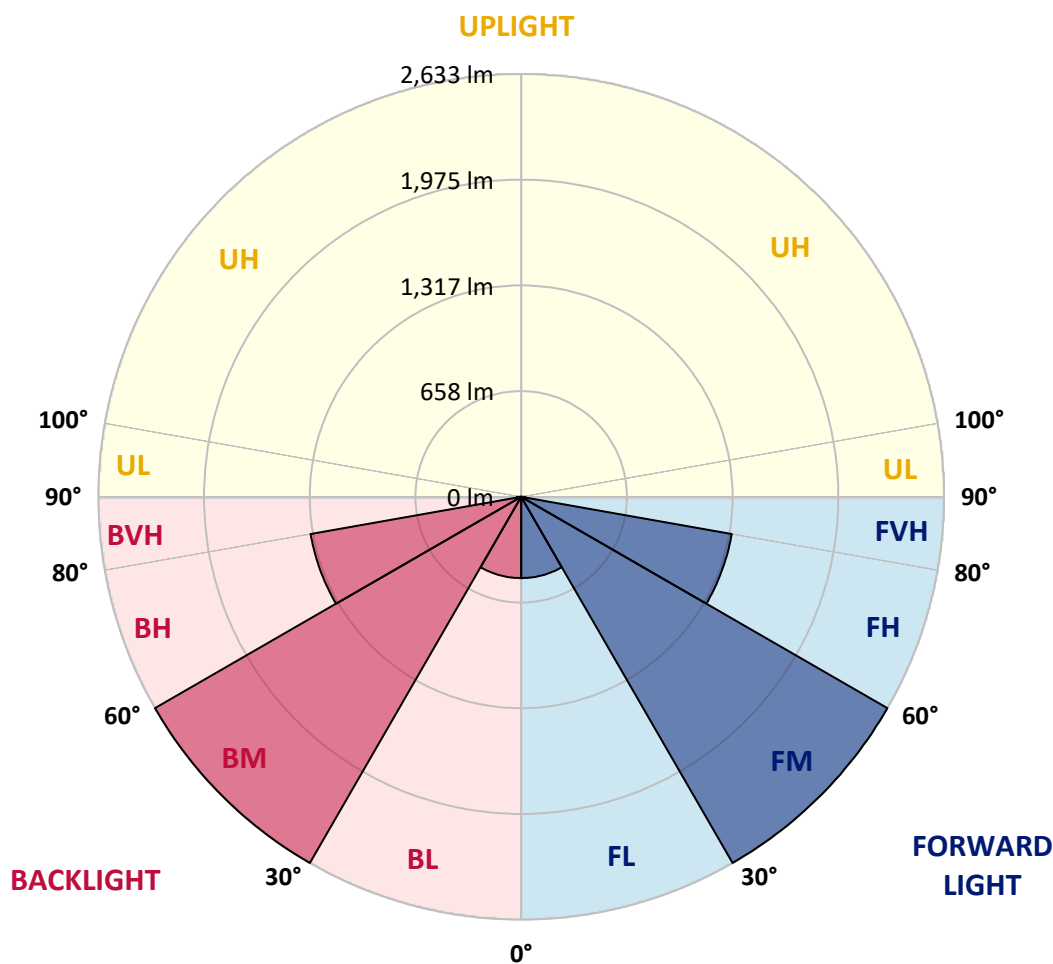
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.1	5.6			
FM	(30°-60°)	2633.4	29.3			
FH	(60°-80°)	1331.9	14.8			G1/1800
FVH	(80°-90°)	25.7	0.3			G1/100
BL	(0°-30°)	506.1	5.6	B2/1000		
BM	(30°-60°)	2633.4	29.3	B3/5000		
BH	(60°-80°)	1331.9	14.8	B3/2500		G1/1800
BVH	(80°-90°)	25.7	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°	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7
2.5°	1018.6	1019.3	1020.3	1019.3	1020.3	1018.9	1018.0	1019.3	1018.0	1016.9	1017.7
5°	1027.4	1027.8	1027.8	1026.6	1027.8	1027.0	1025.8	1027.4	1026.1	1024.8	1025.8
7.5°	1042.2	1043.8	1042.6	1041.2	1042.2	1041.2	1040.4	1040.9	1040.4	1039.2	1039.6
10°	1061.9	1063.2	1062.3	1061.9	1062.8	1062.3	1061.4	1061.1	1061.4	1060.3	1060.3
12.5°	1086.0	1085.5	1085.2	1085.5	1086.8	1086.8	1086.4	1086.8	1087.7	1088.0	1087.2
15°	1109.5	1110.3	1110.3	1110.3	1112.9	1115.1	1116.2	1117.1	1118.7	1119.2	1117.5
17.5°	1139.1	1139.1	1138.6	1139.1	1141.6	1144.9	1146.1	1147.9	1149.6	1150.8	1148.8
20°	1171.8	1172.7	1172.7	1173.5	1176.9	1180.7	1180.7	1181.6	1180.7	1181.6	1180.4
22.5°	1212.0	1214.4	1214.4	1214.9	1218.2	1222.9	1221.5	1222.9	1220.7	1222.5	1220.7
25°	1264.2	1267.9	1267.1	1267.1	1269.7	1272.5	1273.0	1275.6	1275.1	1277.2	1276.0
27.5°	1323.2	1329.0	1330.7	1330.3	1331.9	1334.9	1335.7	1338.7	1336.9	1338.7	1337.8
30°	1393.9	1396.3	1399.7	1401.0	1403.2	1406.0	1406.0	1406.4	1404.4	1406.9	1408.3
32.5°	1467.2	1471.9	1475.1	1482.7	1486.5	1488.6	1488.2	1489.1	1487.0	1490.4	1492.9
35°	1564.0	1567.5	1572.9	1578.9	1583.8	1583.4	1582.2	1582.5	1582.5	1585.6	1588.1
37.5°	1680.6	1681.5	1688.8	1697.2	1699.8	1697.2	1689.6	1687.8	1684.1	1687.8	1692.0
40°	1804.2	1807.1	1821.5	1827.0	1828.2	1823.5	1812.6	1806.2	1797.9	1802.4	1808.4
42.5°	1933.5	1939.4	1952.5	1962.1	1966.3	1963.3	1948.2	1938.5	1927.7	1930.1	1935.9
45°	2076.7	2083.9	2102.5	2111.6	2119.7	2115.0	2100.2	2085.5	2068.3	2069.5	2078.8
47.5°	2236.8	2244.0	2268.0	2283.5	2287.8	2286.8	2270.5	2250.3	2226.7	2225.8	2233.8
50°	2416.3	2423.4	2453.4	2477.3	2489.6	2488.2	2468.9	2440.2	2411.6	2411.9	2422.1
52.5°	2591.4	2600.4	2631.4	2672.7	2696.7	2714.0	2702.2	2675.3	2640.3	2641.1	2650.4
55°	2755.7	2770.6	2806.2	2862.3	2906.9	2955.5	2969.3	2968.4	2947.3	2953.3	2962.6
57.5°	2835.3	2857.2	2912.5	3000.9	3091.8	3190.4	3273.9	3336.1	3362.7	3402.8	3393.4
60°	2684.6	2719.4	2800.8	2931.0	3110.8	3316.5	3536.6	3752.0	3935.7	4074.3	3994.7
62.5°	2198.1	2243.4	2342.2	2508.8	2781.1	3110.0	3531.6	4040.4	4594.9	4929.3	4690.5
65°	1375.3	1422.6	1522.7	1701.4	2019.7	2428.8	3000.9	3844.1	4880.0	5384.3	4898.2
67.5°	536.3	561.9	616.2	730.4	969.7	1333.7	1907.8	2864.9	4103.6	4545.6	4027.5
70°	268.8	271.3	281.3	302.5	353.8	459.6	699.2	1328.1	2353.5	2842.4	2268.8
72.5°	194.3	194.7	199.7	208.9	225.4	248.9	294.5	406.6	765.4	1169.8	717.3
75°	148.7	150.3	153.3	158.5	167.3	179.0	195.4	234.2	290.2	336.5	283.1
77.5°	114.5	117.9	120.1	124.7	130.2	138.2	142.8	157.6	183.3	193.0	190.0
80°	87.1	90.1	94.9	98.5	102.3	106.2	104.5	111.2	124.7	132.7	128.5
82.5°	55.7	59.0	72.5	75.8	77.6	79.9	77.1	77.6	83.5	88.5	83.5
85°	35.8	37.9	46.0	50.1	50.6	52.2	50.9	48.0	48.0	43.7	49.2
87.5°	16.3	16.9	20.7	24.4	25.3	22.7	22.3	21.5	17.2	16.3	17.6
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°	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7
2.5°	1017.3	1018.0	1018.6	1019.8	1020.3	1020.3	1020.7	1021.6
5°	1025.2	1026.6	1027.0	1028.6	1029.1	1028.6	1029.5	1029.9
7.5°	1039.6	1041.8	1042.6	1044.3	1043.0	1044.6	1045.1	1045.1
10°	1060.7	1062.8	1063.2	1064.9	1064.0	1064.9	1064.9	1064.0
12.5°	1088.4	1088.8	1087.7	1088.8	1087.2	1088.0	1086.8	1086.0
15°	1119.2	1118.0	1115.1	1115.1	1112.6	1112.9	1112.6	1112.0
17.5°	1149.1	1146.5	1144.5	1143.6	1141.6	1141.1	1139.9	1139.9
20°	1182.0	1180.7	1179.5	1177.8	1175.7	1173.5	1173.1	1173.9
22.5°	1221.5	1221.2	1221.2	1220.3	1217.4	1215.2	1214.0	1214.0
25°	1274.7	1270.9	1270.9	1270.5	1269.1	1267.9	1265.4	1266.7
27.5°	1334.5	1332.4	1334.1	1333.7	1332.4	1332.4	1330.7	1330.7
30°	1408.3	1407.4	1409.9	1407.7	1403.5	1403.2	1401.4	1399.4
32.5°	1493.3	1492.4	1496.2	1493.7	1487.0	1483.2	1479.8	1478.2
35°	1588.1	1588.6	1593.1	1591.4	1583.8	1581.3	1575.4	1574.5
37.5°	1691.7	1698.4	1706.4	1708.0	1701.7	1700.1	1693.8	1690.4
40°	1813.4	1822.3	1834.5	1837.5	1830.7	1829.5	1820.5	1816.0
42.5°	1943.2	1958.3	1973.4	1976.0	1969.3	1962.5	1954.2	1950.8
45°	2088.1	2106.2	2126.0	2131.0	2120.9	2113.0	2101.9	2101.9
47.5°	2250.7	2273.4	2295.8	2309.6	2300.4	2291.9	2278.9	2270.5
50°	2442.8	2473.9	2502.9	2517.3	2502.6	2486.6	2463.8	2456.2
52.5°	2683.6	2717.5	2742.6	2735.1	2712.3	2690.1	2665.2	2655.1
55°	2991.1	3002.6	3002.6	2973.8	2928.5	2890.9	2851.8	2838.7
57.5°	3375.8	3332.1	3264.6	3179.1	3071.7	2978.2	2915.0	2885.0
60°	3827.8	3617.1	3379.2	3145.3	2953.3	2794.8	2700.9	2658.1
62.5°	4129.0	3577.9	3101.2	2725.8	2449.5	2258.7	2129.0	2078.4
65°	3858.9	2984.0	2345.5	1896.4	1595.2	1401.0	1272.5	1225.4
67.5°	2826.4	1869.9	1249.0	895.2	655.9	523.2	470.5	448.7
70°	1268.8	658.4	403.6	315.0	271.6	249.4	239.7	236.3
72.5°	382.5	276.8	233.4	210.7	193.3	182.4	174.5	173.6
75°	230.9	192.1	170.6	157.2	146.2	137.4	133.0	131.8
77.5°	161.3	141.2	131.1	121.4	112.8	106.2	102.3	99.4
80°	113.4	103.7	99.1	93.6	88.0	81.7	76.3	73.8
82.5°	75.8	73.8	73.8	70.3	65.8	59.7	48.9	46.4
85°	48.9	48.5	49.2	48.0	44.6	38.4	31.6	30.0
87.5°	22.7	23.1	25.7	25.3	24.4	20.2	16.0	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)