

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: P199906

Luminaire Tested: **GAP-AF-02-LED-U-5MQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199906
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: GAP-AF-02-LED-U-5MQ-7030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13845.3 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 129
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



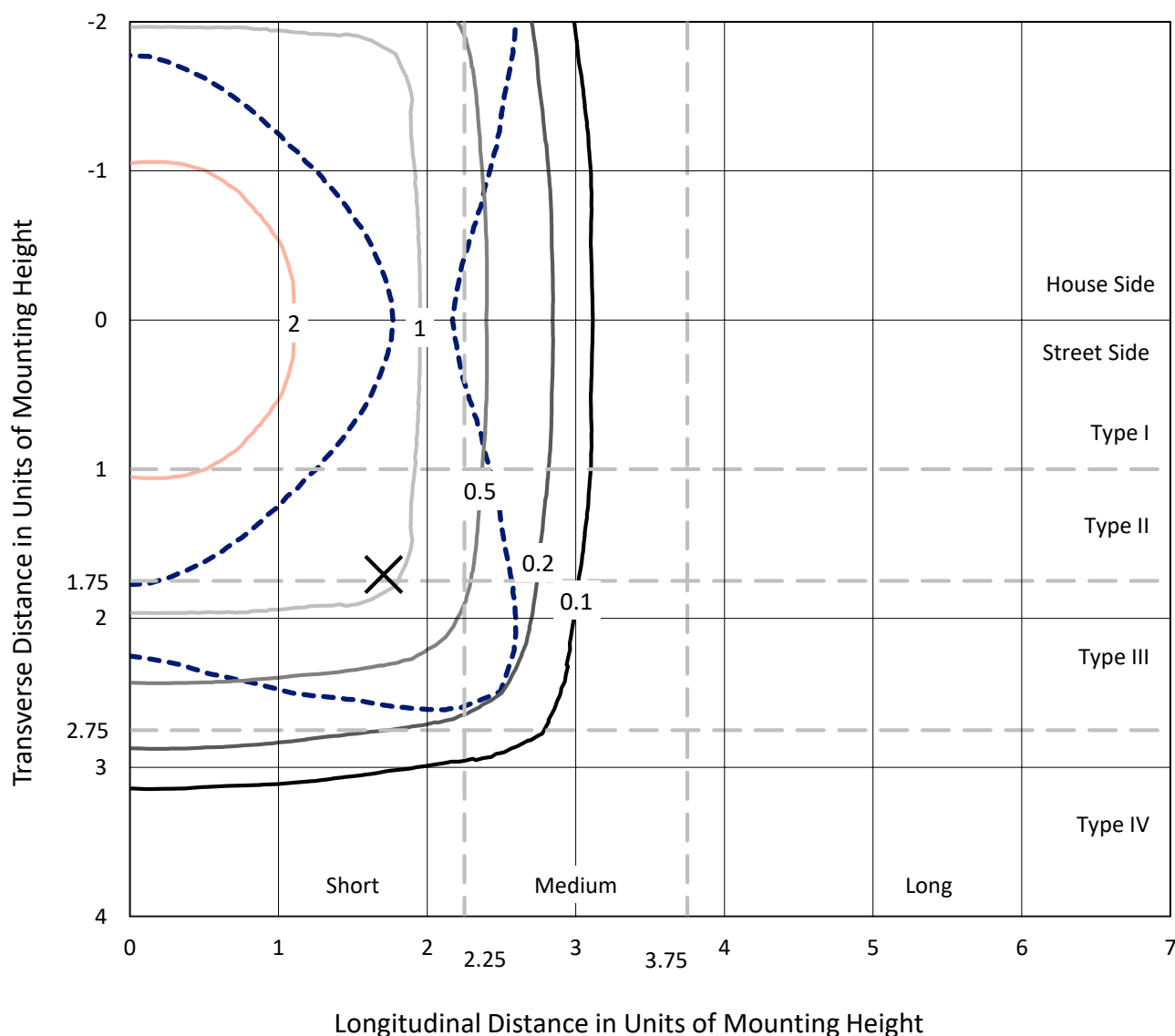
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

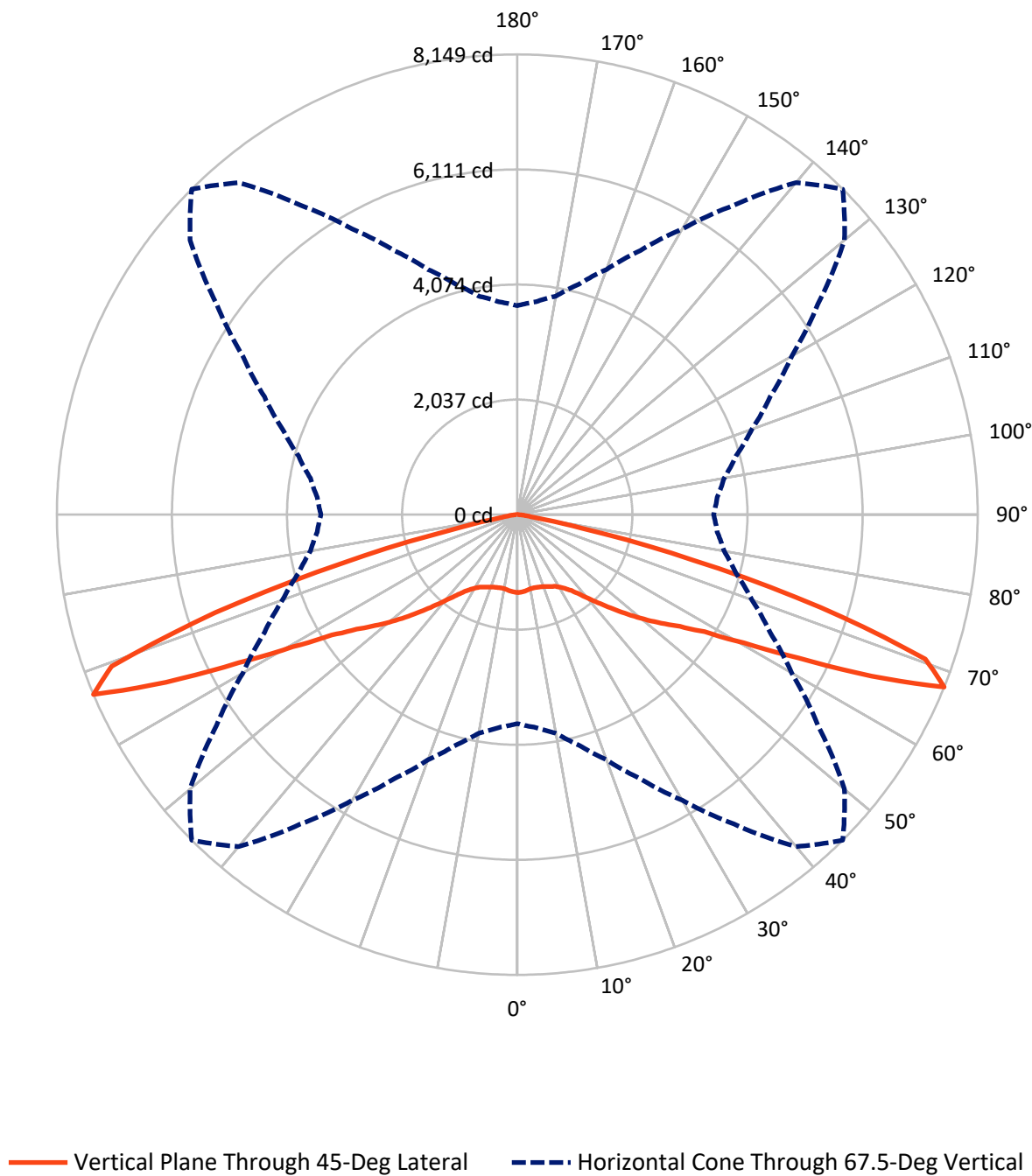


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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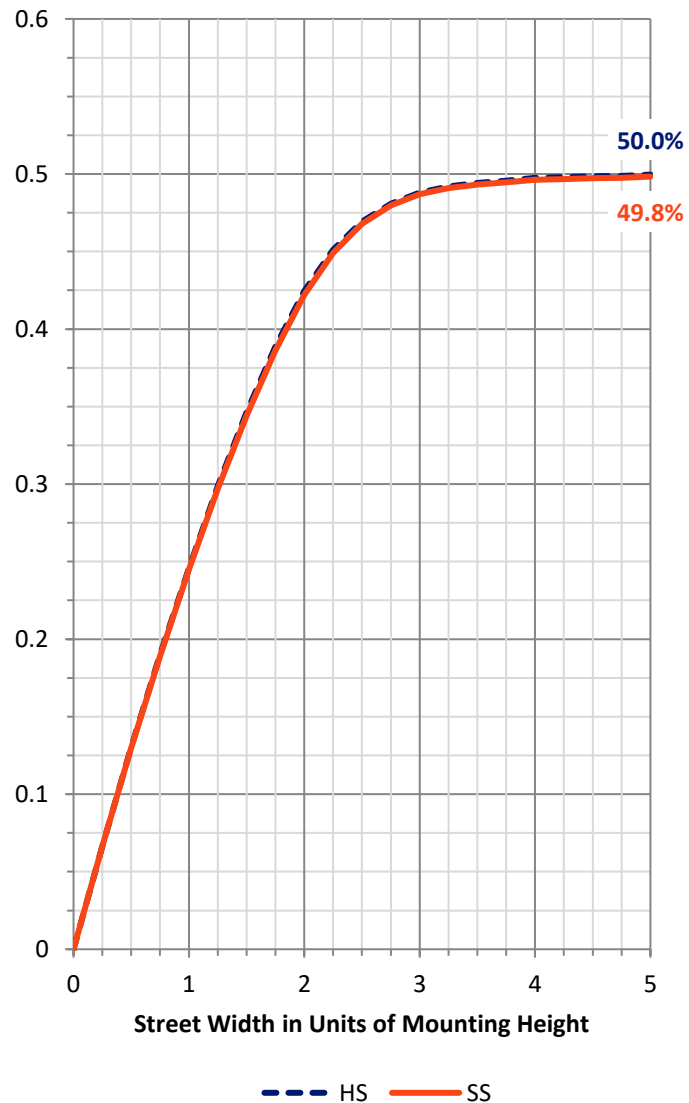
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6922.7	0.0	6922.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6922.7	0.0	6922.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	13845.3	0.0	13845.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	0.9
10°-20°	374.7	2.7
20°-30°	637.0	4.6
30°-40°	1041.4	7.5
40°-50°	1859.0	13.4
50°-60°	3134.4	22.6
60°-70°	4864.1	35.1
70°-80°	1709.0	12.3
80°-90°	96.6	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°	13845.3	100.0
0°-180°	13845.3	100.0

Coefficient of Utilization



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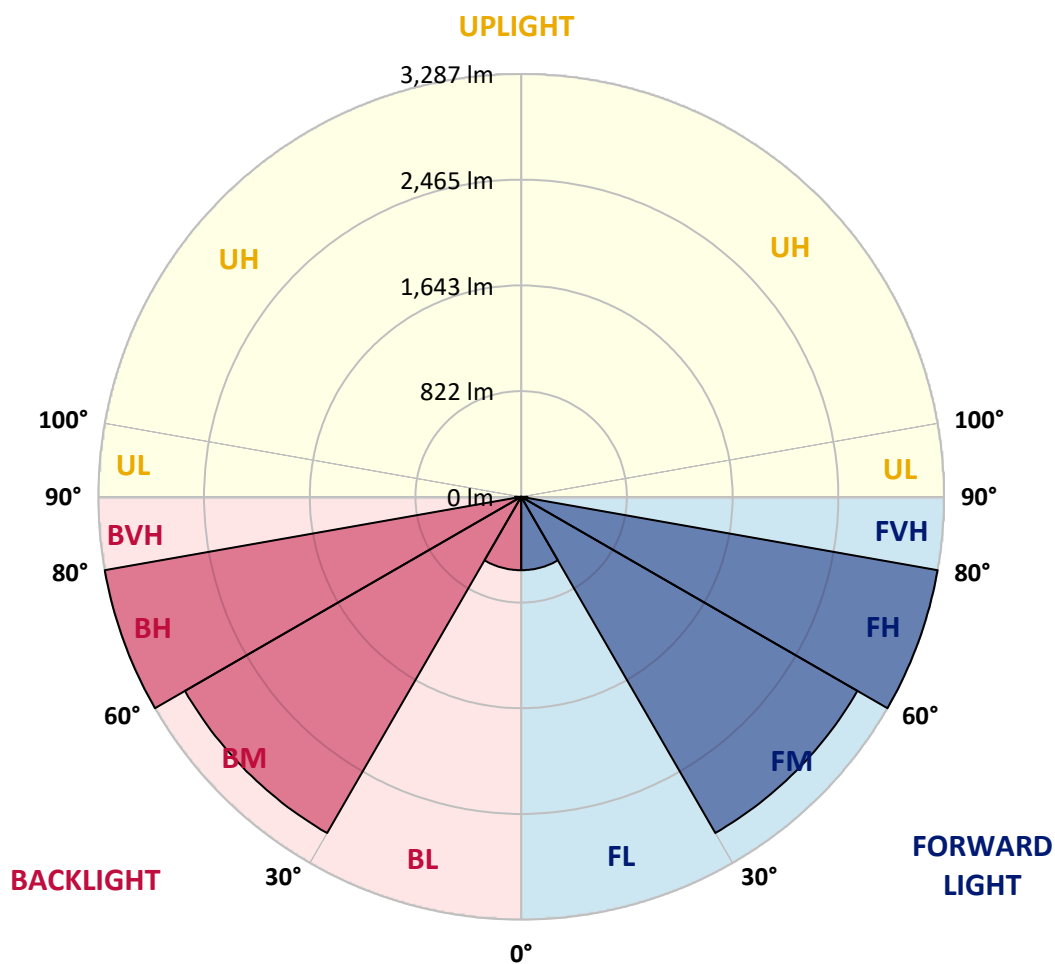
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	570.5	4.1			
FM	(30°-60°)	3017.4	21.8			
FH	(60°-80°)	3286.5	23.7			G2/5000
FVH	(80°-90°)	48.3	0.3			G1/100
BL	(0°-30°)	570.5	4.1	B2/1000		
BM	(30°-60°)	3017.4	21.8	B3/5000		
BH	(60°-80°)	3286.5	23.7	B4/5000		G2/5000
BVH	(80°-90°)	48.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1374.7	1375.9	1375.9	1375.9	1375.2	1375.2	1374.1	1375.2	1374.7	1372.8	1373.4
5°	1363.2	1364.4	1364.4	1363.8	1365.7	1365.0	1363.2	1364.4	1363.8	1362.6	1363.2
7.5°	1346.6	1348.6	1348.6	1347.9	1349.8	1349.2	1347.9	1348.6	1348.6	1346.6	1346.6
10°	1328.1	1329.4	1329.4	1328.8	1332.0	1332.0	1331.4	1333.3	1333.9	1332.0	1330.7
12.5°	1311.0	1312.9	1312.9	1315.5	1318.6	1319.9	1323.1	1325.7	1328.1	1327.5	1325.0
15°	1300.8	1302.1	1304.7	1307.9	1312.9	1317.3	1322.5	1328.1	1333.3	1334.5	1330.7
17.5°	1294.4	1296.4	1300.1	1304.7	1311.6	1319.3	1327.0	1334.5	1341.6	1344.1	1339.6
20°	1292.5	1293.7	1297.6	1305.2	1314.8	1326.3	1337.2	1346.0	1355.6	1358.7	1355.6
22.5°	1296.4	1298.9	1303.4	1312.2	1325.0	1339.6	1352.4	1364.4	1376.5	1382.2	1377.9
25°	1313.6	1316.0	1321.8	1333.3	1347.2	1362.6	1377.2	1391.2	1402.1	1407.8	1404.5
27.5°	1345.3	1348.6	1355.6	1367.1	1382.2	1398.8	1414.8	1426.3	1435.1	1437.1	1433.3
30°	1393.2	1400.1	1408.4	1421.1	1439.0	1452.9	1468.9	1479.1	1489.9	1489.9	1486.7
32.5°	1467.6	1474.6	1483.5	1495.6	1509.6	1524.9	1538.9	1547.8	1559.3	1559.9	1552.2
35°	1579.1	1582.2	1589.8	1597.5	1610.3	1623.6	1635.7	1641.4	1651.0	1651.7	1644.6
37.5°	1726.1	1726.8	1731.9	1734.4	1745.9	1760.5	1771.9	1775.8	1784.6	1783.4	1776.4
40°	1897.4	1900.6	1902.5	1906.3	1918.4	1932.4	1944.5	1946.5	1956.0	1954.1	1945.2
42.5°	2095.4	2096.6	2107.5	2113.2	2124.6	2131.6	2147.0	2148.9	2160.4	2155.2	2145.1
45°	2317.6	2329.1	2339.2	2350.7	2362.8	2371.2	2383.2	2380.6	2388.3	2380.6	2375.0
47.5°	2551.3	2559.6	2582.5	2600.3	2620.0	2627.0	2644.3	2636.7	2644.3	2633.4	2631.5
50°	2808.5	2823.2	2842.9	2863.2	2884.3	2895.7	2918.0	2908.5	2918.7	2908.5	2902.8
52.5°	3061.9	3065.7	3109.1	3139.0	3168.3	3181.6	3195.0	3190.6	3191.1	3190.6	3184.8
55°	3302.6	3311.5	3354.8	3395.6	3446.5	3484.1	3507.0	3504.5	3498.7	3493.0	3483.4
57.5°	3573.9	3582.7	3632.5	3682.7	3740.7	3794.1	3840.6	3888.4	3906.9	3911.9	3890.9
60°	3940.6	3940.0	4006.2	4067.2	4150.1	4229.7	4331.5	4435.3	4554.4	4609.7	4536.6
62.5°	4313.7	4329.0	4424.5	4532.7	4703.4	4869.5	5057.4	5242.0	5430.5	5583.9	5420.9
65°	4269.1	4327.6	4469.7	4714.9	5030.0	5404.4	5809.4	6237.8	6624.9	6891.1	6592.4
67.5°	3699.9	3783.3	3927.9	4225.8	4619.9	5159.9	5839.9	6687.3	7672.3	8148.5	7558.3
70°	2681.8	2776.1	2927.6	3218.6	3608.9	4122.1	4860.6	5878.0	7182.0	7662.2	7012.0
72.5°	1334.5	1385.5	1479.1	1664.3	1959.8	2376.2	3046.0	4024.0	5177.7	5618.3	5024.3
75°	453.3	476.9	492.8	553.3	647.0	810.4	1143.5	1759.2	2683.7	3217.2	2645.5
77.5°	261.6	262.3	273.1	284.0	299.9	317.7	362.3	475.6	822.6	1168.3	851.2
80°	169.4	168.7	177.6	186.0	196.7	205.6	208.2	220.2	254.0	301.1	269.4
82.5°	87.9	98.7	118.4	129.3	149.5	153.4	148.4	143.9	152.2	157.9	161.7
85°	48.4	42.1	63.1	81.5	90.4	91.7	91.7	86.7	89.8	87.9	95.5
87.5°	22.3	20.3	24.8	40.1	42.6	36.3	38.2	33.8	24.1	23.6	26.8
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°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1373.4	1374.1	1374.1	1375.9	1376.5	1377.9	1379.1	1379.7
5°	1362.6	1364.4	1363.2	1365.0	1365.0	1366.4	1366.4	1367.1
7.5°	1346.6	1348.6	1348.6	1348.6	1347.9	1349.8	1349.8	1349.8
10°	1330.1	1331.4	1330.7	1329.4	1328.1	1330.1	1329.4	1328.8
12.5°	1325.0	1321.8	1319.3	1318.0	1315.5	1316.0	1314.2	1314.2
15°	1328.1	1322.5	1318.0	1316.0	1313.6	1312.2	1311.0	1311.6
17.5°	1336.5	1329.4	1323.6	1320.5	1317.3	1315.5	1312.9	1313.6
20°	1351.1	1342.8	1334.5	1328.1	1322.5	1319.3	1317.3	1316.7
22.5°	1372.8	1360.6	1348.6	1339.0	1331.4	1327.0	1325.0	1323.6
25°	1397.5	1384.2	1370.2	1359.4	1351.7	1346.0	1342.1	1342.1
27.5°	1428.8	1417.9	1405.2	1392.5	1385.5	1379.7	1377.2	1375.9
30°	1481.0	1470.8	1460.6	1448.6	1439.6	1433.9	1429.4	1425.7
32.5°	1547.8	1539.6	1531.3	1522.4	1514.2	1506.4	1499.5	1496.3
35°	1642.0	1635.7	1629.9	1619.8	1616.6	1612.1	1608.3	1605.1
37.5°	1771.9	1769.5	1769.5	1758.6	1756.1	1754.1	1750.4	1751.0
40°	1942.6	1945.2	1942.0	1938.2	1936.2	1931.1	1931.1	1935.6
42.5°	2144.4	2146.3	2153.4	2147.0	2153.9	2147.6	2143.7	2147.0
45°	2378.8	2385.7	2399.8	2393.5	2397.8	2387.0	2373.6	2374.3
47.5°	2641.7	2648.1	2653.8	2649.3	2650.0	2632.2	2614.3	2609.8
50°	2914.8	2917.4	2920.6	2914.2	2915.5	2895.7	2875.3	2876.0
52.5°	3184.8	3196.9	3209.6	3192.4	3188.6	3166.4	3137.7	3126.2
55°	3493.6	3510.8	3496.2	3466.2	3436.3	3406.3	3368.8	3362.5
57.5°	3874.4	3845.1	3799.3	3742.5	3701.1	3659.2	3621.0	3605.0
60°	4404.1	4294.0	4211.2	4127.2	4074.3	4022.7	3972.4	3964.8
62.5°	5152.8	4962.4	4797.6	4623.8	4481.9	4371.0	4282.5	4257.7
65°	6091.4	5641.3	5250.9	4886.7	4570.4	4331.5	4181.3	4115.0
67.5°	6495.0	5606.2	4937.0	4420.0	4006.2	3717.1	3554.7	3473.9
70°	5707.4	4649.2	3921.6	3403.9	3026.9	2718.7	2571.6	2485.1
72.5°	3926.6	2957.5	2338.5	1908.9	1607.6	1349.8	1248.0	1240.3
75°	1763.0	1167.8	804.8	620.1	522.1	454.0	433.0	417.1
77.5°	493.5	364.8	325.4	304.4	284.0	260.4	251.6	253.4
80°	240.1	226.7	217.8	204.5	186.0	166.2	157.3	161.0
82.5°	159.2	157.3	163.1	153.4	126.7	107.6	90.4	82.8
85°	96.8	98.0	100.0	100.6	85.3	59.9	40.8	45.9
87.5°	38.2	43.9	47.7	49.7	46.4	28.6	23.0	23.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)