Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P323775

Luminaire Tested: **GAN-SA1D-727-U-SL4-HSS**

Issue Date: 3/3/2020

Report Generated By E0585644

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P323775
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	GAN-SA1D-727-U-SL4-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5514 lumens
Efficiency:	N/A
Efficacy:	82.3 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

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:	24 FT

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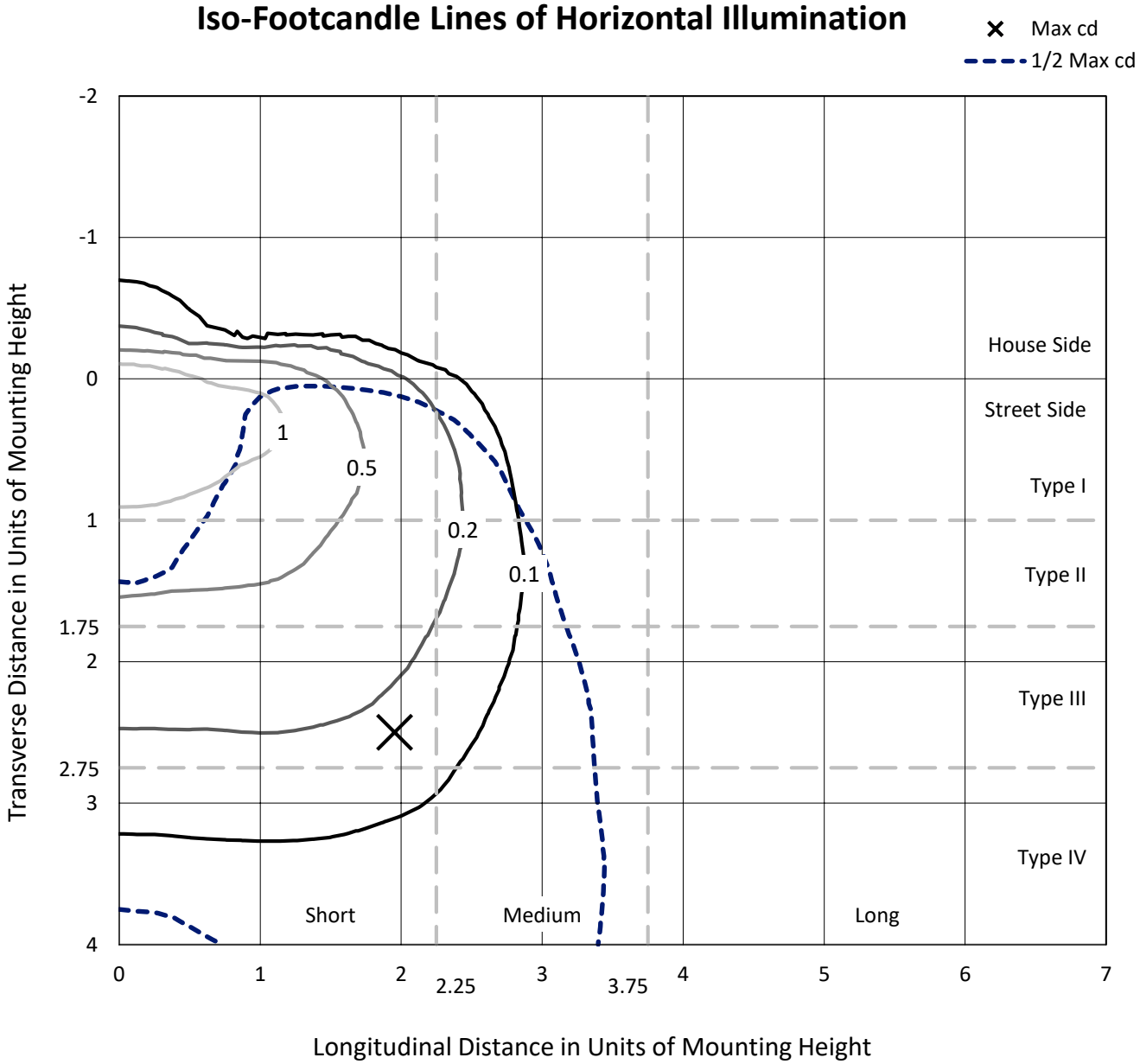
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - N/A

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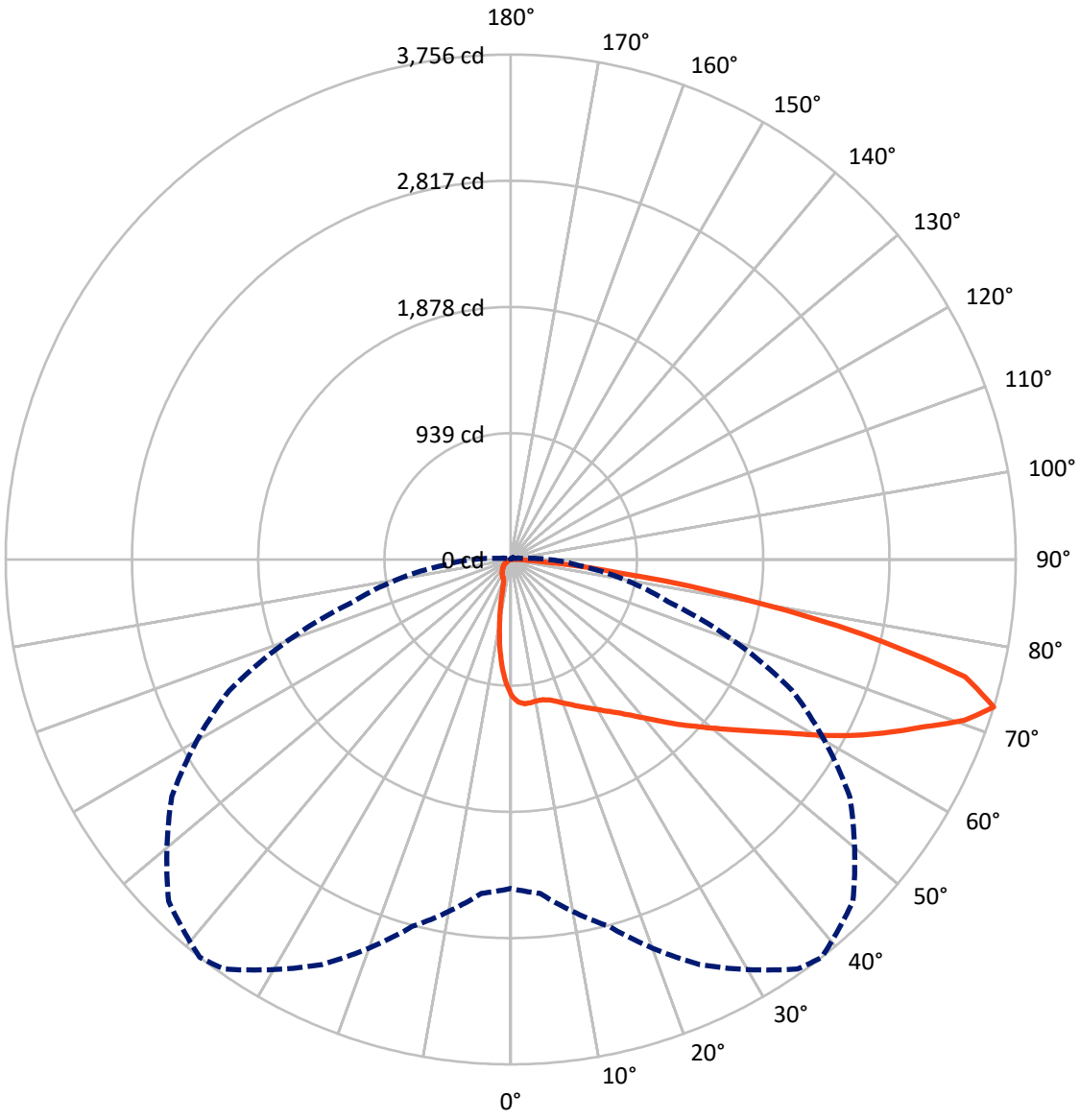
Luminous Intensity Polar Plot



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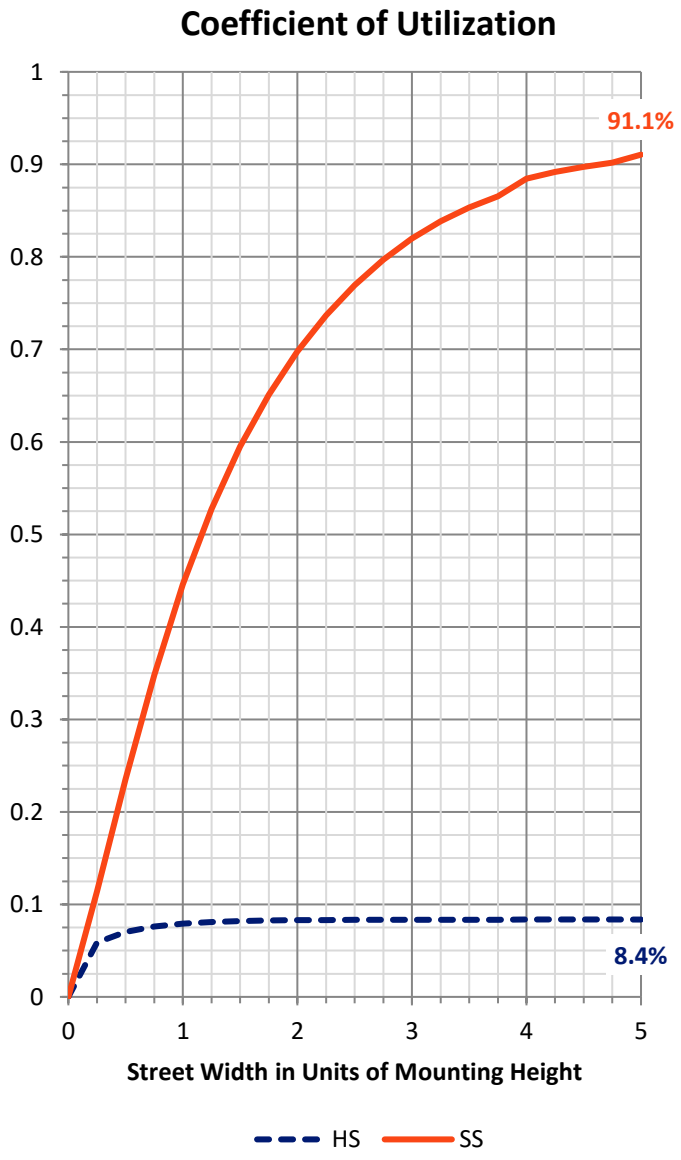
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	464.0	0.0	464.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5050.0	0.0	5050.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	5514.0	0.0	5514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	1.6
10°-20°	211.3	3.8
20°-30°	336.1	6.1
30°-40°	505.2	9.2
40°-50°	770.8	14.0
50°-60°	1089.4	19.8
60°-70°	1366.4	24.8
70°-80°	1021.7	18.5
80°-90°	126.7	2.3
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°	5514.0	100.0
0°-180°	5514.0	100.0



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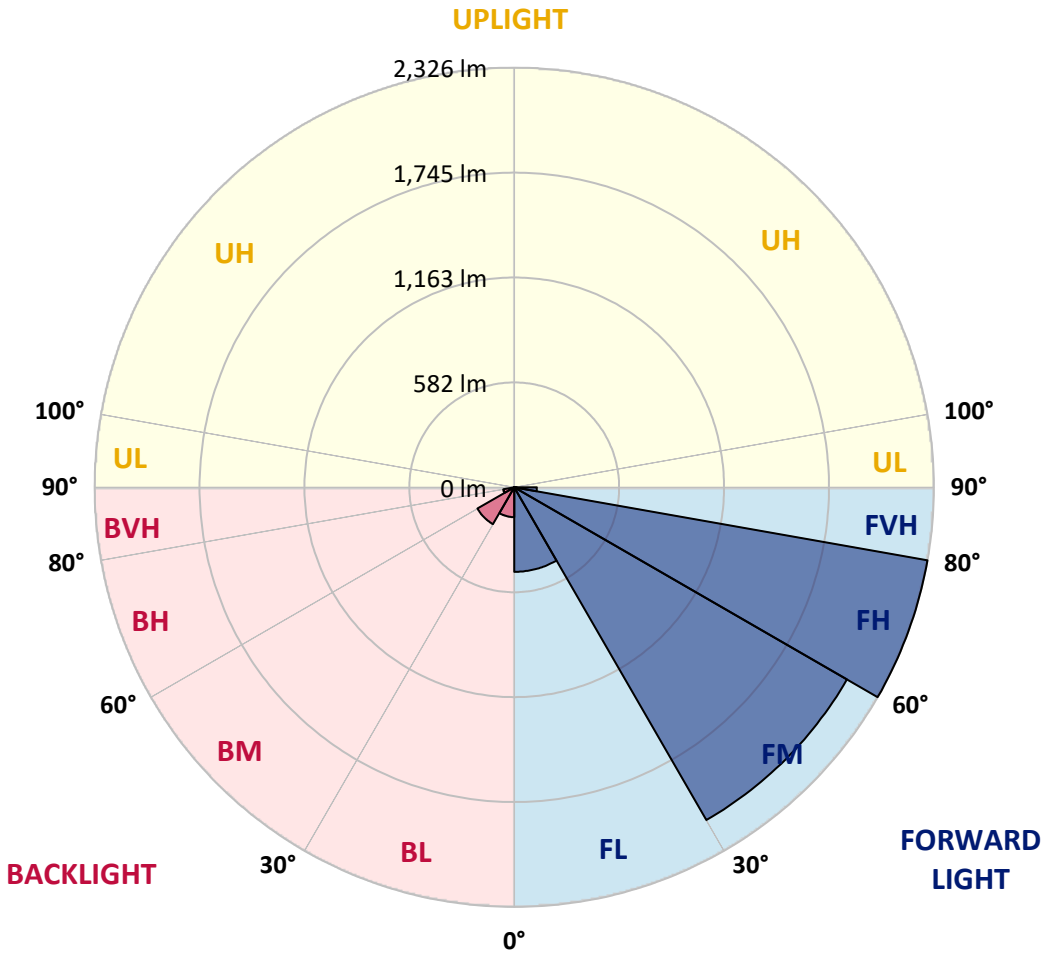
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	468.6	8.5			
FM	(30°-60°)	2129.8	38.6			
FH	(60°-80°)	2326.2	42.2			G2/5000
FVH	(80°-90°)	125.5	2.3			G2/225
BL	(0°-30°)	165.2	3.0	B1/500		
BM	(30°-60°)	235.6	4.3	B1/1000		
BH	(60°-80°)	62.0	1.1	B0/110		G0/110
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1014.0	1014.0	1014.0	1014.0	1014.0	*1014.0*	1014.0	1014.0	1014.0	1014.0	1014.0
2.5°	1076.3	1076.5	1074.0	1069.9	1064.6	*1061.9*	1057.3	1050.0	1042.2	1028.2	1013.1
5°	1098.3	1098.3	1095.1	1089.6	1081.1	*1078.6*	1069.9	1058.2	1042.2	1019.5	994.1
7.5°	1096.0	1096.4	1092.1	1086.4	1077.9	*1075.6*	1065.1	1052.0	1032.1	1004.6	972.1
10°	1084.1	1085.2	1081.8	1079.0	1071.3	*1068.7*	1058.9	1045.8	1025.9	996.6	959.3
12.5°	1071.9	1073.1	1074.2	1076.8	1071.9	*1071.0*	1063.2	1052.2	1033.2	1002.8	960.6
15°	1064.2	1066.4	1074.7	1084.5	1085.7	*1084.8*	1079.7	1069.4	1050.2	1018.6	970.5
17.5°	1064.2	1067.8	1085.0	1103.8	1110.4	*1111.1*	1106.8	1092.3	1069.4	1035.5	979.7
20°	1073.1	1078.1	1104.9	1131.5	1142.5	*1142.5*	1134.0	1113.8	1087.1	1050.9	985.8
22.5°	1096.0	1102.6	1136.3	1167.0	1178.7	*1176.1*	1164.7	1135.4	1105.4	1068.3	993.6
25°	1141.1	1146.1	1181.2	1212.1	1219.2	*1213.5*	1199.0	1161.5	1128.7	1091.9	1007.8
27.5°	1199.3	1200.0	1236.1	1262.2	1257.9	*1254.0*	1235.9	1194.2	1162.4	1125.5	1032.3
30°	1263.2	1263.2	1295.0	1314.9	1301.6	*1298.4*	1280.3	1233.8	1205.4	1171.3	1067.1
32.5°	1325.0	1327.7	1353.6	1366.2	1351.3	*1348.1*	1330.5	1284.0	1262.7	1241.2	1121.4
35°	1384.8	1386.8	1411.3	1418.2	1404.0	*1404.9*	1392.3	1352.9	1344.9	1342.2	1203.2
37.5°	1442.7	1443.2	1468.1	1472.5	1465.4	*1473.1*	1474.3	1439.5	1454.4	1476.6	1318.3
40°	1495.6	1496.0	1520.8	1532.0	1544.1	*1554.2*	1563.1	1544.6	1593.8	1645.4	1455.5
42.5°	1538.0	1542.8	1574.1	1595.4	1627.5	*1646.7*	1671.0	1670.1	1759.9	1837.3	1621.3
45°	1575.3	1583.5	1627.3	1664.6	1719.6	*1750.2*	1788.3	1818.0	1946.7	2050.9	1789.2
47.5°	1624.5	1632.3	1682.2	1743.4	1816.6	*1857.0*	1919.9	1984.3	2152.1	2260.7	1953.1
50°	1693.9	1690.5	1739.7	1827.4	1921.5	*1974.4*	2064.2	2160.6	2355.9	2443.4	2049.5
52.5°	1767.9	1766.5	1802.9	1918.8	2045.2	*2107.0*	2225.6	2342.9	2550.8	2569.4	2093.7
55°	1859.5	1849.6	1880.3	2023.0	2192.0	*2258.4*	2398.1	2523.3	2706.1	2640.4	2115.9
57.5°	1955.4	1939.2	1968.5	2139.1	2357.5	*2436.1*	2589.1	2699.2	2809.4	2688.9	2115.7
60°	2054.6	2035.3	2070.1	2284.3	2563.2	*2654.1*	2796.1	2818.1	2905.8	2713.4	2100.1
62.5°	2137.5	2126.0	2177.8	2439.5	2792.9	*2882.2*	2952.5	2926.1	2987.1	2732.4	2063.7
65°	2225.2	2225.9	2309.5	2620.7	3037.0	*3097.2*	3103.2	3066.3	3055.1	2728.5	1940.5
67.5°	2343.8	2354.8	2494.3	2866.6	3274.5	*3320.9*	3320.5	3218.1	3104.8	2573.7	1667.3
70°	2469.3	2495.2	2707.2	3148.0	3533.7	*3580.9*	3556.6	3314.8	2923.4	2081.1	1180.0
72.5°	*2448.2*	*2493.1*	*2825.6*	*3325.5*	*3719.9*	*3755.8*	*3598.0*	*3077.3*	*2310.6*	*1209.6*	*502.4*
75°	1888.8	1940.8	2590.9	3149.6	3524.5	*3492.2*	3091.5	2394.6	1262.7	337.5	113.1
77.5°	997.7	1025.5	1711.5	2399.4	2748.2	*2680.7*	2177.8	1328.4	384.9	83.6	50.8
80°	522.6	529.0	745.8	1361.4	1696.2	*1696.7*	1290.6	583.5	158.7	42.8	34.1
82.5°	279.8	285.3	394.1	629.1	888.7	*805.6*	494.2	321.1	92.3	24.3	32.7
85°	67.3	68.5	223.5	287.4	349.5	*249.6*	146.8	269.5	25.0	14.2	26.6
87.5°	25.9	26.3	82.9	124.3	89.1	*57.7*	68.7	100.5	3.2	5.5	4.1
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°	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0
2.5°	1003.9	998.0	983.3	964.8	948.3	936.4	918.5	906.8	899.0	898.8	895.8
5°	978.5	966.4	934.8	897.2	863.1	832.4	796.2	767.6	746.3	742.9	735.5
7.5°	951.3	931.3	882.8	824.2	766.9	708.8	641.2	599.3	563.3	546.2	544.3
10°	934.5	906.6	837.7	752.9	663.2	568.6	480.2	419.1	374.9	362.3	352.9
12.5°	931.1	894.2	802.9	686.1	557.8	432.8	335.0	270.0	234.7	223.5	220.5
15°	934.5	888.5	773.6	619.9	451.1	307.1	224.9	187.1	173.8	170.6	170.4
17.5°	936.6	881.6	740.4	546.4	347.6	219.4	172.2	161.2	159.2	158.9	159.4
20°	936.4	871.1	700.7	464.4	258.5	172.4	155.7	153.4	153.0	153.2	153.0
22.5°	934.8	858.7	657.2	379.9	195.3	154.1	148.6	147.2	147.0	147.0	147.0
25°	937.7	848.9	609.4	299.1	161.0	145.6	142.2	141.1	140.8	140.8	140.4
27.5°	948.5	843.4	556.9	230.1	145.4	138.1	135.3	135.1	134.4	134.2	134.7
30°	965.9	843.4	499.4	179.1	136.0	130.3	128.2	127.8	127.6	127.3	127.6
32.5°	996.6	849.8	436.7	148.8	127.1	121.6	120.2	120.9	120.2	120.2	120.2
35°	1052.0	869.1	371.0	129.8	117.7	113.1	111.8	112.7	112.2	112.2	112.0
37.5°	1132.9	904.8	304.8	118.4	109.5	104.7	102.8	104.2	103.7	103.7	103.5
40°	1231.3	956.8	241.8	109.7	101.4	96.4	94.8	95.5	94.3	94.3	94.8
42.5°	1352.9	1022.7	186.9	101.2	93.4	88.6	87.7	87.0	85.0	83.8	84.0
45°	1488.0	1091.4	145.6	93.0	85.9	82.0	80.6	78.8	75.3	73.1	73.3
47.5°	1608.7	1144.3	118.4	85.0	79.0	76.0	74.0	70.5	65.5	62.7	63.0
50°	1672.1	1152.3	100.8	76.9	72.6	69.6	66.6	61.4	55.4	52.4	52.2
52.5°	1688.4	1114.8	87.7	69.6	66.2	62.7	58.9	51.8	45.1	41.9	41.4
55°	1694.4	1057.5	76.0	62.7	59.3	55.4	50.4	42.4	36.2	33.0	32.7
57.5°	1674.7	972.1	66.9	56.6	52.4	47.6	41.4	33.9	27.9	25.4	25.4
60°	1630.9	856.5	59.8	49.9	45.3	39.8	33.4	26.3	20.8	18.8	18.8
62.5°	1543.7	706.7	53.1	43.1	38.7	33.0	27.0	19.9	14.7	13.5	13.7
65°	1379.0	536.1	46.5	36.9	33.0	27.3	21.1	14.2	9.8	9.8	10.3
67.5°	1124.6	372.4	39.6	31.4	28.4	22.2	16.0	9.8	6.9	7.8	8.7
70°	744.5	208.8	33.9	25.9	24.3	17.6	11.9	6.6	5.5	7.3	8.9
72.5°	*281.0*	*81.3*	*28.4*	*20.8*	*21.1*	*13.5*	*8.5*	*5.0*	*5.0*	*8.0*	*10.5*
75°	78.3	39.8	20.4	15.3	16.5	9.8	6.2	4.4	4.8	9.2	12.4
77.5°	46.0	29.3	13.3	8.9	11.2	6.9	4.1	3.4	4.1	7.8	11.9
80°	37.1	15.6	7.8	4.6	6.2	3.9	2.7	2.1	1.1	3.0	6.2
82.5°	37.1	9.4	3.7	3.2	3.2	2.1	1.4	0.9	0.2	0.0	1.6
85°	25.0	3.9	2.3	2.1	1.6	0.7	0.5	0.2	0.0	0.0	0.0
87.5°	4.1	1.6	0.9	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
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)