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: P321127

Luminaire Tested: **GAN-SA3C-830-U-AFL**

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:	P321127
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	GAN-SA3C-830-U-AFL
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17605 lumens
Efficiency:	N/A
Efficacy:	106.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	166
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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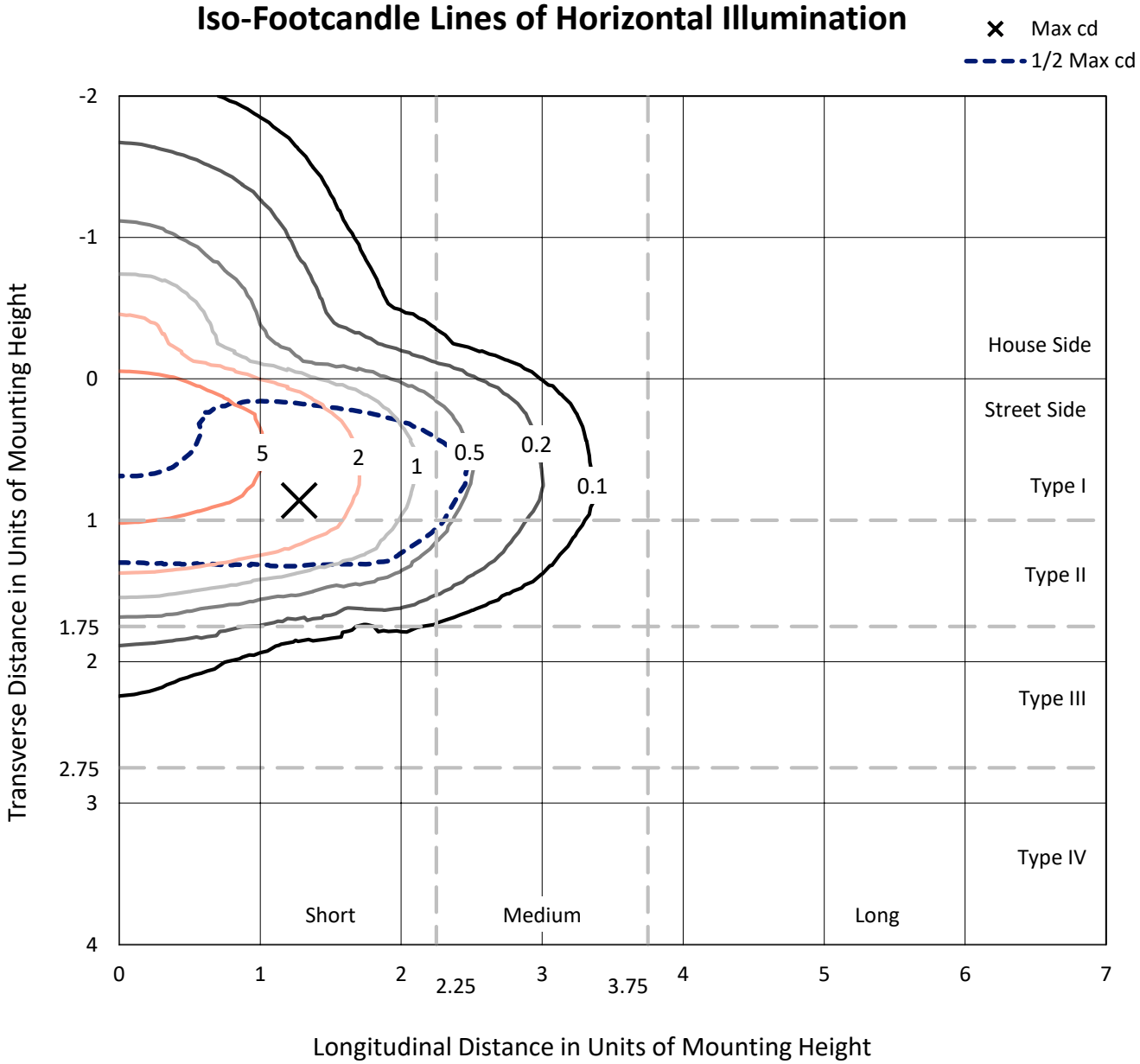
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
Type II - Short - N/A

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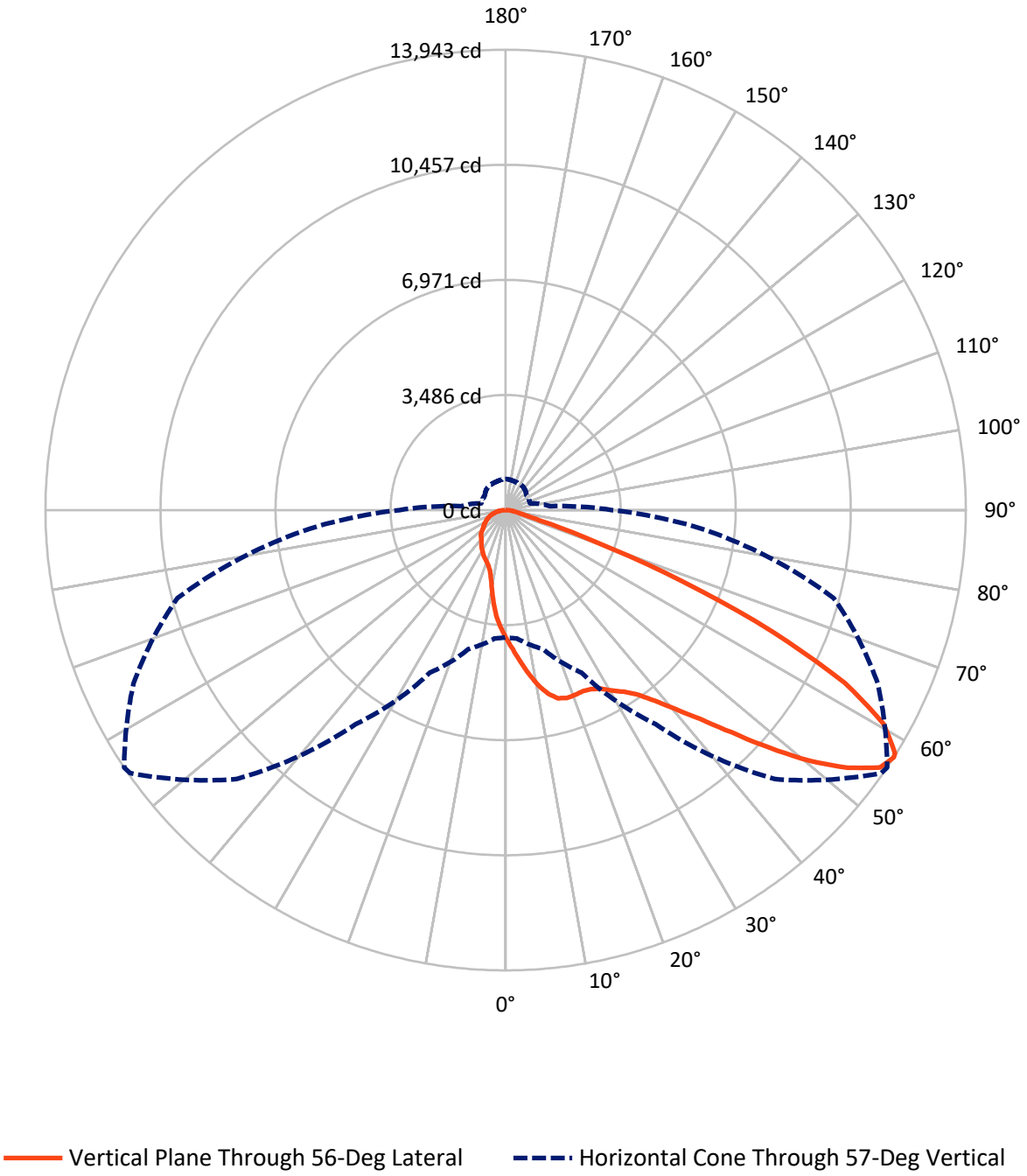
Luminous Intensity Polar Plot



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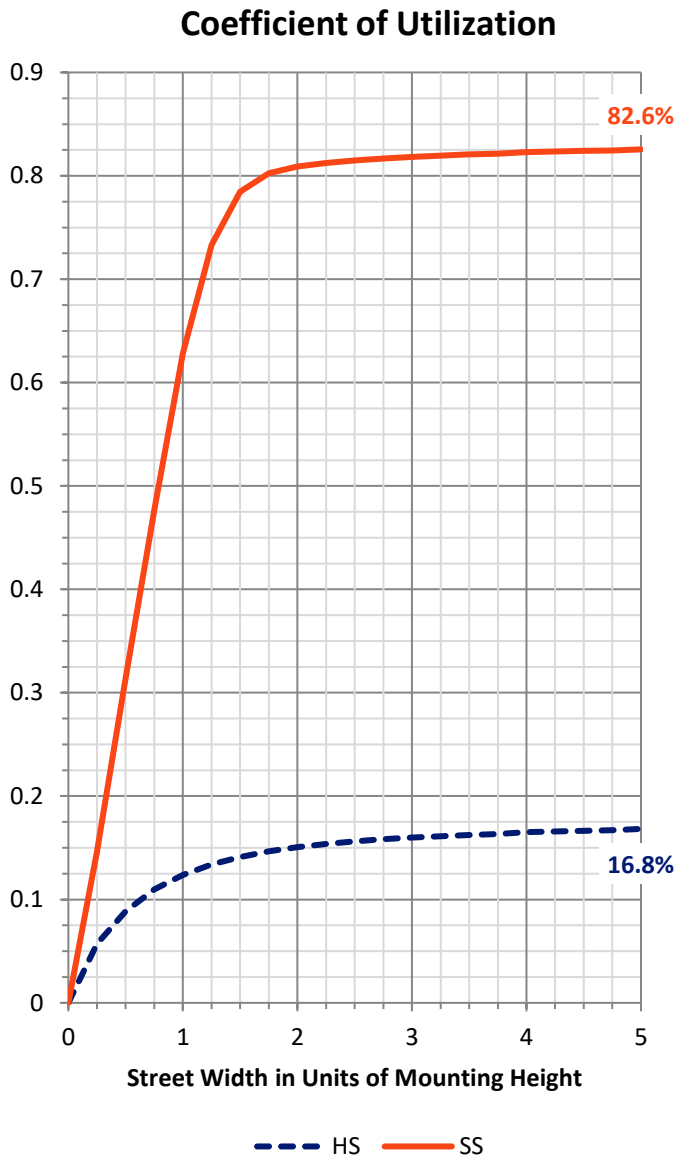
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3034.7	0.0	3034.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	14570.3	0.0	14570.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	17605.0	0.0	17605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.0	2.1
10°-20°	1054.6	6.0
20°-30°	1717.7	9.8
30°-40°	2567.8	14.6
40°-50°	3894.8	22.1
50°-60°	4365.3	24.8
60°-70°	2578.3	14.6
70°-80°	844.8	4.8
80°-90°	208.7	1.2
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°	17605.0	100.0
0°-180°	17605.0	100.0



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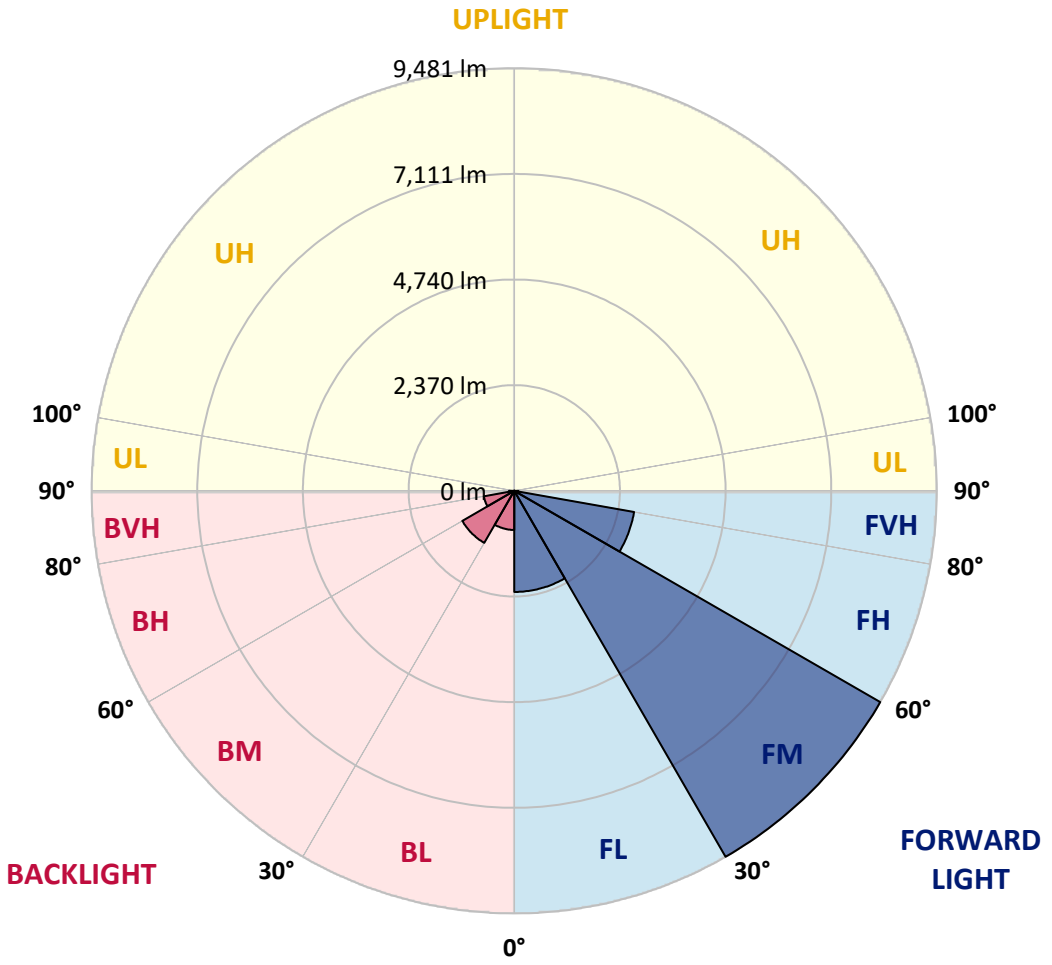
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2267.8	12.9			
FM	(30°-60°)	9480.9	53.9			
FH	(60°-80°)	2729.7	15.5			G2/5000
FVH	(80°-90°)	91.9	0.5			G1/100
BL	(0°-30°)	877.5	5.0	B2/1000		
BM	(30°-60°)	1347.0	7.7	B2/2500		
BH	(60°-80°)	693.4	3.9	B2/1000		G2/1000
BVH	(80°-90°)	116.8	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3904.8	3904.8	3904.8	3904.8	3904.8	3904.8	3904.8	*3904.8*	3904.8	3904.8	3904.8
2.5°	4483.8	4525.0	4506.8	4443.9	4395.5	4327.1	4250.9	*4227.9*	4147.4	4057.3	3949.0
5°	5193.5	5172.9	5143.3	5045.3	4941.8	4821.4	4630.2	*4600.0*	4420.9	4217.0	4001.6
7.5°	5597.7	5595.8	5578.3	5520.8	5426.4	5269.1	5038.6	*5002.9*	4732.5	4404.6	4070.6
10°	5539.0	5534.7	5563.8	5623.7	5652.1	5619.4	5425.2	*5389.5*	5057.4	4612.1	4150.4
12.5°	5205.6	5208.0	5254.6	5380.5	5551.7	5757.4	5725.9	*5708.4*	5394.4	4846.8	4247.2
15°	4946.0	4951.5	4988.4	5097.9	5300.0	5673.3	5908.6	*5914.7*	5720.5	5105.8	4360.4
17.5°	4832.3	4843.8	4860.7	4937.6	5122.7	5505.7	5952.2	*5984.9*	6006.0	5374.4	4469.3
20°	4868.6	4879.5	4884.3	4933.3	5085.2	5404.0	5921.9	*5980.6*	6225.1	5627.3	4578.2
22.5°	5031.4	5038.0	5041.0	5053.7	5171.7	5433.1	5902.0	*5963.7*	6383.6	5854.2	4660.5
25°	5301.2	5296.4	5277.0	5260.7	5339.9	5548.0	5948.0	*6006.6*	6512.4	6059.9	4714.3
27.5°	5624.3	5618.2	5580.7	5535.9	5581.3	5727.1	6080.5	*6127.0*	6628.0	6252.3	4741.5
30°	6012.1	5996.4	5925.6	5872.3	5889.9	5995.8	6298.9	*6341.2*	6806.5	6470.7	4768.2
32.5°	6460.4	6443.5	6341.2	6252.9	6252.9	6341.2	6523.9	*6559.0*	6957.7	6717.5	4811.1
35°	7021.9	7000.7	6867.6	6719.4	6677.6	6722.4	6830.7	*6855.5*	7230.0	7028.5	4889.2
37.5°	7683.8	7655.3	7482.9	7284.5	7193.1	7190.7	7268.7	*7319.5*	7665.0	7436.9	5021.7
40°	8347.5	8327.5	8176.9	8020.8	7841.7	7784.2	7904.6	*7920.3*	8233.7	7943.9	5191.1
42.5°	8860.5	8856.9	8829.1	8849.6	8666.3	8550.2	8644.5	*8657.2*	8928.3	8492.7	5371.4
45°	9131.6	9137.6	9272.6	9571.4	9639.2	9554.5	9601.1	*9604.7*	9722.1	9046.3	5536.5
47.5°	8914.4	8945.8	9287.1	9955.6	10510.4	10791.8	10714.3	*10759.1*	10491.7	9521.8	5666.0
50°	8068.0	8106.7	8687.5	9784.4	10917.0	11989.1	11948.6	*11938.3*	11112.4	9870.3	5736.2
52.5°	7019.5	7049.7	7528.9	8894.4	10618.7	12651.0	13023.1	*12969.8*	11664.2	10131.1	5749.5
55°	5422.8	5470.0	5929.2	7118.1	9412.3	12398.1	13813.2	*13765.4*	12167.0	10267.8	5733.8
57°	*3855.2*	*3904.8*	*4361.0*	*5432.5*	*7917.9*	*11522.6*	*13891.9*	*13942.7*	*12438.6*	*10290.8*	*5751.3*
57.5°	3440.1	3491.0	3942.9	4983.6	7452.0	11206.2	13824.1	*13908.8*	12487.6	10287.2	5761.0
60°	1732.2	1751.5	2039.5	2781.9	4710.7	9059.6	12940.2	*13158.6*	12531.8	10109.3	5802.8
62.5°	1076.9	1063.0	1053.9	1281.4	2291.8	6007.9	11116.0	*11536.5*	11686.6	9678.5	5701.7
65°	946.9	920.8	821.0	802.9	1012.2	2918.0	8371.1	*8894.4*	9880.6	8999.7	5460.9
67.5°	889.4	864.0	751.4	683.7	684.3	1156.8	5197.1	*5786.4*	7697.1	7852.0	4892.8
70°	830.1	807.1	701.8	622.0	582.6	640.7	2391.0	*2838.2*	5017.4	6171.8	4089.3
72.5°	753.9	738.1	638.3	556.0	514.3	479.8	915.4	*1081.2*	2904.7	4145.0	2840.0
75°	674.0	659.5	574.2	495.5	444.7	377.5	515.5	*555.4*	1475.6	2120.6	1398.2
77.5°	586.3	577.8	510.6	438.0	397.5	312.8	364.8	*384.2*	632.9	909.3	701.2
80°	466.5	482.8	446.5	390.2	352.7	250.5	258.3	*271.0*	368.5	444.1	398.1
82.5°	303.7	332.2	349.7	317.0	290.4	197.2	185.7	*191.2*	240.2	271.0	173.0
85°	126.4	142.2	229.9	207.5	193.0	144.0	124.6	*127.1*	148.8	154.3	70.8
87.5°	56.3	59.9	101.0	95.0	81.7	49.6	53.2	*58.1*	79.3	75.0	27.2
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°	3904.8	3904.8	3904.8	3904.8	3904.8	3904.8	3904.8	3904.8	3904.8	3904.8	3904.8
2.5°	3908.4	3857.6	3770.5	3674.3	3595.6	3532.7	3469.2	3425.6	3374.8	3347.6	3333.7
5°	3911.5	3811.6	3628.3	3440.1	3272.0	3118.3	2971.9	2859.3	2754.1	2697.2	2681.5
7.5°	3924.2	3774.1	3477.7	3167.9	2869.0	2596.1	2385.6	2253.7	2158.7	2116.4	2104.3
10°	3934.5	3730.0	3291.3	2832.7	2426.1	2149.6	1986.3	1912.5	1879.8	1874.4	1868.9
12.5°	3958.7	3684.6	3095.3	2483.0	2081.9	1890.7	1833.8	1829.0	1838.1	1851.4	1851.4
15°	3996.8	3639.8	2871.4	2182.9	1862.9	1795.7	1807.2	1833.8	1858.6	1879.2	1882.2
17.5°	4024.6	3584.7	2630.6	1942.7	1746.1	1764.2	1805.4	1842.9	1868.3	1888.3	1890.1
20°	4044.6	3499.4	2373.5	1759.4	1678.9	1735.2	1786.6	1819.9	1837.4	1857.4	1860.4
22.5°	4034.3	3385.1	2145.4	1628.1	1624.5	1692.8	1741.9	1781.8	1768.5	1749.1	1761.8
25°	3984.7	3227.8	1910.7	1530.1	1567.0	1636.0	1696.5	1669.9	1625.1	1616.6	1621.5
27.5°	3896.3	3026.9	1693.5	1439.3	1500.5	1583.3	1579.7	1553.1	1537.4	1526.5	1533.1
30°	3801.3	2809.1	1503.5	1360.1	1426.6	1495.0	1481.1	1480.5	1464.8	1447.2	1455.7
32.5°	3707.6	2590.1	1352.8	1294.7	1371.0	1380.1	1410.3	1419.4	1388.5	1351.6	1349.2
35°	3625.9	2383.2	1238.5	1235.5	1303.8	1305.0	1349.2	1336.5	1259.7	1221.5	1221.5
37.5°	3564.8	2176.9	1151.4	1182.2	1215.5	1246.9	1269.3	1216.7	1204.0	1182.8	1182.2
40°	3538.2	1995.4	1096.9	1141.7	1153.2	1193.1	1135.6	1156.2	1162.2	1151.4	1151.4
42.5°	3510.3	1837.4	1049.7	1110.8	1109.0	1103.6	1074.5	1101.1	1125.3	1125.9	1124.1
45°	3482.5	1701.3	1008.0	1044.9	1070.3	1011.6	1017.0	1045.5	1079.4	1091.5	1091.5
47.5°	3451.6	1593.6	969.8	975.3	1014.6	975.3	971.1	992.8	1032.8	1052.1	1056.4
50°	3383.9	1496.8	926.3	914.2	925.1	938.4	942.0	952.3	996.5	1027.3	1034.6
52.5°	3290.1	1410.3	870.6	857.9	857.9	908.1	925.1	928.1	965.6	1002.5	1009.8
55°	3212.1	1355.2	813.1	810.7	808.3	876.1	905.1	910.0	936.0	965.0	968.6
57°	*3217.5*	*1351.0*	*769.0*	*771.4*	*770.8*	*843.4*	*886.4*	*896.6*	*910.0*	*934.8*	*939.0*
57.5°	3220.5	1354.0	759.3	760.5	759.9	834.3	880.9	892.4	902.7	928.7	932.9
60°	3265.9	1361.9	720.0	706.7	709.7	785.9	850.1	864.6	871.2	905.7	911.2
62.5°	3198.7	1326.8	688.5	656.4	656.4	735.1	807.1	830.1	840.4	887.0	896.0
65°	3003.9	1228.2	651.6	599.6	605.6	684.3	755.7	793.2	808.9	867.0	876.7
67.5°	2703.2	1113.8	612.3	548.8	554.8	631.0	702.4	743.0	767.8	845.2	853.1
70°	2311.8	974.1	559.0	494.9	502.2	573.0	639.5	685.5	722.4	824.6	827.1
72.5°	1704.3	798.6	484.6	435.6	443.5	505.2	576.0	629.2	678.8	773.2	772.0
75°	1013.4	624.4	402.3	375.7	381.2	438.6	518.5	583.2	657.7	753.3	764.7
77.5°	614.7	470.1	327.9	314.6	321.3	380.0	477.4	546.3	648.6	710.3	706.7
80°	371.5	335.8	262.0	253.5	260.2	324.9	441.7	518.5	566.9	606.8	606.8
82.5°	194.2	205.1	192.4	185.7	194.8	263.8	401.7	452.6	501.0	430.2	401.7
85°	79.3	107.1	116.8	116.2	121.6	182.7	346.7	387.2	323.1	306.7	314.0
87.5°	26.6	45.4	56.9	49.0	51.4	115.0	240.2	187.0	222.0	154.9	147.0
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)