

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: P324966

Luminaire Tested: **GAN-SA2C-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9414 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

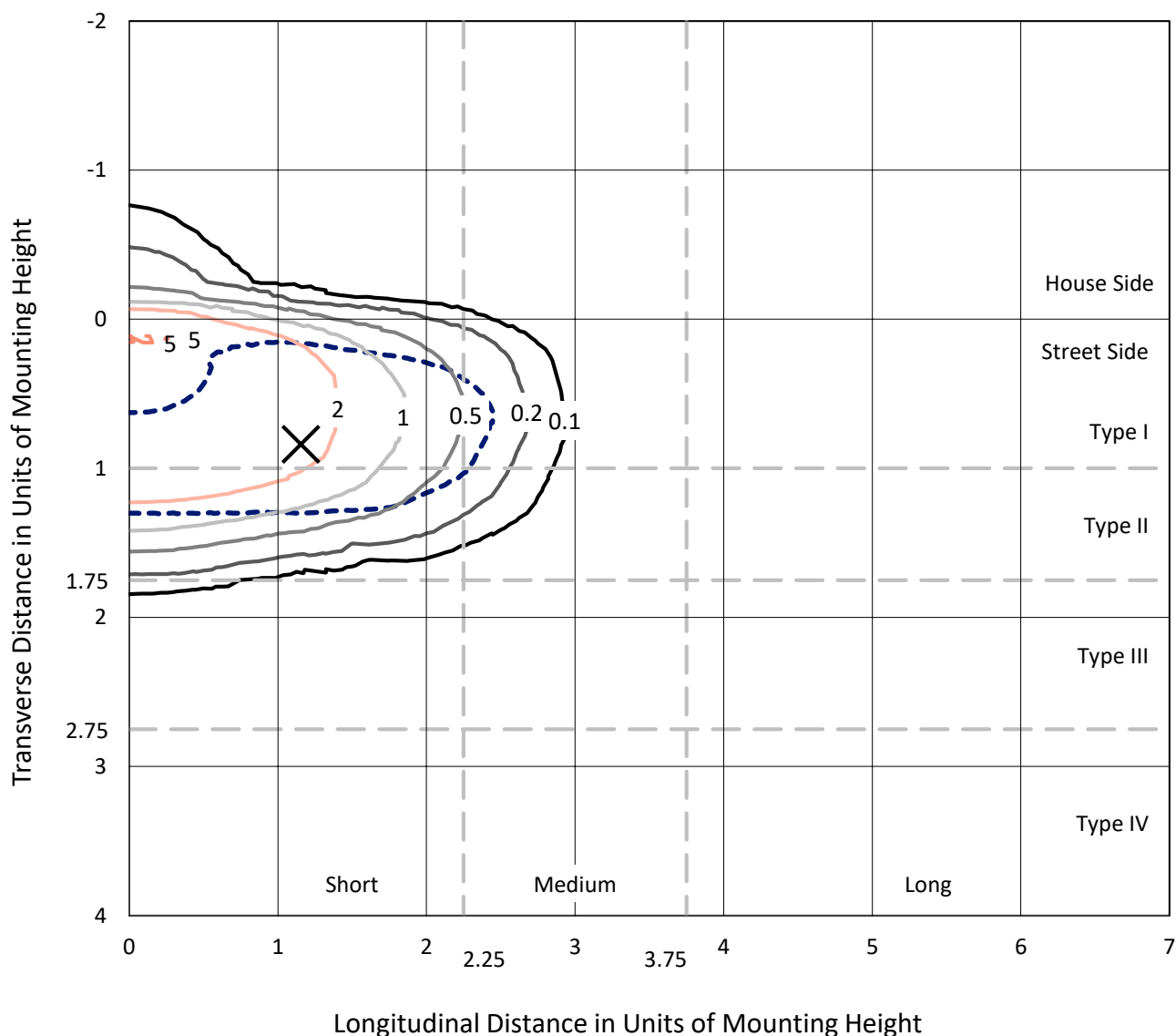
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

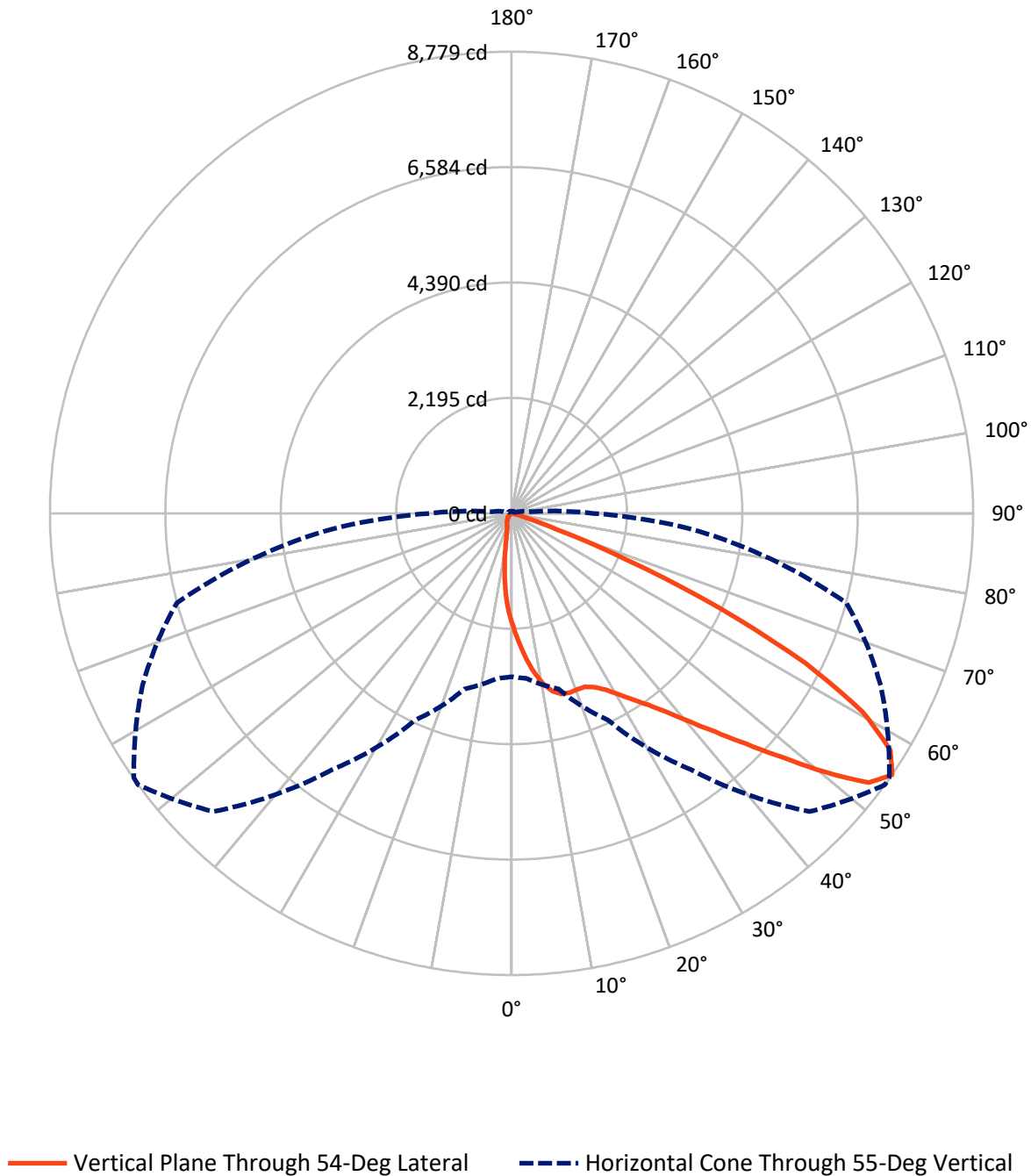
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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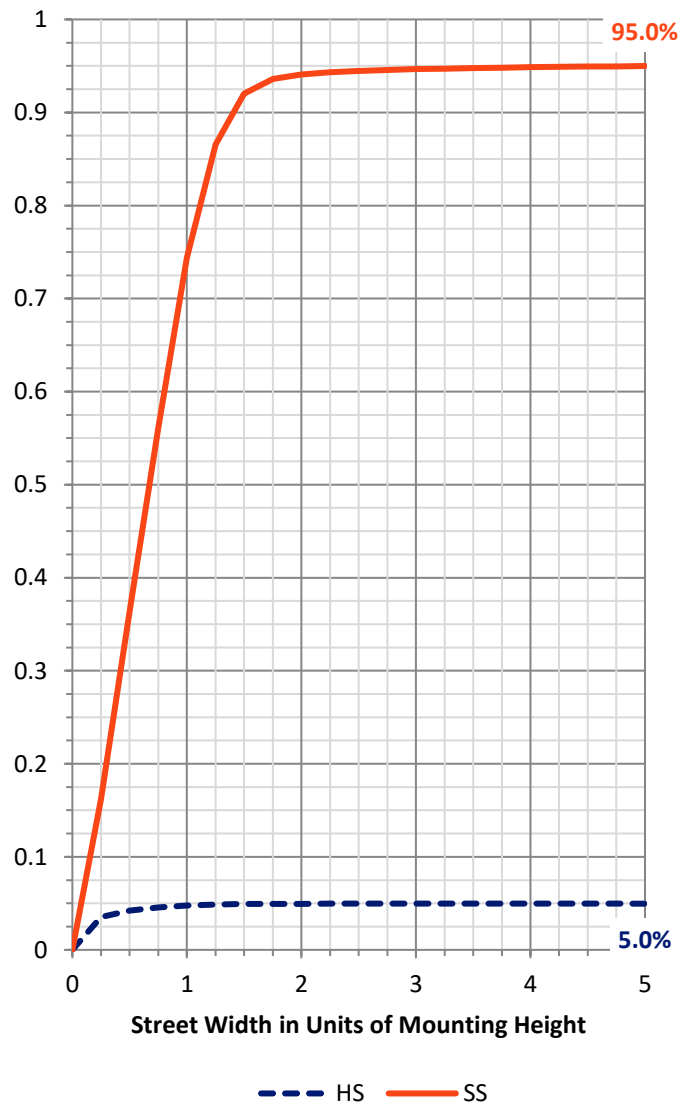
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	469.7	0.0	469.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8944.3	0.0	8944.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	9414.0	0.0	9414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.2	2.1
10°-20°	532.5	5.7
20°-30°	909.1	9.7
30°-40°	1459.0	15.5
40°-50°	2331.5	24.8
50°-60°	2498.2	26.5
60°-70°	1282.7	13.6
70°-80°	194.3	2.1
80°-90°	12.7	0.1
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°	9414.0	100.0
0°-180°	9414.0	100.0

Coefficient of Utilization



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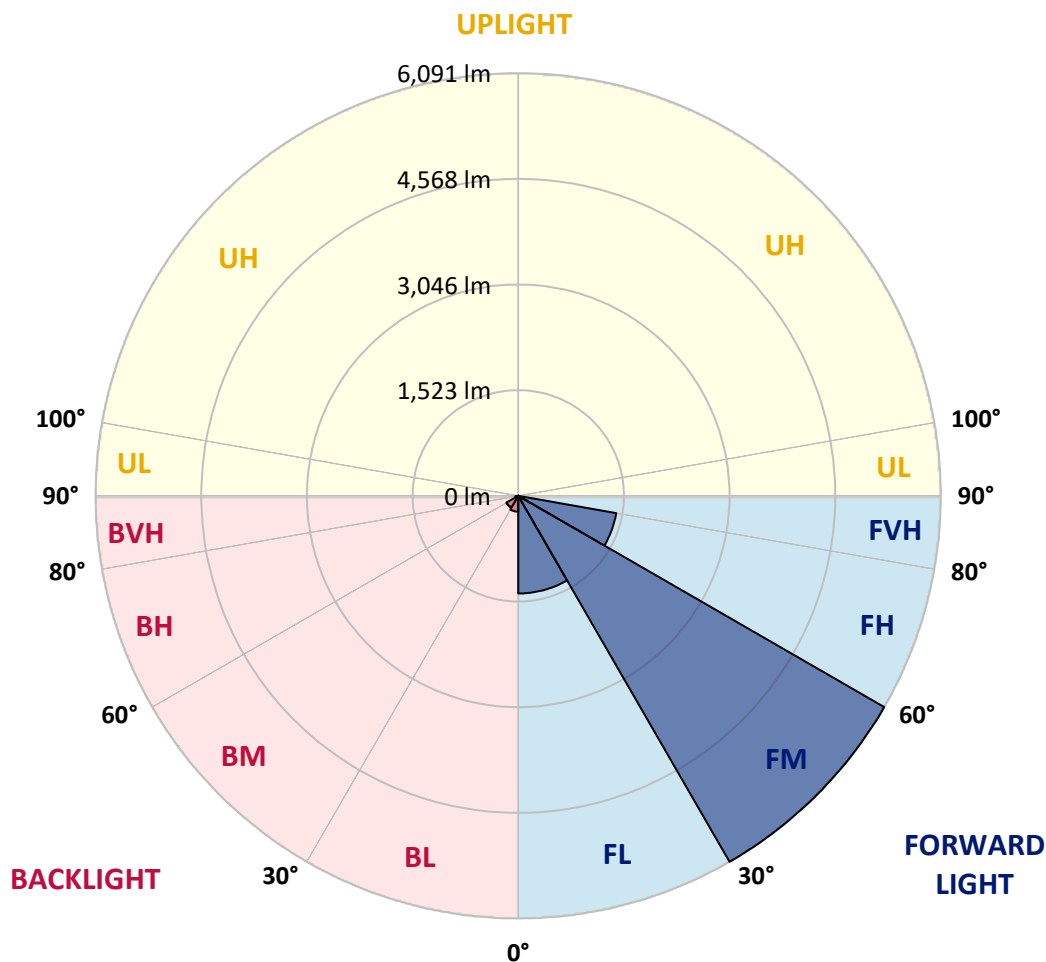
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1407.2	14.9			
FM	(30°-60°)	6091.3	64.7			
FH	(60°-80°)	1433.7	15.2			G1/1800
FVH	(80°-90°)	12.1	0.1			G1/100
BL	(0°-30°)	228.5	2.4	B1/500		
BM	(30°-60°)	197.4	2.1	B0/220		
BH	(60°-80°)	43.3	0.5	B0/110		G0/110
BVH	(80°-90°)	0.5	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4
2.5°	2645.8	2606.4	2607.6	2589.7	2524.3	2473.0	2419.8	2407.2	2324.2	2237.2	2153.5
5°	3103.2	3074.3	3067.4	3032.8	2941.8	2845.4	2742.2	2718.2	2556.0	2377.9	2202.7
7.5°	3338.2	3338.6	3332.9	3320.3	3263.4	3169.9	3043.8	3018.6	2797.9	2530.8	2253.9
10°	3269.9	3285.3	3317.0	3358.9	3402.4	3390.6	3295.9	3273.1	3033.3	2692.6	2310.8
12.5°	3110.5	3112.5	3147.9	3216.6	3341.8	3470.3	3471.9	3464.2	3258.1	2861.7	2373.4
15°	3031.2	3038.9	3052.0	3096.3	3215.0	3420.7	3567.9	3578.8	3464.2	3041.4	2440.1
17.5°	3083.3	3094.2	3083.3	3088.5	3157.3	3342.2	3584.5	3612.6	3644.3	3219.0	2503.1
20°	3224.3	3234.5	3215.0	3193.4	3206.9	3319.5	3572.7	3610.6	3785.4	3376.8	2556.0
22.5°	3414.6	3418.7	3389.0	3353.6	3343.9	3396.7	3582.5	3621.5	3898.4	3519.5	2589.3
25°	3624.0	3627.6	3590.6	3550.0	3526.8	3548.4	3662.6	3691.9	3998.0	3655.7	2608.4
27.5°	3852.0	3855.3	3808.9	3758.9	3732.1	3732.9	3794.7	3826.0	4104.1	3811.0	2623.9
30°	4093.1	4091.5	4048.8	3979.3	3945.1	3944.3	3985.0	4016.7	4257.8	4010.2	2645.0
32.5°	4363.9	4360.6	4300.1	4213.9	4175.2	4180.9	4217.1	4235.4	4448.4	4222.4	2682.8
35°	4720.4	4711.1	4619.6	4512.7	4441.5	4439.5	4470.0	4484.6	4691.6	4479.3	2745.8
37.5°	5183.1	5174.5	5050.5	4895.2	4795.2	4757.8	4794.0	4812.7	5038.3	4809.1	2847.1
40°	5639.2	5630.7	5557.1	5414.8	5260.7	5170.9	5199.3	5219.3	5471.3	5209.1	2974.7
42.5°	5953.9	5961.2	5986.8	5998.6	5854.3	5665.7	5678.7	5699.4	5926.3	5636.8	3120.7
45°	6036.8	6052.7	6197.4	6481.6	6535.7	6388.5	6252.3	6263.7	6388.5	6064.5	3266.6
47.5°	5787.6	5816.9	6096.2	6624.7	7082.5	7186.5	6928.8	6913.8	6832.0	6410.4	3370.3
50°	5221.3	5248.1	5610.0	6391.7	7248.3	7948.4	7739.5	7695.1	7221.1	6617.4	3406.9
52.5°	4401.7	4434.2	4728.2	5658.3	6935.7	8288.3	8507.0	8470.0	7506.5	6633.6	3413.0
55°	3108.5	3147.9	3458.9	4336.6	5945.0	8017.9	8779.0	8768.0	7743.5	6590.6	3426.0
57.5°	1746.9	1775.4	2110.8	2780.0	4354.1	6983.7	8494.8	8567.6	7886.6	6515.7	3445.5
60°	775.7	783.4	957.0	1383.9	2549.1	5337.2	7681.3	7804.1	7763.8	6415.7	3478.4
62.5°	430.1	423.6	423.6	575.3	1107.8	3304.0	6263.7	6466.6	7239.8	6297.4	3480.1
65°	337.0	330.9	313.4	315.9	422.0	1466.4	4337.5	4698.1	6244.6	5950.6	3363.0
67.5°	285.8	280.5	263.0	256.1	262.2	483.8	2383.2	2757.6	4738.3	5049.3	2912.9
70°	241.5	237.8	228.9	220.3	204.9	239.1	911.9	1166.4	2919.8	3358.9	1988.4
72.5°	194.3	192.7	196.0	188.6	169.9	159.4	311.8	377.7	1311.5	1498.9	819.2
75°	167.5	166.7	168.3	161.0	139.9	111.0	158.6	173.2	370.0	366.7	165.9
77.5°	109.0	110.2	139.4	136.2	120.3	74.0	82.1	88.6	112.2	84.2	50.4
80°	69.5	68.7	70.7	113.0	108.1	56.5	41.1	43.1	54.1	41.5	24.4
82.5°	42.3	41.5	46.3	52.9	54.5	39.4	25.2	25.6	33.7	26.8	13.0
85°	3.7	4.9	28.1	26.0	18.7	12.2	12.2	13.0	17.9	15.9	7.3
87.5°	0.0	0.0	4.9	7.3	4.1	4.5	4.5	4.9	6.9	6.9	3.7
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°	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4
2.5°	2110.0	2067.7	1982.3	1900.2	1830.7	1763.6	1687.2	1611.6	1576.2	1562.0	1547.3
5°	2113.6	2026.6	1850.6	1673.4	1489.6	1324.1	1183.1	1038.3	966.0	934.2	919.6
7.5°	2118.5	1986.0	1701.4	1403.8	1107.8	883.4	687.5	561.4	507.0	498.4	477.3
10°	2119.3	1936.8	1528.2	1106.2	742.8	532.6	409.8	344.8	320.8	316.7	309.8
12.5°	2121.0	1878.7	1335.9	819.2	495.2	356.1	296.4	274.8	268.3	267.9	267.9
15°	2125.8	1817.7	1136.3	590.3	355.7	282.1	260.2	251.7	249.2	250.4	250.0
17.5°	2125.8	1745.7	940.3	439.9	287.4	253.7	241.5	235.8	235.0	236.2	236.6
20°	2110.4	1658.3	760.7	342.3	254.9	235.4	224.4	219.1	217.1	217.9	218.3
22.5°	2073.4	1551.0	614.3	283.4	233.4	218.7	206.9	198.8	195.5	196.0	196.0
25°	2015.7	1423.7	480.5	245.1	215.9	200.8	187.0	177.7	175.6	175.2	176.0
27.5°	1941.7	1283.1	382.6	215.9	195.1	180.9	167.1	159.4	157.7	158.1	158.6
30°	1868.9	1137.1	301.7	191.1	172.0	158.6	148.0	144.3	144.3	145.5	146.0
32.5°	1802.2	996.9	238.6	169.5	151.2	139.0	132.9	132.5	134.6	135.4	135.8
35°	1744.9	867.2	197.6	152.9	135.0	124.4	122.4	124.0	126.4	128.1	128.5
37.5°	1704.2	751.3	172.8	139.0	122.4	113.8	113.4	116.7	119.9	123.6	124.4
40°	1687.2	653.3	155.7	126.8	112.2	105.7	104.5	109.0	115.1	120.3	121.2
42.5°	1672.9	573.2	141.1	115.1	104.1	94.7	94.3	100.0	107.3	112.6	113.8
45°	1660.7	509.0	127.7	102.5	93.5	81.3	82.5	89.8	95.5	101.2	102.5
47.5°	1635.5	456.1	113.0	89.0	77.2	69.5	72.0	78.5	82.9	91.5	92.7
50°	1590.4	413.1	98.0	72.8	63.0	60.2	63.8	68.3	74.0	81.3	82.1
52.5°	1559.9	380.5	85.0	61.0	52.0	52.9	56.5	58.1	61.4	64.2	63.4
55°	1542.4	362.6	74.4	52.9	44.3	46.8	47.6	45.5	43.9	41.1	39.8
57.5°	1540.4	346.4	66.3	45.9	39.0	40.2	37.4	30.5	24.8	21.5	20.7
60°	1537.2	326.5	59.8	38.6	34.6	32.9	26.8	16.7	11.8	11.0	11.0
62.5°	1501.8	295.6	54.9	32.5	29.3	24.8	15.4	7.7	6.5	6.9	6.9
65°	1389.2	252.5	50.0	26.4	23.2	17.9	7.7	4.5	2.4	2.8	2.8
67.5°	1181.0	201.2	44.7	20.3	17.5	11.4	4.5	2.0	0.0	0.0	0.0
70°	790.7	124.8	37.8	14.2	11.4	6.9	3.3	0.4	0.0	0.0	0.0
72.5°	303.3	67.5	30.5	8.5	7.3	4.9	2.0	0.0	0.0	0.0	0.0
75°	68.3	44.3	21.1	6.1	5.3	3.3	0.8	0.0	0.0	0.0	0.0
77.5°	26.0	32.1	12.2	4.1	3.7	2.0	0.0	0.0	0.0	0.0	0.0
80°	12.6	19.1	5.7	2.4	2.0	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	6.5	7.3	2.4	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	3.7	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.2	0.4	0.4	0.0	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)