

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: P453470

Luminaire Tested: **GLAN-SA4C-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 20752 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 213
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

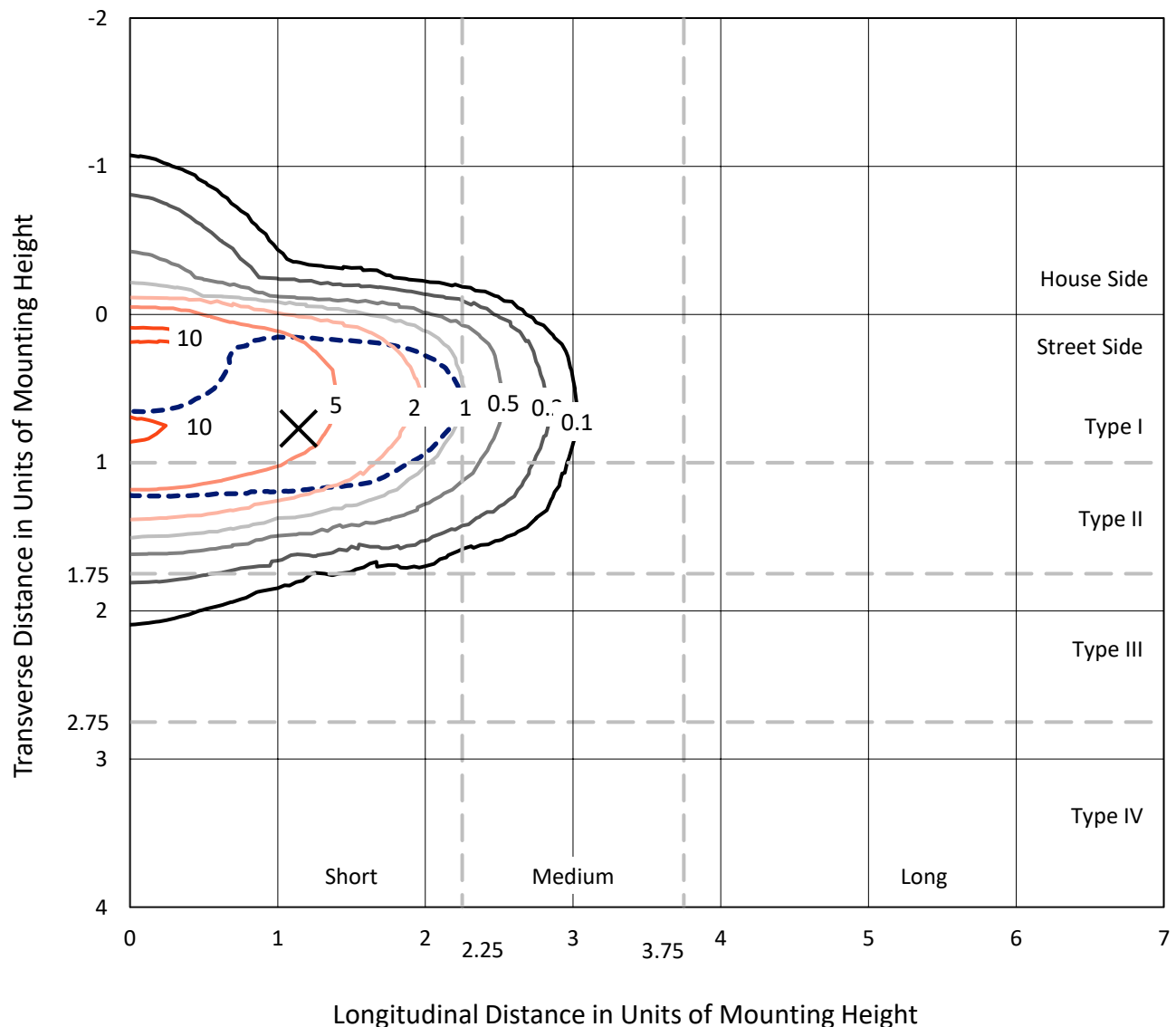


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Iso-Footcandle Lines of Horizontal Illumination

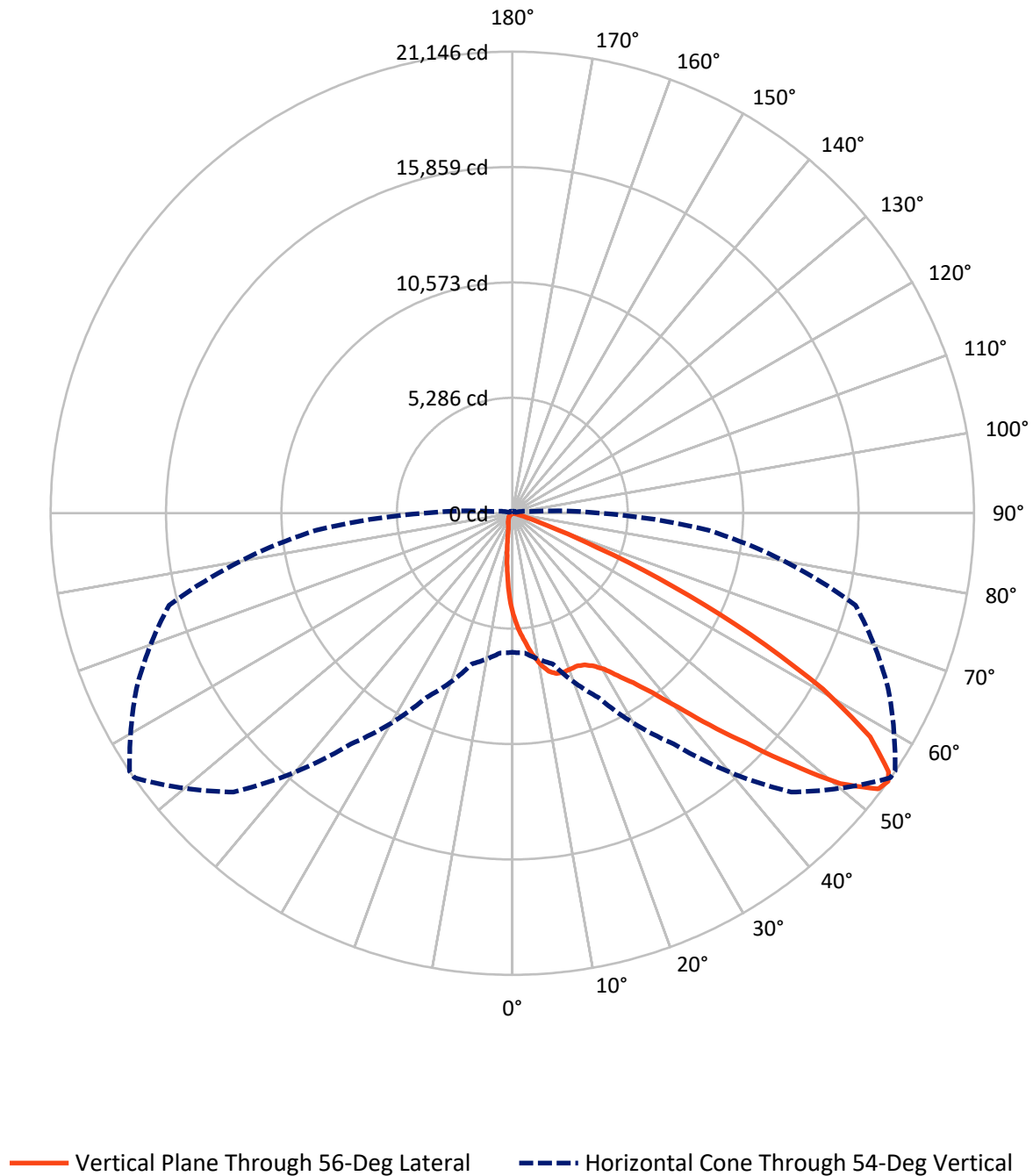
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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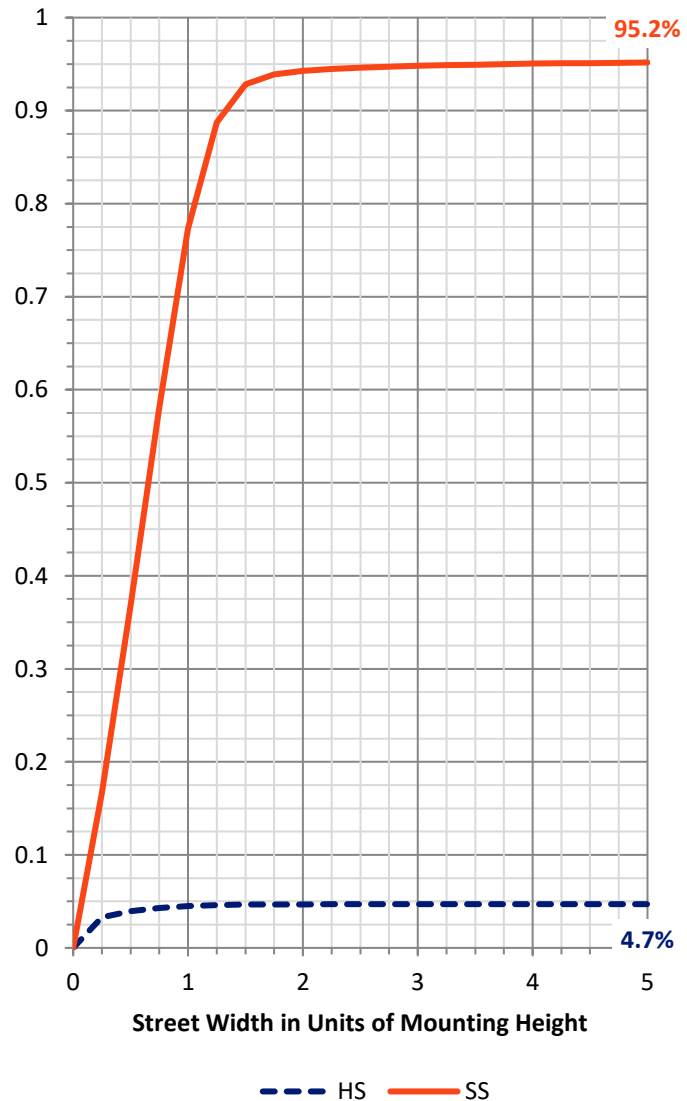
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	981.3	0.0	981.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	19770.7	0.0	19770.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	20752.0	0.0	20752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.4	2.0
10°-20°	1101.4	5.3
20°-30°	1907.5	9.2
30°-40°	3292.6	15.9
40°-50°	5604.1	27.0
50°-60°	5546.0	26.7
60°-70°	2531.3	12.2
70°-80°	325.1	1.6
80°-90°	36.6	0.2
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°	20752.0	100.0
0°-180°	20752.0	100.0

Coefficient of Utilization



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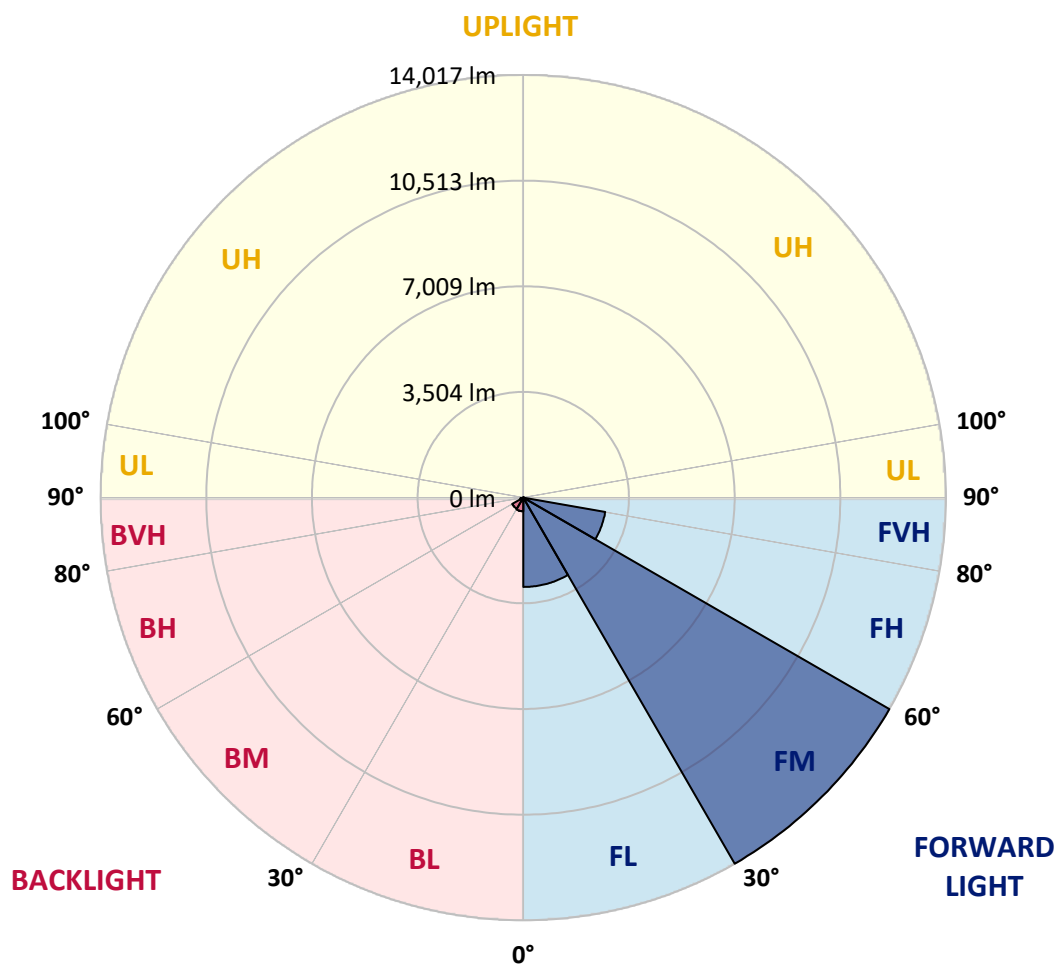
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2962.4	14.3			
FM	(30°-60°)	14017.4	67.5			
FH	(60°-80°)	2758.1	13.3			G2/5000
FVH	(80°-90°)	32.7	0.2			G1/100
BL	(0°-30°)	453.8	2.2	B1/500		
BM	(30°-60°)	425.3	2.0	B1/1000		
BH	(60°-80°)	98.3	0.5	B0/110		G0/110
BVH	(80°-90°)	3.9	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4610.5	4610.5	4610.5	4610.5	4610.5	4610.5	4610.5	4610.5	4610.5	4610.5	4610.5
2.5°	5859.4	5818.8	5762.8	5719.4	5617.2	5470.2	5314.7	5314.7	5164.9	4956.3	4743.5
5°	6758.2	6731.6	6677.0	6565.0	6450.2	6244.4	5932.2	5877.6	5610.2	5232.1	4834.5
7.5°	7123.7	7136.3	7139.1	7109.7	7055.1	6852.0	6542.6	6504.8	6077.8	5571.0	4953.5
10°	6773.6	6835.2	6895.4	7017.3	7189.5	7238.5	7063.5	7024.3	6604.2	5914.0	5082.3
12.5°	6252.8	6286.4	6320.0	6511.8	6857.6	7253.9	7437.3	7435.9	7080.3	6255.6	5246.1
15°	6010.6	6040.0	6042.8	6128.2	6427.8	7004.7	7596.9	7617.9	7545.1	6677.0	5422.6
17.5°	6061.0	6084.8	6065.2	6086.2	6243.0	6730.2	7578.7	7648.7	7921.7	7081.7	5582.2
20°	6390.0	6436.2	6360.6	6301.8	6349.4	6657.4	7517.1	7615.1	8187.7	7476.5	5727.8
22.5°	6980.9	7006.1	6910.8	6749.8	6665.8	6810.0	7500.3	7596.9	8414.5	7799.9	5811.8
25°	7637.5	7629.1	7524.1	7343.5	7167.1	7118.1	7610.9	7697.7	8602.2	8091.1	5837.0
27.5°	8294.1	8319.3	8142.9	7918.9	7707.5	7580.1	7858.7	7923.1	8813.6	8422.9	5867.8
30°	9057.2	9016.6	8843.0	8586.8	8344.5	8166.7	8257.7	8275.9	9104.8	8862.6	5949.0
32.5°	10049.8	9937.8	9743.2	9295.2	9121.6	8820.6	8843.0	8865.4	9459.0	9298.0	6047.0
35°	11396.7	11391.1	11010.3	10406.9	9984.0	9610.2	9512.2	9530.4	9995.2	9944.8	6264.0
37.5°	13018.0	13040.4	12606.4	11998.8	11220.3	10626.7	10425.1	10427.9	10810.1	10838.1	6594.4
40°	14338.3	14397.1	14138.1	13727.9	12959.2	12031.0	11692.2	11661.4	11955.4	11920.4	7066.3
42.5°	14906.8	14961.4	15058.0	15200.8	14778.0	14012.1	13212.7	13254.7	13344.3	13099.2	7595.5
45°	14628.1	14715.0	15094.4	15976.4	16374.1	16116.4	15163.0	15016.0	14636.5	14380.3	8127.5
47.5°	13467.5	13678.9	14313.1	15781.8	17173.5	18044.4	17363.9	17169.3	15930.2	15315.6	8466.3
50°	11559.1	11571.7	12455.2	14332.7	16759.1	19261.0	19611.1	19465.5	17135.7	15840.6	8637.2
52.5°	8379.5	8655.4	9464.6	11639.0	14964.2	19076.2	21043.4	20983.2	18379.0	16109.4	8883.6
54°	6370.4	6423.6	7143.3	9300.8	12901.8	18061.2	21131.6	21145.6	18996.4	16271.9	9029.2
55°	5222.3	5094.9	5851.0	7923.1	11494.7	17163.7	20843.1	20910.4	19273.6	16355.9	9137.0
57.5°	2475.4	2476.8	3055.0	4179.3	7199.3	13327.5	19080.4	19318.4	19304.4	16500.1	9468.8
60°	1253.1	1261.5	1388.9	1929.3	3556.2	8859.8	15776.2	16343.3	17819.0	16521.1	9578.0
62.5°	876.5	866.7	845.7	928.3	1496.7	4502.7	11745.4	12238.2	15139.2	15721.6	9230.8
65°	750.4	729.4	670.6	658.0	756.0	1793.5	7315.5	8119.1	11559.1	13613.1	8242.3
67.5°	641.2	632.8	579.6	547.4	534.8	781.3	3774.6	4197.5	7900.7	9785.2	6243.0
70°	544.6	540.4	508.2	467.6	432.6	467.6	1400.1	1734.7	4403.3	5268.5	2945.8
72.5°	442.4	446.6	452.2	400.4	364.0	331.8	597.8	695.8	1842.5	1883.1	1030.5
75°	387.8	383.6	383.6	348.6	303.8	246.4	329.0	354.2	564.2	523.6	239.4
77.5°	273.0	263.2	308.0	287.0	253.4	175.0	187.6	198.8	233.8	200.2	112.0
80°	189.0	189.0	197.4	257.6	228.2	127.4	114.8	123.2	138.6	119.0	64.4
82.5°	106.4	109.2	128.8	137.2	133.0	85.4	75.6	77.0	92.4	81.2	40.6
85°	12.6	21.0	74.2	72.8	54.6	37.8	42.0	43.4	57.4	50.4	23.8
87.5°	1.4	2.8	15.4	19.6	14.0	15.4	15.4	15.4	19.6	22.4	16.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4610.5	4610.5	4610.5	4610.5	4610.5	4610.5	4610.5	4610.5	4610.5	4610.5	4610.5
2.5°	4628.7	4522.3	4268.9	3974.9	3787.2	3482.0	3224.4	3038.2	2992.0	2902.4	2929.0
5°	4623.1	4401.9	3885.3	3339.2	2756.8	2322.8	1999.3	1744.5	1632.5	1558.3	1506.5
7.5°	4625.9	4280.1	3451.2	2581.8	1885.9	1460.3	1160.7	1005.3	901.7	858.3	863.9
10°	4634.3	4142.9	2947.2	1912.5	1272.7	943.7	760.2	686.0	651.0	645.4	644.0
12.5°	4653.9	3993.1	2465.6	1419.7	890.5	686.0	616.0	590.8	579.6	579.6	575.4
15°	4674.9	3827.8	2065.1	1055.7	686.0	589.4	557.2	544.6	537.6	537.6	536.2
17.5°	4674.9	3637.4	1691.3	819.1	590.8	541.8	516.6	499.8	494.2	494.2	492.8
20°	4645.5	3416.2	1359.5	659.4	536.2	497.0	471.8	453.6	446.6	443.8	442.4
22.5°	4543.3	3120.8	1082.3	567.0	491.4	457.8	425.6	404.6	399.0	396.2	397.6
25°	4361.3	2787.6	856.9	498.4	450.8	410.2	382.2	366.8	361.2	361.2	362.6
27.5°	4173.7	2439.0	679.0	446.6	401.8	365.4	343.0	333.2	331.8	336.0	337.4
30°	4000.1	2088.9	550.2	404.6	358.4	327.6	312.2	309.4	309.4	310.8	312.2
32.5°	3806.8	1782.3	460.6	368.2	323.4	296.8	288.4	288.4	291.2	291.2	294.0
35°	3685.0	1519.1	404.6	333.2	296.8	274.4	268.8	270.2	274.4	280.0	282.8
37.5°	3619.2	1309.1	368.2	305.2	271.6	256.2	250.6	253.4	263.2	273.0	274.4
40°	3624.8	1150.9	338.8	281.4	252.0	235.2	231.0	239.4	249.2	259.0	260.4
42.5°	3686.4	1033.3	310.8	253.4	235.2	211.4	210.0	218.4	222.6	232.4	233.8
45°	3759.2	947.9	281.4	224.0	204.4	183.4	184.8	191.8	197.4	212.8	215.6
47.5°	3781.6	889.1	247.8	190.4	168.0	161.0	162.4	166.6	177.8	191.8	193.2
50°	3806.8	852.7	215.6	161.0	142.8	141.4	142.8	145.6	152.6	158.2	156.8
52.5°	3914.7	851.3	189.0	140.0	121.8	124.6	126.0	124.6	119.0	110.6	107.8
54°	4015.5	855.5	176.4	130.2	112.0	116.2	114.8	107.8	93.8	85.4	81.2
55°	4096.7	859.7	169.4	123.2	106.4	107.8	109.2	95.2	77.0	68.6	65.8
57.5°	4256.3	849.9	152.6	107.8	93.8	88.2	86.8	63.0	42.0	36.4	33.6
60°	4176.5	767.2	138.6	92.4	79.8	71.4	58.8	35.0	21.0	15.4	15.4
62.5°	3862.8	651.0	123.2	75.6	65.8	54.6	30.8	19.6	9.8	5.6	4.2
65°	3455.4	547.4	110.6	60.2	51.8	35.0	16.8	12.6	4.2	0.0	0.0
67.5°	2569.2	406.0	93.8	47.6	39.2	22.4	11.2	7.0	1.4	0.0	0.0
70°	1190.1	247.8	79.8	36.4	28.0	16.8	8.4	4.2	0.0	0.0	0.0
72.5°	341.6	155.4	65.8	26.6	19.6	14.0	7.0	2.8	1.4	0.0	0.0
75°	119.0	124.6	49.0	19.6	15.4	9.8	5.6	2.8	1.4	0.0	0.0
77.5°	71.4	100.8	30.8	16.8	12.6	8.4	5.6	2.8	1.4	1.4	0.0
80°	40.6	67.2	19.6	14.0	11.2	7.0	4.2	2.8	1.4	1.4	0.0
82.5°	22.4	32.2	15.4	12.6	9.8	7.0	4.2	2.8	1.4	1.4	1.4
85°	18.2	16.8	12.6	11.2	8.4	5.6	4.2	1.4	0.0	0.0	0.0
87.5°	14.0	11.2	11.2	11.2	8.4	5.6	4.2	1.4	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)