

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: P323772

Luminaire Tested: **GAN-SA8C-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323772
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-SA8C-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH 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: 38475 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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

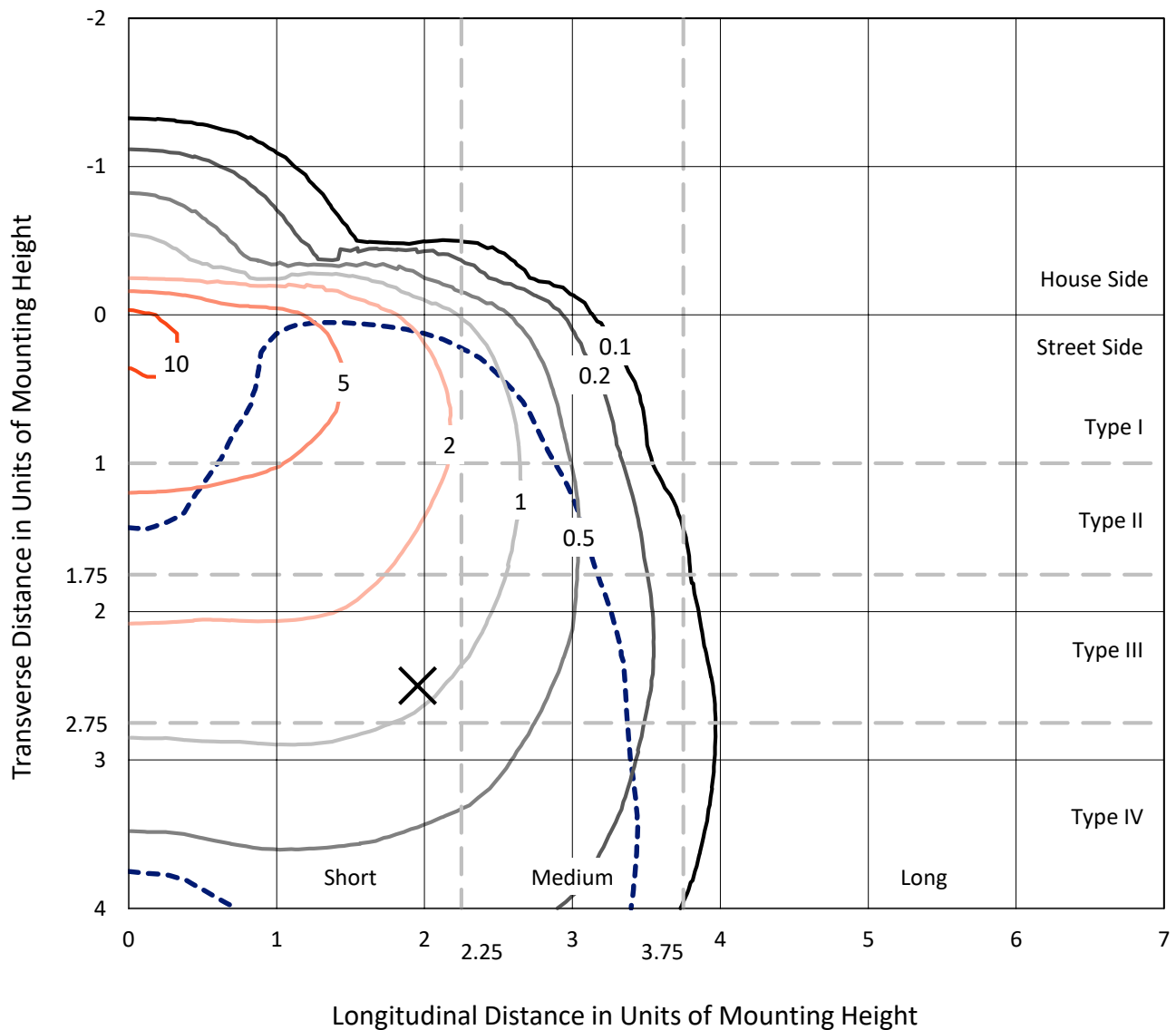


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Iso-Footcandle Lines of Horizontal Illumination

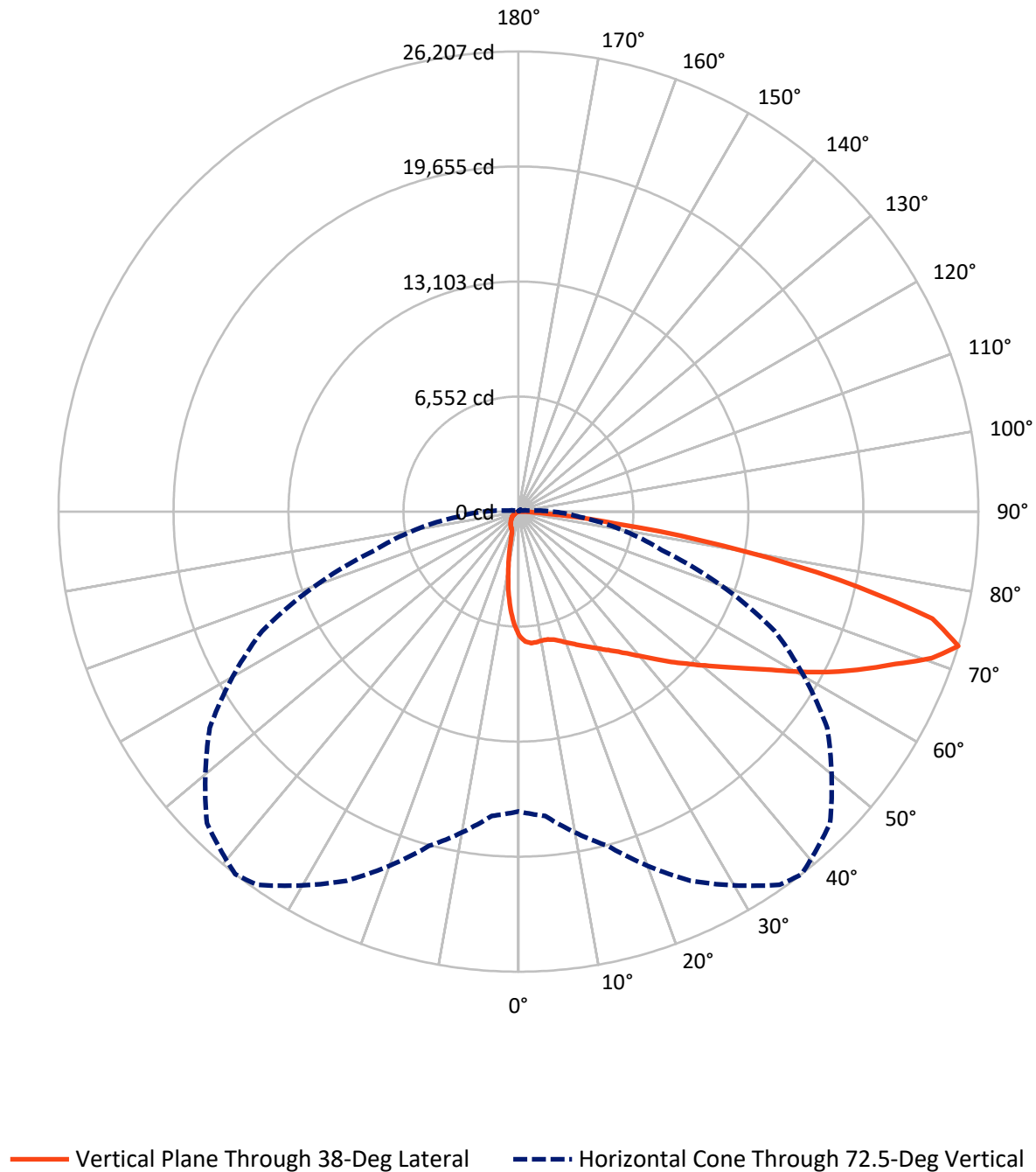
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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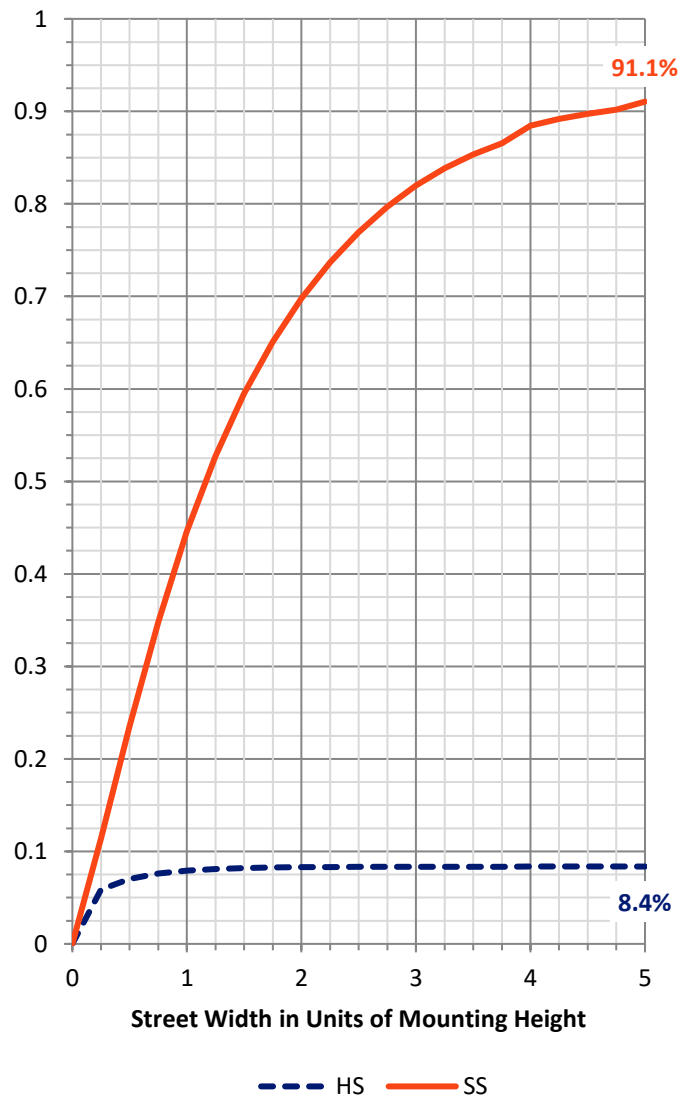
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3237.8	0.0	3237.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	35237.2	0.0	35237.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	38475.0	0.0	38475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.0	1.6
10°-20°	1474.4	3.8
20°-30°	2345.0	6.1
30°-40°	3525.4	9.2
40°-50°	5378.3	14.0
50°-60°	7601.3	19.8
60°-70°	9534.6	24.8
70°-80°	7129.2	18.5
80°-90°	884.0	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°	38475.0	100.0
0°-180°	38475.0	100.0

Coefficient of Utilization



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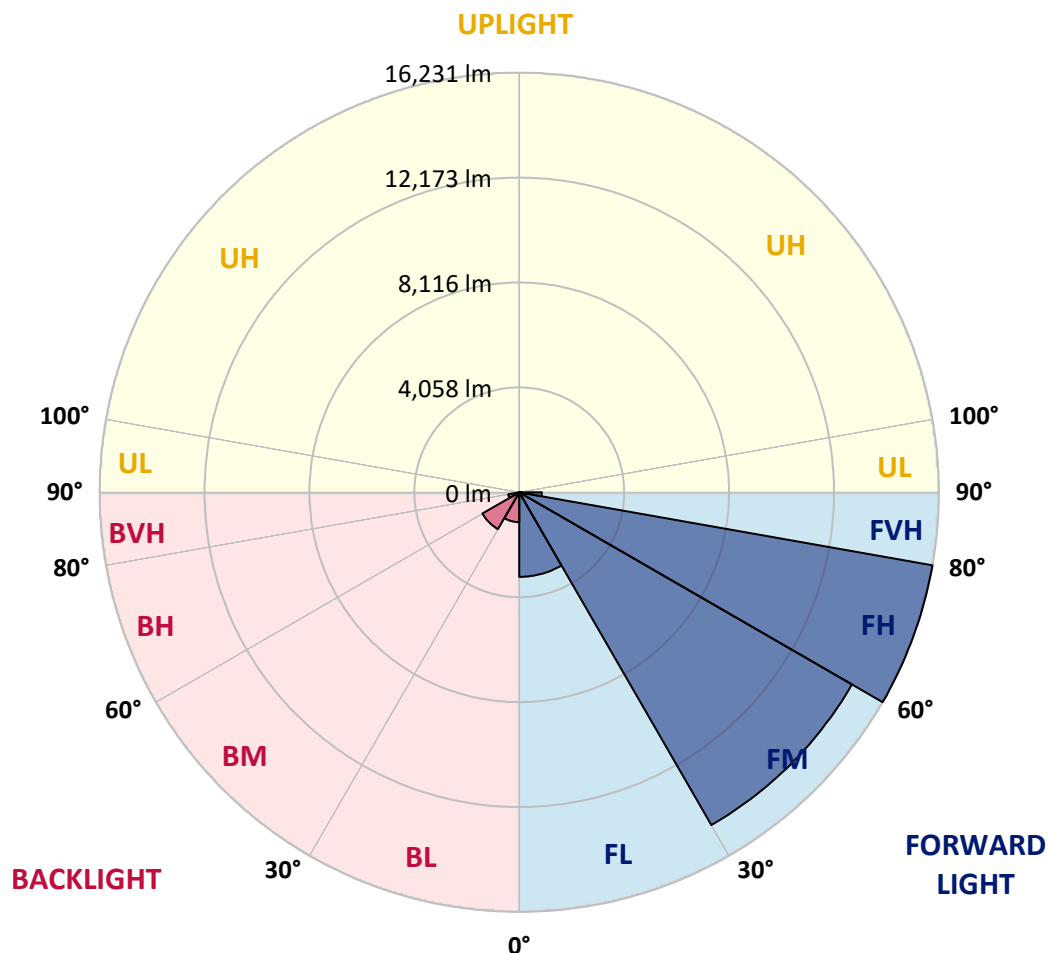
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3269.4	8.5			
FM	(30°-60°)	14860.7	38.6			
FH	(60°-80°)	16231.2	42.2			G5
FVH	(80°-90°)	875.8	2.3			G5
BL	(0°-30°)	1152.9	3.0	B3/2500		
BM	(30°-60°)	1644.2	4.3	B2/2500		
BH	(60°-80°)	432.5	1.1	B1/500		G1/500
BVH	(80°-90°)	8.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4
2.5°	7510.0	7511.6	7494.1	7465.3	7428.6	7409.4	7377.4	7326.3	7272.0	7174.5	7069.0
5°	7663.4	7663.4	7641.1	7602.7	7543.6	7526.0	7465.3	7383.8	7272.0	7113.8	6936.4
7.5°	7647.5	7650.7	7620.3	7580.4	7521.2	7505.3	7431.8	7340.7	7201.7	7009.9	6783.0
10°	7564.4	7572.4	7548.4	7529.2	7474.9	7457.3	7388.6	7297.5	7158.5	6954.0	6693.5
12.5°	7479.7	7487.7	7495.7	7513.2	7479.7	7473.3	7419.0	7342.3	7209.6	6997.1	6703.1
15°	7425.4	7441.3	7498.9	7567.6	7575.6	7569.2	7534.0	7462.1	7327.9	7107.4	6771.8
17.5°	7425.4	7450.9	7570.8	7701.8	7748.1	7752.9	7722.6	7621.9	7462.1	7225.6	6835.7
20°	7487.7	7522.8	7709.8	7895.1	7971.8	7971.8	7912.7	7772.1	7585.2	7332.7	6878.9
22.5°	7647.5	7693.8	7928.7	8142.8	8224.3	8206.7	8126.8	7922.3	7713.0	7454.1	6933.2
25°	7962.3	7997.4	8241.9	8457.6	8507.1	8467.2	8366.5	8104.5	7876.0	7618.7	7032.3
27.5°	8368.1	8372.9	8625.4	8807.5	8777.2	8750.0	8623.8	8333.0	8110.9	7853.6	7203.3
30°	8813.9	8813.9	9036.0	9175.0	9082.4	9060.0	8933.8	8609.4	8411.3	8173.2	7446.1
32.5°	9245.4	9264.5	9445.1	9533.0	9429.1	9406.7	9283.7	8959.3	8810.7	8660.5	7824.8
35°	9662.4	9676.8	9847.8	9895.7	9796.6	9803.0	9715.1	9440.3	9384.4	9365.2	8395.3
37.5°	10066.7	10069.9	10244.0	10274.4	10224.9	10279.2	10287.2	10044.3	10148.2	10303.1	9199.0
40°	10435.8	10439.0	10611.5	10689.8	10774.5	10844.8	10907.1	10777.7	11121.3	11480.8	10156.1
42.5°	10731.4	10764.9	10983.8	11132.5	11356.2	11490.4	11659.8	11653.4	12279.7	12819.8	11313.0
45°	10991.8	11049.4	11354.6	11615.0	11998.5	12212.6	12477.9	12685.6	13583.6	14310.6	12484.3
47.5°	11335.4	11389.7	11738.0	12164.7	12676.0	12957.2	13396.7	13845.7	15016.9	15774.3	13628.3
50°	11819.5	11795.6	12139.1	12751.1	13407.8	13776.9	14403.3	15076.0	16439.0	17049.4	14301.1
52.5°	12335.7	12326.1	12580.1	13388.7	14270.7	14702.1	15529.8	16347.9	17798.8	17928.2	14609.4
55°	12974.8	12906.1	13120.2	14115.7	15294.9	15758.3	16733.0	17607.1	18882.2	18423.6	14764.4
57.5°	13644.3	13530.9	13735.4	14925.8	16450.2	16998.3	18065.7	18834.2	19602.8	18762.3	14762.8
60°	14336.2	14202.0	14444.9	15938.9	17885.1	18519.5	19510.2	19663.5	20275.5	18933.3	14654.2
62.5°	14914.6	14834.7	15195.9	17022.2	19487.8	20111.0	20601.5	20417.7	20842.8	19065.9	14400.1
65°	15526.6	15531.4	16114.6	18286.2	21191.1	21611.4	21652.9	21395.7	21317.4	19038.8	13540.5
67.5°	16354.3	16431.0	17404.1	20002.3	22848.1	23172.5	23169.3	22455.0	21664.1	17958.6	11634.2
70°	17230.0	17410.5	18890.2	21966.1	24656.9	24986.1	24816.7	23129.4	20398.6	14521.6	8233.9
72.5°	17083.0	17396.2	19716.3	23204.5	25956.0	26206.9	25105.9	21472.4	16122.6	8440.0	3505.8
75°	13179.3	13542.1	18078.4	21977.3	24593.0	24367.7	21571.4	16709.1	8810.7	2355.3	789.4
77.5°	6962.0	7155.3	11942.6	16742.6	19176.2	18704.8	15195.9	9269.3	2686.0	583.2	354.7
80°	3646.4	3691.1	5204.3	9499.4	11835.5	11838.7	9005.7	4071.4	1107.3	298.8	238.1
82.5°	1952.6	1991.0	2750.0	4389.4	6201.4	5621.4	3448.2	2240.2	643.9	169.4	228.5
85°	469.8	477.8	1559.5	2005.3	2438.4	1741.7	1024.2	1880.7	174.2	99.1	185.4
87.5°	180.6	183.8	578.4	867.7	621.6	402.7	479.4	701.5	22.4	38.3	28.8
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°	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4	7075.4
2.5°	7005.1	6963.6	6861.3	6731.9	6616.8	6533.7	6409.1	6327.6	6273.3	6271.7	6250.9
5°	6827.8	6743.1	6522.6	6260.5	6022.4	5808.3	5555.8	5356.1	5207.5	5183.5	5132.4
7.5°	6637.6	6498.6	6159.8	5750.8	5351.3	4945.4	4474.1	4181.7	3930.8	3811.0	3798.2
10°	6521.0	6326.0	5845.1	5253.8	4627.5	3967.5	3350.8	2924.1	2615.7	2527.9	2462.3
12.5°	6497.0	6239.7	5602.2	4787.3	3892.4	3020.0	2337.7	1883.9	1637.8	1559.5	1538.8
15°	6521.0	6199.8	5397.6	4325.5	3147.8	2142.8	1569.1	1305.5	1212.8	1190.4	1188.8
17.5°	6535.3	6151.8	5166.0	3812.5	2425.6	1530.8	1201.6	1124.9	1110.5	1108.9	1112.1
20°	6533.7	6078.3	4889.5	3240.5	1804.0	1203.2	1086.6	1070.6	1067.4	1069.0	1067.4
22.5°	6522.6	5992.1	4585.9	2650.9	1363.0	1075.4	1037.0	1027.4	1025.8	1025.8	1025.8
25°	6543.3	5923.4	4252.0	2086.8	1123.3	1016.3	992.3	984.3	982.7	982.7	979.5
27.5°	6618.4	5885.0	3886.1	1605.9	1014.7	963.5	944.3	942.8	938.0	936.4	939.6
30°	6739.9	5885.0	3485.0	1249.5	949.1	909.2	894.8	891.6	890.0	888.4	890.0
32.5°	6954.0	5929.7	3047.2	1038.6	886.8	848.5	838.9	843.7	838.9	838.9	838.9
35°	7340.7	6064.0	2588.6	906.0	821.3	789.4	779.8	786.2	783.0	783.0	781.4
37.5°	7904.7	6313.2	2126.8	826.1	763.8	730.2	717.4	727.0	723.8	723.8	722.2
40°	8591.8	6676.0	1687.4	765.4	707.9	672.7	661.5	666.3	658.3	658.3	661.5
42.5°	9440.3	7136.1	1303.9	706.3	651.9	618.4	612.0	607.2	592.8	584.8	586.4
45°	10383.0	7615.5	1016.3	648.7	599.2	572.0	562.5	549.7	525.7	509.7	511.3
47.5°	11225.1	7984.6	826.1	592.8	551.3	530.5	516.1	492.1	457.0	437.8	439.4
50°	11667.7	8040.5	703.1	536.9	506.5	485.8	465.0	428.2	386.7	365.9	364.3
52.5°	11781.2	7778.5	612.0	485.8	461.8	437.8	410.7	361.1	314.8	292.4	289.2
55°	11822.7	7379.0	530.5	437.8	413.9	386.7	351.5	295.6	252.5	230.1	228.5
57.5°	11685.3	6783.0	466.6	394.7	365.9	332.4	289.2	236.5	194.9	177.4	177.4
60°	11380.1	5976.1	417.0	348.3	316.4	278.0	233.3	183.8	145.4	131.0	131.0
62.5°	10771.3	4931.1	370.7	300.4	270.0	230.1	188.6	139.0	102.3	94.3	95.9
65°	9622.5	3740.6	324.4	257.3	230.1	190.1	147.0	99.1	68.7	68.7	71.9
67.5°	7847.2	2598.2	276.4	218.9	198.1	155.0	111.9	68.7	47.9	54.3	60.7
70°	5194.7	1457.3	236.5	180.6	169.4	123.0	83.1	46.3	38.3	51.1	62.3
72.5°	1960.6	567.2	198.1	145.4	147.0	94.3	59.1	35.2	35.2	55.9	73.5
75°	546.5	278.0	142.2	107.1	115.0	68.7	43.1	30.4	33.6	63.9	86.3
77.5°	321.2	204.5	92.7	62.3	78.3	47.9	28.8	24.0	28.8	54.3	83.1
80°	258.9	108.7	54.3	32.0	43.1	27.2	19.2	14.4	8.0	20.8	43.1
82.5°	258.9	65.5	25.6	22.4	22.4	14.4	9.6	6.4	1.6	0.0	11.2
85°	174.2	27.2	16.0	14.4	11.2	4.8	3.2	1.6	0.0	0.0	0.0
87.5°	28.8	11.2	6.4	3.2	1.6	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)