

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: P192576

Luminaire Tested: **GAN-AF-08-LED-U-5NQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-5NQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31357.4 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G2

Input Watts (W): 257
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: 28.75 FT

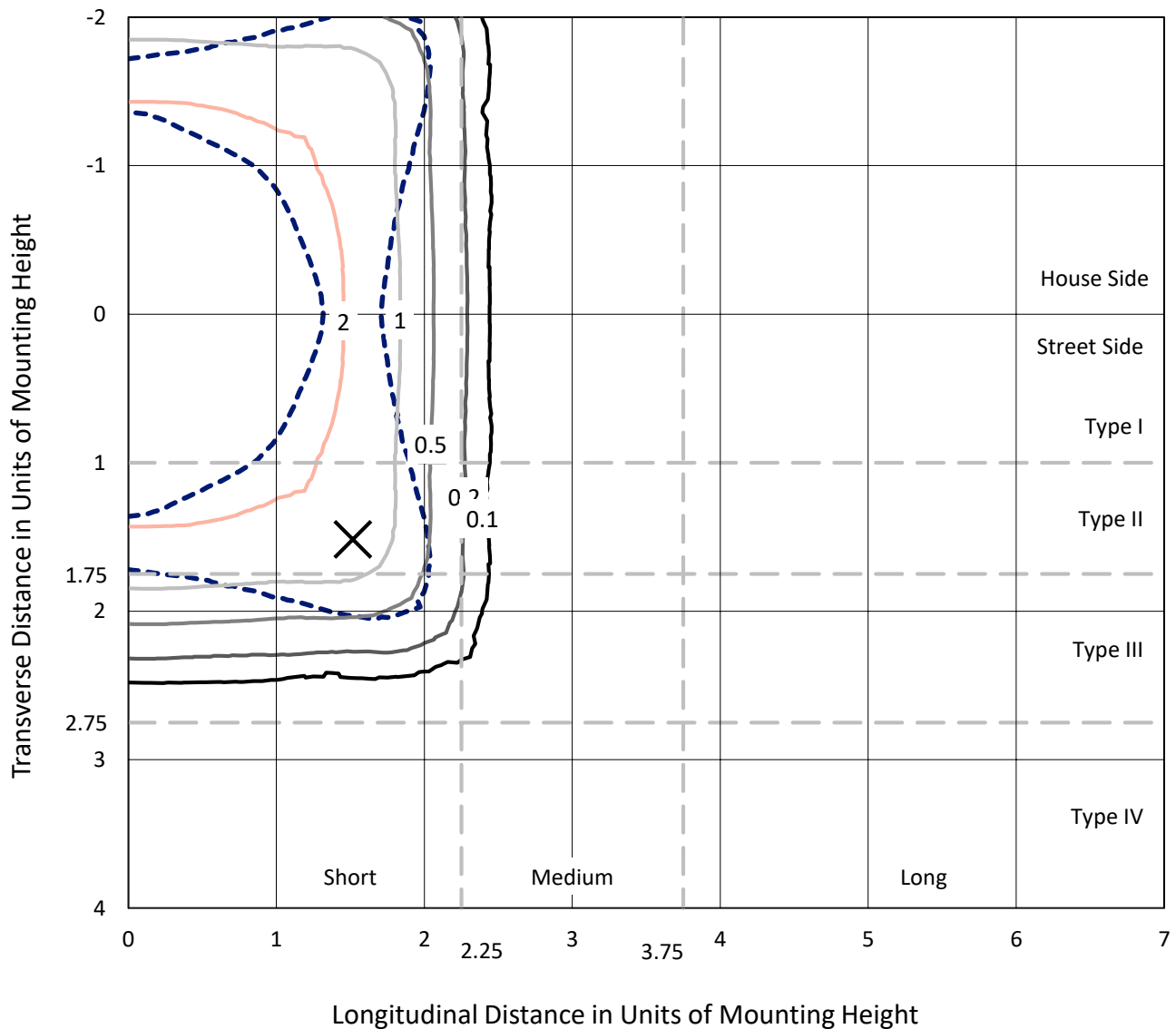


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

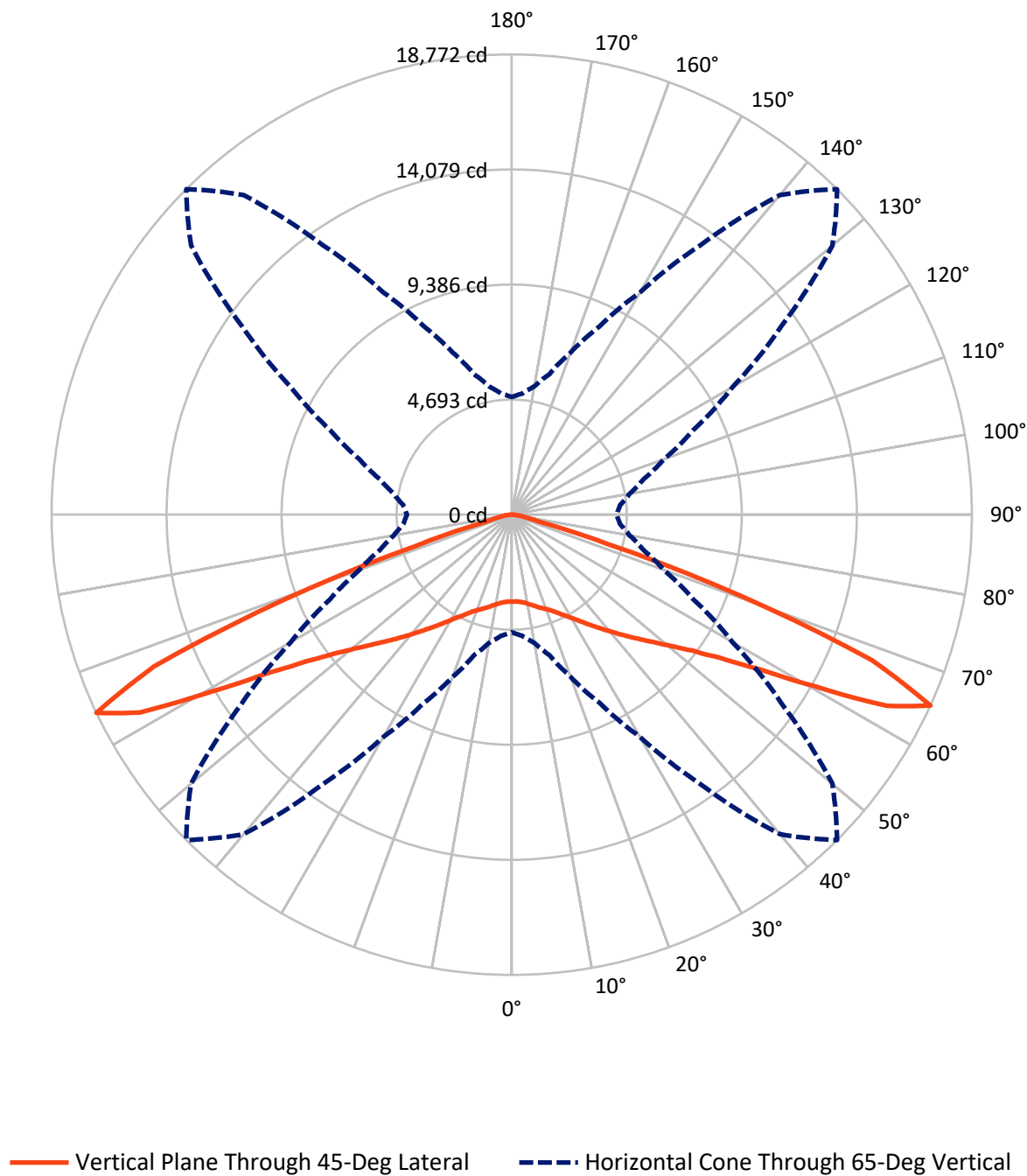


Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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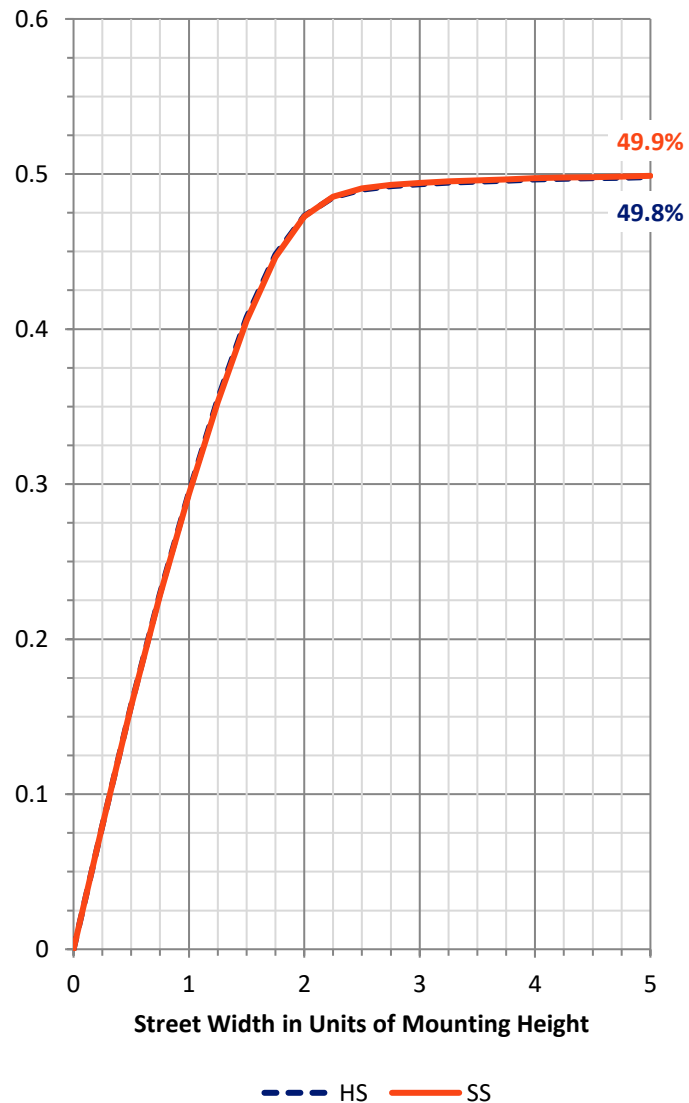
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15678.7	0.0	15678.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15678.7	0.0	15678.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	31357.4	0.0	31357.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.8	1.1
10°-20°	1109.1	3.5
20°-30°	2073.9	6.6
30°-40°	3507.5	11.2
40°-50°	5735.1	18.3
50°-60°	9119.7	29.1
60°-70°	8243.6	26.3
70°-80°	1043.3	3.3
80°-90°	179.5	0.6
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°	31357.4	100.0
0°-180°	31357.4	100.0

Coefficient of Utilization



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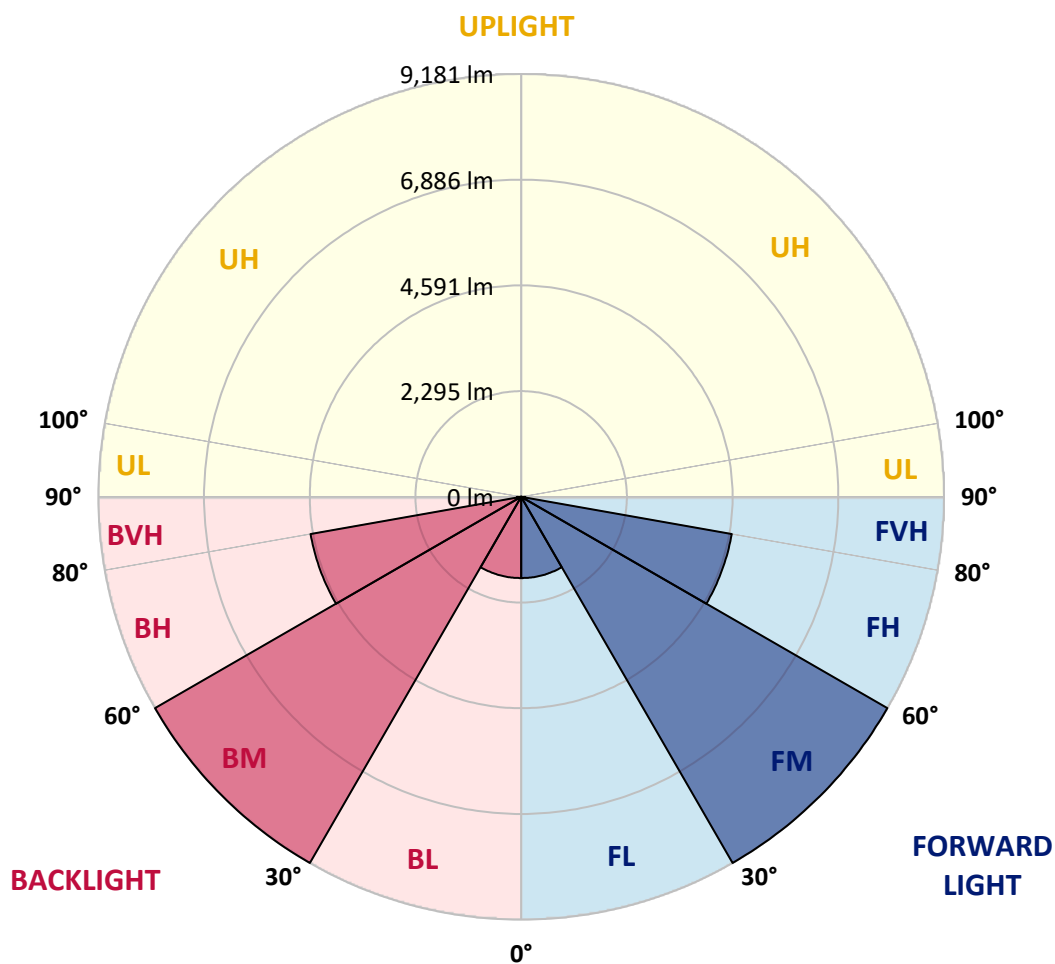
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1764.4	5.6			
FM	(30°-60°)	9181.1	29.3			
FH	(60°-80°)	4643.4	14.8			G2/5000
FVH	(80°-90°)	89.7	0.3			G1/100
BL	(0°-30°)	1764.4	5.6	B3/2500		
BM	(30°-60°)	9181.1	29.3	B5		
BH	(60°-80°)	4643.4	14.8	B4/5000		G2/5000
BVH	(80°-90°)	89.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3548.0	3548.0	3548.0	3548.0	3548.0	3548.0	3548.0	3548.0	3548.0	3548.0	3548.0
2.5°	3551.0	3553.9	3556.9	3553.9	3556.9	3552.6	3549.7	3553.9	3549.7	3545.1	3548.0
5°	3581.8	3583.3	3583.3	3578.9	3583.3	3580.4	3576.0	3581.8	3577.4	3573.1	3576.0
7.5°	3633.3	3639.2	3634.7	3630.3	3633.3	3630.3	3627.4	3628.8	3627.4	3623.0	3624.4
10°	3702.4	3706.7	3703.8	3702.4	3705.2	3703.8	3700.8	3699.4	3700.8	3696.5	3696.5
12.5°	3786.1	3784.5	3783.1	3784.5	3789.0	3789.0	3787.5	3789.0	3791.9	3793.4	3790.4
15°	3868.3	3871.2	3871.2	3871.2	3880.1	3887.3	3891.7	3894.6	3900.5	3902.0	3896.1
17.5°	3971.0	3971.0	3969.6	3971.0	3979.9	3991.6	3996.0	4001.9	4007.7	4012.2	4004.8
20°	4085.6	4088.6	4088.6	4091.4	4103.2	4116.5	4116.5	4119.4	4116.5	4119.4	4115.0
22.5°	4225.2	4233.9	4233.9	4235.4	4247.1	4263.3	4258.9	4263.3	4255.9	4261.8	4255.9
25°	4407.2	4420.4	4417.5	4417.5	4426.3	4436.6	4438.1	4446.9	4445.4	4452.8	4448.4
27.5°	4612.8	4633.3	4639.2	4637.8	4643.6	4654.0	4656.8	4667.1	4661.3	4667.1	4664.3
30°	4859.6	4868.4	4880.1	4884.6	4891.9	4902.1	4902.1	4903.7	4896.2	4905.0	4909.4
32.5°	5115.1	5131.3	5143.0	5169.4	5182.6	5190.1	5188.5	5191.5	5184.2	5195.9	5204.7
35°	5452.9	5464.6	5483.7	5504.3	5521.9	5520.5	5516.1	5517.5	5517.5	5527.8	5536.6
37.5°	5859.7	5862.7	5887.6	5916.9	5925.7	5916.9	5890.5	5884.6	5871.4	5884.6	5899.4
40°	6289.9	6300.2	6350.1	6369.3	6373.6	6357.5	6319.3	6297.2	6267.9	6284.0	6304.7
42.5°	6740.9	6761.4	6806.9	6840.7	6855.4	6845.1	6792.2	6758.4	6720.2	6729.1	6749.6
45°	7240.2	7265.0	7329.7	7362.0	7390.0	7373.8	7322.3	7270.9	7210.8	7215.2	7247.5
47.5°	7798.2	7823.2	7906.9	7961.1	7975.9	7972.9	7915.8	7845.2	7763.0	7760.0	7787.9
50°	8423.8	8448.8	8553.1	8636.7	8679.3	8674.9	8607.5	8507.6	8407.6	8409.1	8444.4
52.5°	9034.7	9065.6	9174.3	9318.1	9401.9	9462.1	9421.0	9327.0	9205.1	9208.1	9240.4
55°	9607.5	9658.8	9783.7	9979.0	10134.7	10303.5	10352.1	10349.1	10275.8	10296.3	10328.6
57.5°	9885.0	9961.3	10153.8	10462.2	10779.4	11123.0	11413.9	11631.2	11723.7	11863.3	11830.9
60°	9359.2	9481.2	9764.6	10218.5	10845.5	11562.2	12330.2	13080.7	13721.0	14204.1	13926.6
62.5°	7663.1	7821.7	8165.4	8746.9	9695.6	10842.6	12312.7	14086.7	16019.4	17185.4	16352.8
65°	4795.0	4959.4	5308.9	5931.5	7041.9	8467.9	10462.2	13402.3	17013.7	18771.5	17076.7
67.5°	1869.5	1959.1	2148.6	2546.5	3380.7	4649.5	6651.2	9987.8	14307.0	15847.5	14041.1
70°	937.0	945.7	981.0	1054.5	1233.6	1602.2	2437.9	4630.4	8205.1	9910.1	7909.9
72.5°	677.0	678.5	696.1	728.4	785.7	867.9	1026.5	1417.2	2668.4	4078.3	2501.1
75°	518.4	524.3	534.6	552.2	583.0	624.2	681.4	816.5	1011.8	1173.5	986.9
77.5°	399.5	411.3	418.6	434.8	453.8	481.8	497.9	549.2	638.8	672.6	662.3
80°	304.0	314.2	330.4	343.6	356.8	370.1	364.2	387.8	434.8	462.6	448.0
82.5°	193.8	205.6	252.6	264.3	270.2	279.0	268.8	270.2	290.7	308.4	290.7
85°	124.9	132.2	160.1	174.9	176.2	182.1	177.6	167.3	167.3	152.8	171.9
87.5°	57.3	58.8	72.0	85.2	88.1	79.3	77.8	75.0	60.2	57.3	61.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3548.0	3548.0	3548.0	3548.0	3548.0	3548.0	3548.0	3548.0
2.5°	3546.7	3549.7	3551.0	3555.4	3556.9	3556.9	3558.3	3561.3
5°	3574.5	3578.9	3580.4	3586.3	3587.7	3586.3	3589.2	3590.7
7.5°	3624.4	3631.8	3634.7	3640.6	3636.2	3642.0	3643.6	3643.6
10°	3697.9	3705.2	3706.7	3712.6	3709.7	3712.6	3712.6	3709.7
12.5°	3794.8	3796.3	3791.9	3796.3	3790.4	3793.4	3789.0	3786.1
15°	3902.0	3897.6	3887.3	3887.3	3878.4	3880.1	3878.4	3877.1
17.5°	4006.3	3997.5	3990.1	3987.2	3979.9	3978.4	3974.0	3974.0
20°	4120.8	4116.5	4112.1	4106.2	4098.9	4091.4	4090.0	4093.0
22.5°	4258.9	4257.4	4257.4	4254.4	4244.1	4236.8	4232.4	4232.4
25°	4443.9	4430.7	4430.7	4429.3	4424.9	4420.4	4411.7	4416.0
27.5°	4652.5	4645.1	4651.0	4649.5	4645.1	4645.1	4639.2	4639.2
30°	4909.4	4906.5	4915.3	4908.0	4893.2	4891.9	4886.0	4878.7
32.5°	5206.1	5203.3	5216.5	5207.7	5184.2	5170.9	5159.1	5153.3
35°	5536.6	5538.1	5554.2	5548.3	5521.9	5513.1	5492.5	5489.6
37.5°	5897.9	5921.3	5949.2	5955.1	5933.1	5927.2	5905.3	5893.5
40°	6322.3	6353.1	6395.7	6406.0	6382.5	6378.1	6347.2	6331.0
42.5°	6774.6	6827.5	6880.4	6889.2	6865.7	6842.2	6812.8	6801.1
45°	7279.8	7343.0	7411.9	7429.6	7394.3	7366.5	7328.2	7328.2
47.5°	7846.7	7926.0	8003.8	8052.3	8019.9	7990.5	7945.0	7915.8
50°	8516.3	8625.0	8726.3	8776.2	8724.9	8669.0	8589.8	8563.3
52.5°	9356.4	9473.9	9562.0	9535.5	9456.3	9378.4	9291.7	9256.6
55°	10428.5	10468.1	10468.1	10368.2	10209.6	10078.9	9942.4	9896.8
57.5°	11769.3	11616.6	11381.5	11083.5	10708.9	10382.9	10162.6	10058.4
60°	13345.0	12610.8	11781.0	10966.0	10296.3	9744.1	9416.6	9266.9
62.5°	14395.1	12474.1	10811.8	9503.3	8539.8	7874.6	7422.2	7246.0
65°	13453.7	10403.4	8177.1	6611.6	5561.6	4884.6	4436.6	4272.1
67.5°	9854.2	6519.1	4354.3	3120.8	2286.6	1824.0	1640.4	1564.0
70°	4423.4	2295.4	1406.9	1098.5	947.3	869.3	835.7	824.0
72.5°	1333.5	964.9	813.6	734.3	674.1	635.9	608.0	605.1
75°	804.8	669.6	594.8	547.8	509.5	478.8	464.1	459.7
77.5°	562.4	492.0	456.7	423.0	393.6	370.1	356.8	346.6
80°	395.1	361.3	345.2	326.0	306.9	284.9	265.8	257.0
82.5°	264.3	257.0	257.0	245.3	229.1	208.5	170.3	161.6
85°	170.3	169.0	171.9	167.3	155.7	133.7	110.2	104.3
87.5°	79.3	80.8	89.6	88.1	85.2	70.5	55.8	52.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)