

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: P193377

Luminaire Tested: **GAN-AF-09-LED-U-5NQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193377
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-09-LED-U-5NQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 29511 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G2

Input Watts (W): 290
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

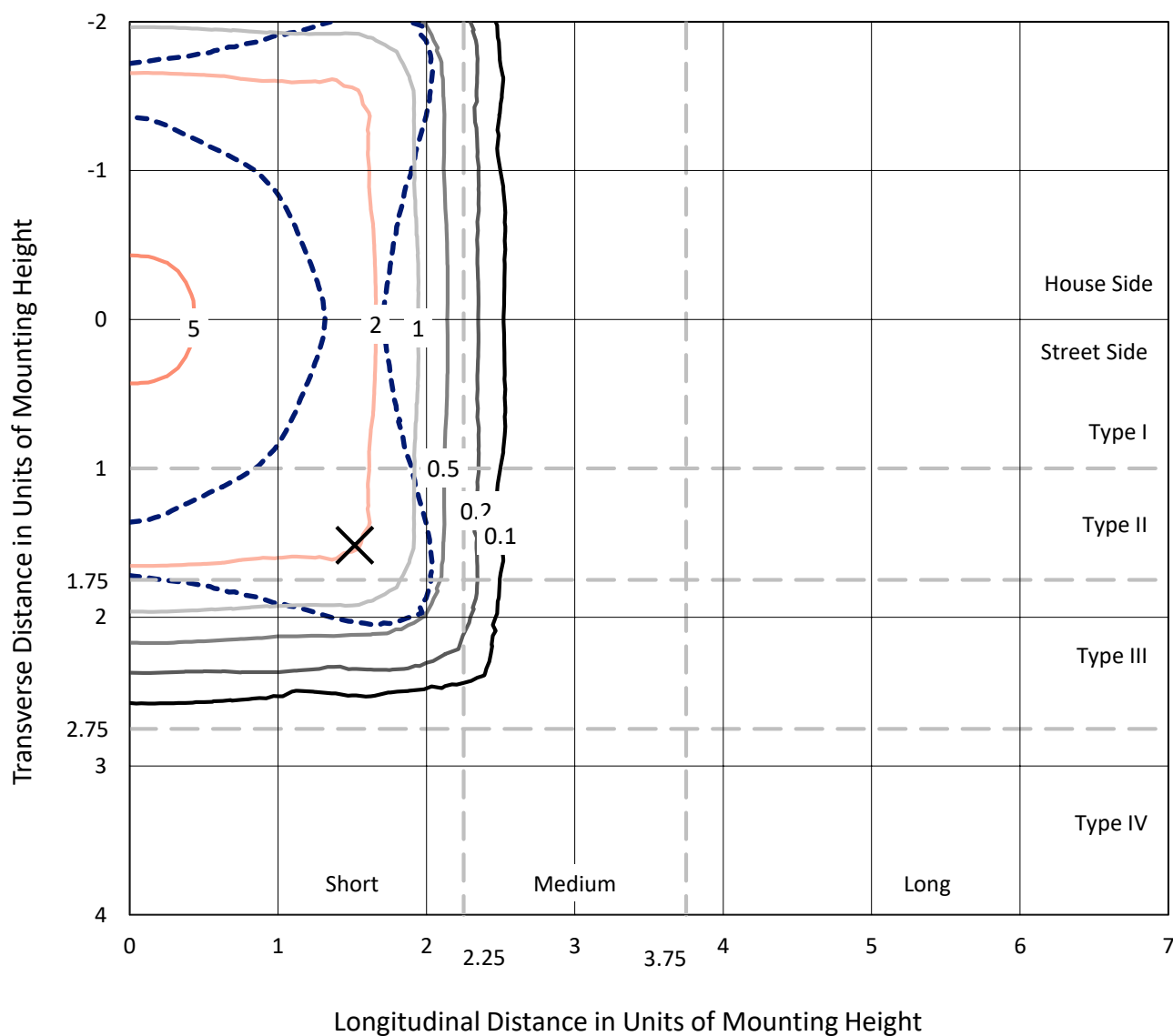


REPORT NUMBER: P193377

CATALOG NUMBER: GAN-AF-09-LED-U-5NQ-8030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

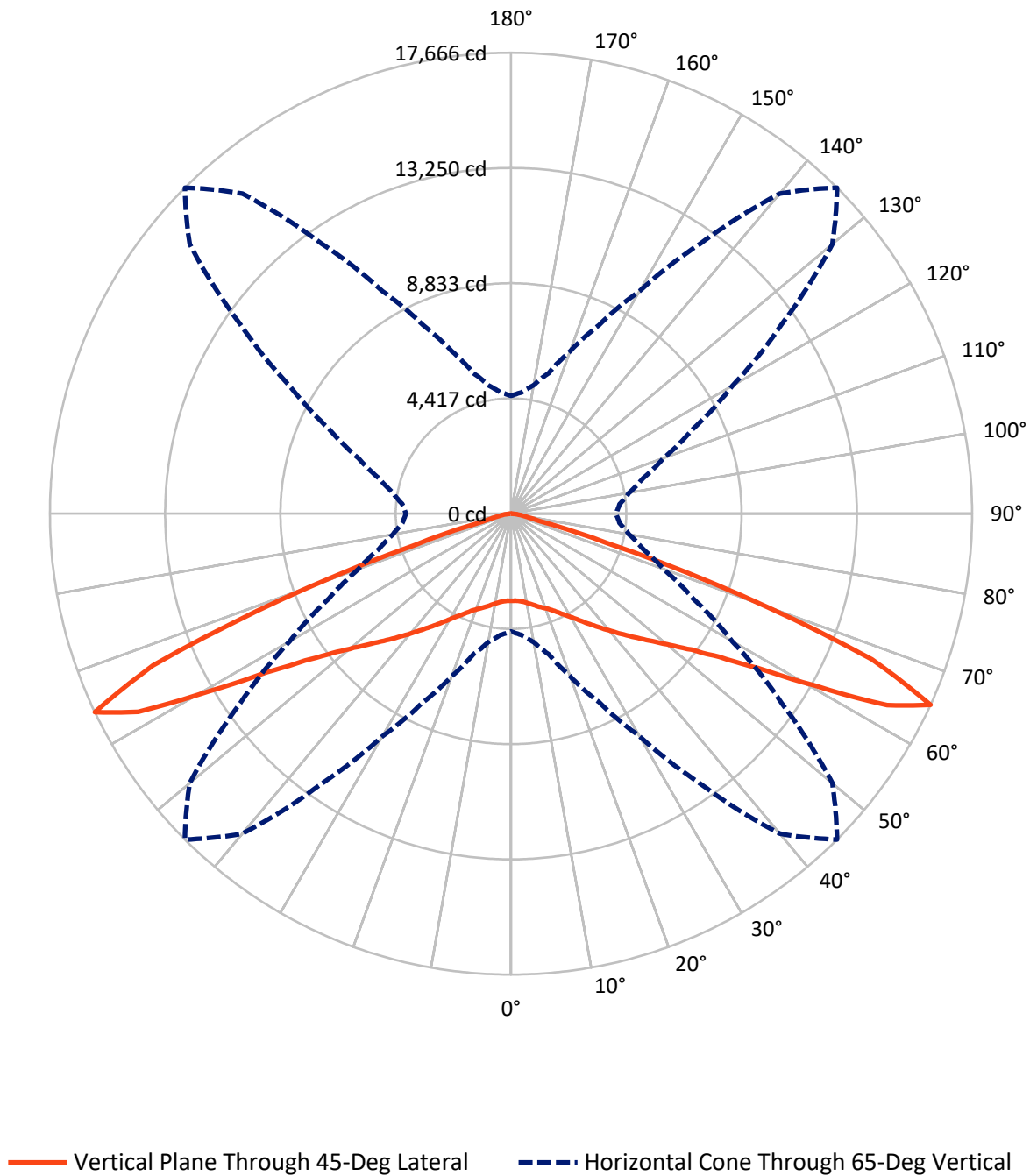


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P193377

CATALOG NUMBER: GAN-AF-09-LED-U-5NQ-8030-600

Luminous Intensity Polar Plot



REPORT NUMBER: P193377

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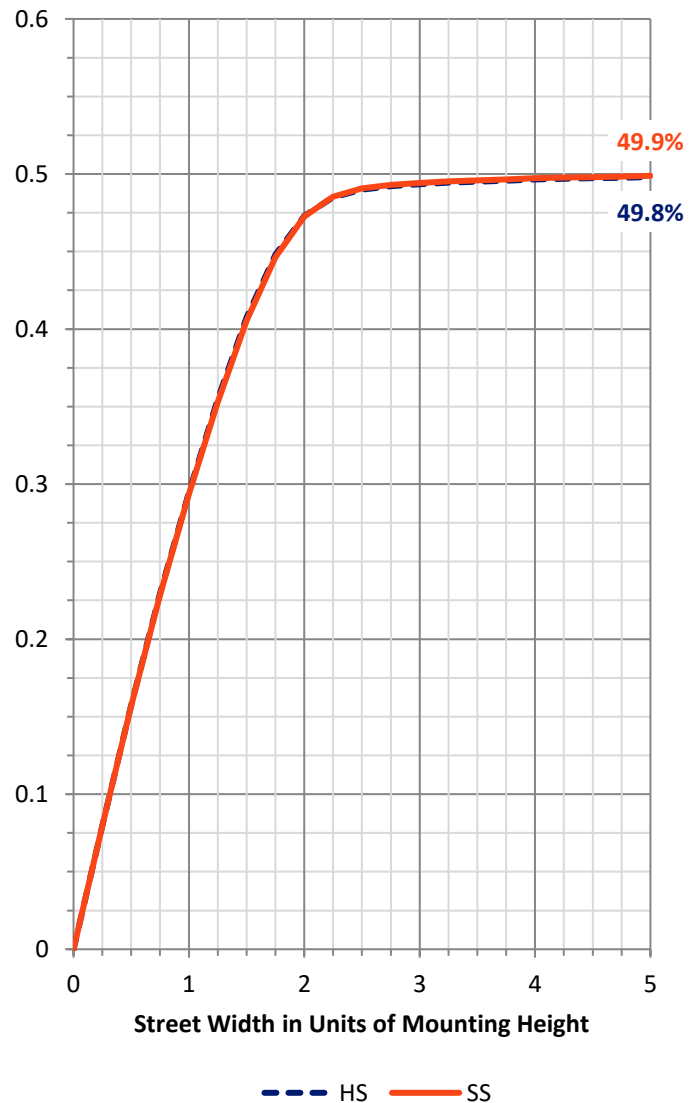
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14755.5	0.0	14755.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14755.5	0.0	14755.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29511.0	0.0	29511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.5	1.1
10°-20°	1043.8	3.5
20°-30°	1951.7	6.6
30°-40°	3300.9	11.2
40°-50°	5397.4	18.3
50°-60°	8582.7	29.1
60°-70°	7758.2	26.3
70°-80°	981.8	3.3
80°-90°	168.9	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°	29511.0	100.0
0°-180°	29511.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193377

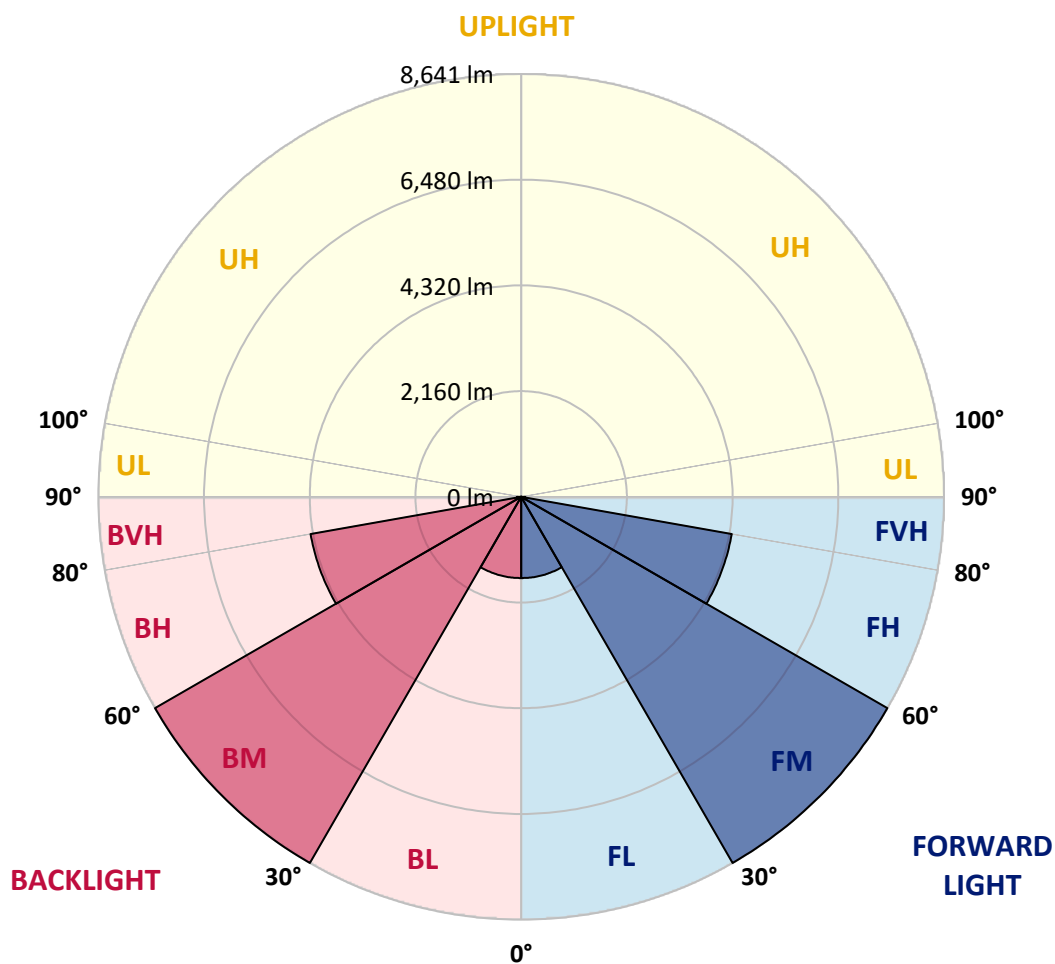
CATALOG NUMBER: GAN-AF-09-LED-U-5NQ-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1660.5	5.6			
FM	(30°-60°)	8640.5	29.3			
FH	(60°-80°)	4370.0	14.8			G2/5000
FVH	(80°-90°)	84.4	0.3			G1/100
BL	(0°-30°)	1660.5	5.6	B3/2500		
BM	(30°-60°)	8640.5	29.3	B5		
BH	(60°-80°)	4370.0	14.8	B4/5000		G2/5000
BVH	(80°-90°)	84.4	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





REPORT NUMBER: P193377

CATALOG NUMBER: GAN-AF-09-LED-U-5NQ-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3339.2	3339.2	3339.2	3339.2	3339.2	3339.2	3339.2	3339.2	3339.2	3339.2	3339.2
2.5°	3341.9	3344.7	3347.5	3344.7	3347.5	3343.3	3340.6	3344.7	3340.6	3336.4	3339.2
5°	3371.0	3372.4	3372.4	3368.2	3372.4	3369.6	3365.4	3371.0	3366.8	3362.7	3365.4
7.5°	3419.3	3424.9	3420.7	3416.6	3419.3	3416.6	3413.8	3415.2	3413.8	3409.7	3411.1
10°	3484.3	3488.5	3485.7	3484.3	3487.1	3485.7	3482.9	3481.5	3482.9	3478.8	3478.8
12.5°	3563.1	3561.7	3560.3	3561.7	3565.9	3565.9	3564.5	3565.9	3568.6	3570.0	3567.2
15°	3640.5	3643.3	3643.3	3643.3	3651.5	3658.5	3662.6	3665.4	3670.9	3672.3	3666.7
17.5°	3737.2	3737.2	3735.9	3737.2	3745.5	3756.6	3760.7	3766.3	3771.8	3775.9	3769.0
20°	3845.0	3847.8	3847.8	3850.6	3861.6	3874.1	3874.1	3876.8	3874.1	3876.8	3872.7
22.5°	3976.3	3984.6	3984.6	3986.0	3997.1	4012.3	4008.1	4012.3	4005.4	4010.9	4005.4
25°	4147.7	4160.2	4157.4	4157.4	4165.7	4175.4	4176.7	4185.0	4183.7	4190.6	4186.4
27.5°	4341.2	4360.6	4366.1	4364.7	4370.2	4379.9	4382.7	4392.4	4386.8	4392.4	4389.6
30°	4573.4	4581.7	4592.8	4596.9	4603.8	4613.5	4613.5	4614.9	4608.0	4616.3	4620.4
32.5°	4813.9	4829.1	4840.2	4865.0	4877.5	4884.4	4883.0	4885.8	4878.9	4889.9	4898.2
35°	5131.8	5142.8	5160.8	5180.2	5196.7	5195.4	5191.2	5192.6	5192.6	5202.3	5210.6
37.5°	5514.6	5517.4	5540.9	5568.5	5576.8	5568.5	5543.7	5538.1	5525.7	5538.1	5551.9
40°	5919.6	5929.3	5976.3	5994.2	5998.4	5983.2	5947.2	5926.5	5898.9	5914.1	5933.4
42.5°	6343.9	6363.2	6406.1	6437.9	6451.7	6442.0	6392.3	6360.5	6324.5	6332.8	6352.2
45°	6813.8	6837.3	6898.1	6928.5	6954.8	6939.6	6891.2	6842.8	6786.2	6790.3	6820.7
47.5°	7339.0	7362.5	7441.3	7492.4	7506.3	7503.5	7449.6	7383.2	7305.9	7303.1	7329.3
50°	7927.8	7951.3	8049.4	8128.2	8168.3	8164.1	8100.6	8006.6	7912.6	7914.0	7947.2
52.5°	8502.8	8531.8	8634.1	8769.5	8848.3	8905.0	8866.3	8777.8	8663.1	8665.8	8696.3
55°	9041.8	9090.2	9207.6	9391.5	9538.0	9696.9	9742.5	9739.8	9670.6	9690.0	9720.4
57.5°	9303.0	9374.9	9555.9	9846.2	10144.7	10468.1	10741.8	10946.3	11033.4	11164.7	11134.3
60°	8808.2	8922.9	9189.7	9616.7	10206.9	10881.4	11604.2	12310.5	12913.1	13367.8	13106.6
62.5°	7211.9	7361.1	7684.5	8231.9	9124.7	10204.1	11587.6	13257.2	15076.1	16173.5	15389.8
65°	4512.6	4667.4	4996.3	5582.4	6627.2	7969.3	9846.2	12613.2	16011.8	17666.2	16071.2
67.5°	1759.4	1843.7	2022.0	2396.6	3181.6	4375.8	6259.6	9399.8	13464.5	14914.4	13214.4
70°	881.8	890.1	923.3	992.4	1161.0	1507.9	2294.3	4357.8	7721.9	9326.5	7444.1
72.5°	637.2	638.5	655.1	685.5	739.4	816.8	966.1	1333.7	2511.3	3838.1	2353.7
75°	487.9	493.4	503.1	519.7	548.7	587.4	641.3	768.5	952.3	1104.3	928.8
77.5°	375.9	387.0	393.9	409.1	427.1	453.3	468.5	516.9	601.2	633.0	623.3
80°	286.1	295.8	311.0	323.4	335.9	348.3	342.8	364.9	409.1	435.4	421.5
82.5°	182.4	193.5	237.7	248.8	254.3	262.6	252.9	254.3	273.7	290.2	273.7
85°	117.5	124.4	150.7	164.5	165.9	171.4	167.2	157.6	157.6	143.7	161.7
87.5°	53.9	55.3	67.7	80.2	82.9	74.6	73.3	70.5	56.7	53.9	58.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193377

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3339.2	3339.2	3339.2	3339.2	3339.2	3339.2	3339.2	3339.2
2.5°	3337.8	3340.6	3341.9	3346.1	3347.5	3347.5	3348.9	3351.6
5°	3364.1	3368.2	3369.6	3375.1	3376.5	3375.1	3377.9	3379.3
7.5°	3411.1	3418.0	3420.7	3426.3	3422.1	3427.6	3429.0	3429.0
10°	3480.2	3487.1	3488.5	3494.0	3491.2	3494.0	3494.0	3491.2
12.5°	3571.4	3572.8	3568.6	3572.8	3567.2	3570.0	3565.9	3563.1
15°	3672.3	3668.1	3658.5	3658.5	3650.2	3651.5	3650.2	3648.8
17.5°	3770.4	3762.1	3755.2	3752.4	3745.5	3744.1	3740.0	3740.0
20°	3878.2	3874.1	3869.9	3864.4	3857.5	3850.6	3849.2	3851.9
22.5°	4008.1	4006.7	4006.7	4004.0	3994.3	3987.4	3983.3	3983.3
25°	4182.3	4169.8	4169.8	4168.5	4164.3	4160.2	4151.9	4156.0
27.5°	4378.5	4371.6	4377.2	4375.8	4371.6	4371.6	4366.1	4366.1
30°	4620.4	4617.6	4625.9	4619.0	4605.2	4603.8	4598.3	4591.4
32.5°	4899.6	4896.8	4909.3	4901.0	4878.9	4866.4	4855.4	4849.8
35°	5210.6	5211.9	5227.2	5221.6	5196.7	5188.5	5169.1	5166.3
37.5°	5550.6	5572.7	5598.9	5604.5	5583.7	5578.2	5557.5	5546.4
40°	5950.0	5979.0	6019.1	6028.8	6006.7	6002.5	5973.5	5958.3
42.5°	6375.7	6425.4	6475.2	6483.5	6461.4	6439.3	6411.6	6400.6
45°	6851.1	6910.6	6975.5	6992.1	6958.9	6932.7	6896.7	6896.7
47.5°	7384.6	7459.3	7532.5	7578.1	7547.7	7520.1	7477.2	7449.6
50°	8014.9	8117.2	8212.5	8259.5	8211.1	8158.6	8084.0	8059.1
52.5°	8805.4	8916.0	8998.9	8974.1	8899.4	8826.2	8744.6	8711.5
55°	9814.4	9851.7	9851.7	9757.7	9608.5	9485.4	9356.9	9314.1
57.5°	11076.3	10932.5	10711.4	10430.8	10078.4	9771.5	9564.2	9466.1
60°	12559.3	11868.2	11087.3	10320.2	9690.0	9170.3	8862.1	8721.1
62.5°	13547.5	11739.7	10175.1	8943.7	8037.0	7410.9	6985.2	6819.3
65°	12661.5	9790.9	7695.6	6222.3	5234.1	4596.9	4175.4	4020.6
67.5°	9274.0	6135.2	4098.0	2937.0	2152.0	1716.6	1543.8	1472.0
70°	4162.9	2160.2	1324.1	1033.8	891.5	818.2	786.4	775.4
72.5°	1255.0	908.0	765.7	691.1	634.4	598.5	572.2	569.4
75°	757.4	630.2	559.8	515.5	479.6	450.6	436.7	432.6
77.5°	529.3	463.0	429.8	398.0	370.4	348.3	335.9	326.2
80°	371.8	340.0	324.8	306.8	288.9	268.1	250.2	241.9
82.5°	248.8	241.9	241.9	230.8	215.6	196.3	160.3	152.0
85°	160.3	158.9	161.7	157.6	146.5	125.8	103.7	98.1
87.5°	74.6	76.0	84.3	82.9	80.2	66.3	52.5	49.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)