

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: P193408

Luminaire Tested: **GAN-AF-10-LED-U-5NQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193408
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-10-LED-U-5NQ-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54402 lumens
Efficiency: N/A
Efficacy: 85.0 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 - G4

Input Watts (W): 640
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

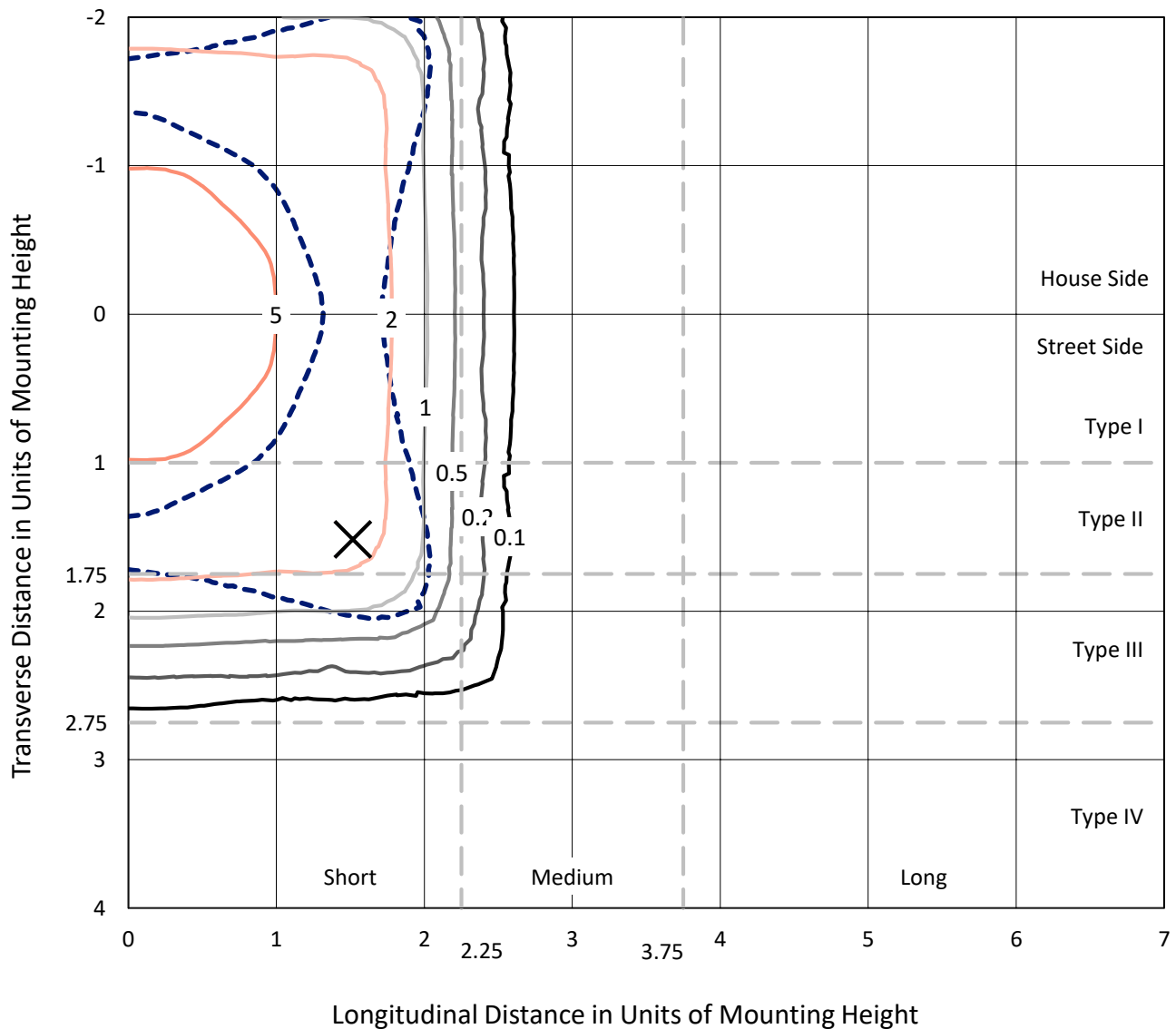


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

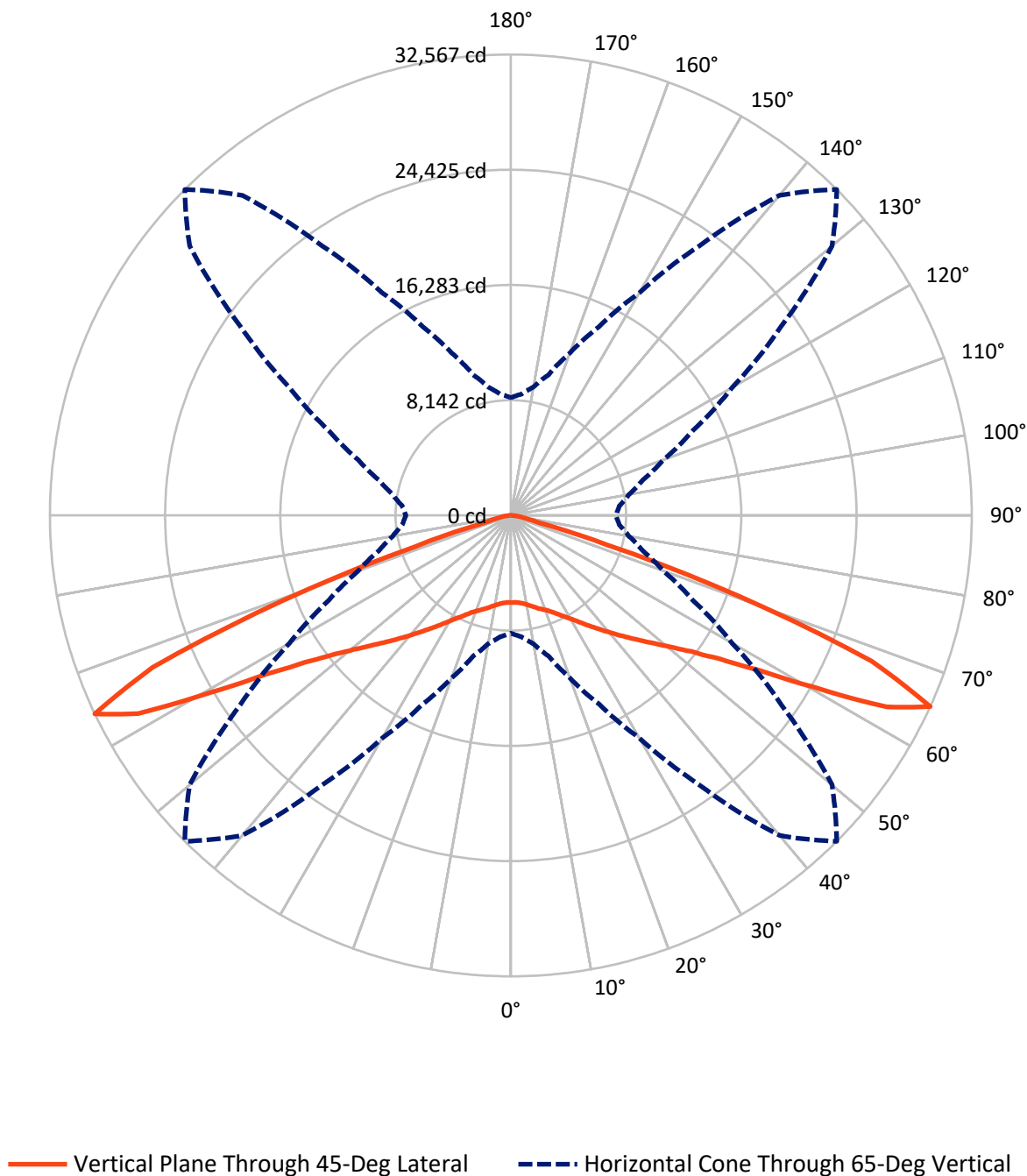


Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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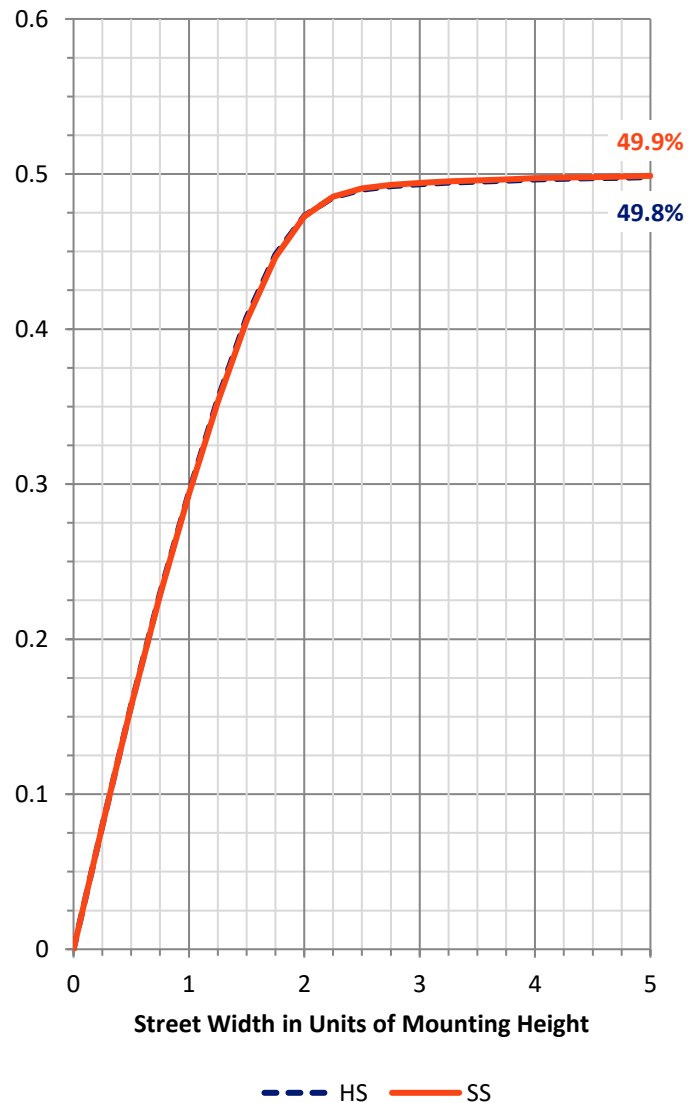
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27201.0	0.0	27201.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27201.0	0.0	27201.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	54402.0	0.0	54402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.0	1.1
10°-20°	1924.2	3.5
20°-30°	3597.9	6.6
30°-40°	6085.1	11.2
40°-50°	9949.8	18.3
50°-60°	15821.8	29.1
60°-70°	14301.8	26.3
70°-80°	1810.0	3.3
80°-90°	311.4	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°	54402.0	100.0
0°-180°	54402.0	100.0

Coefficient of Utilization



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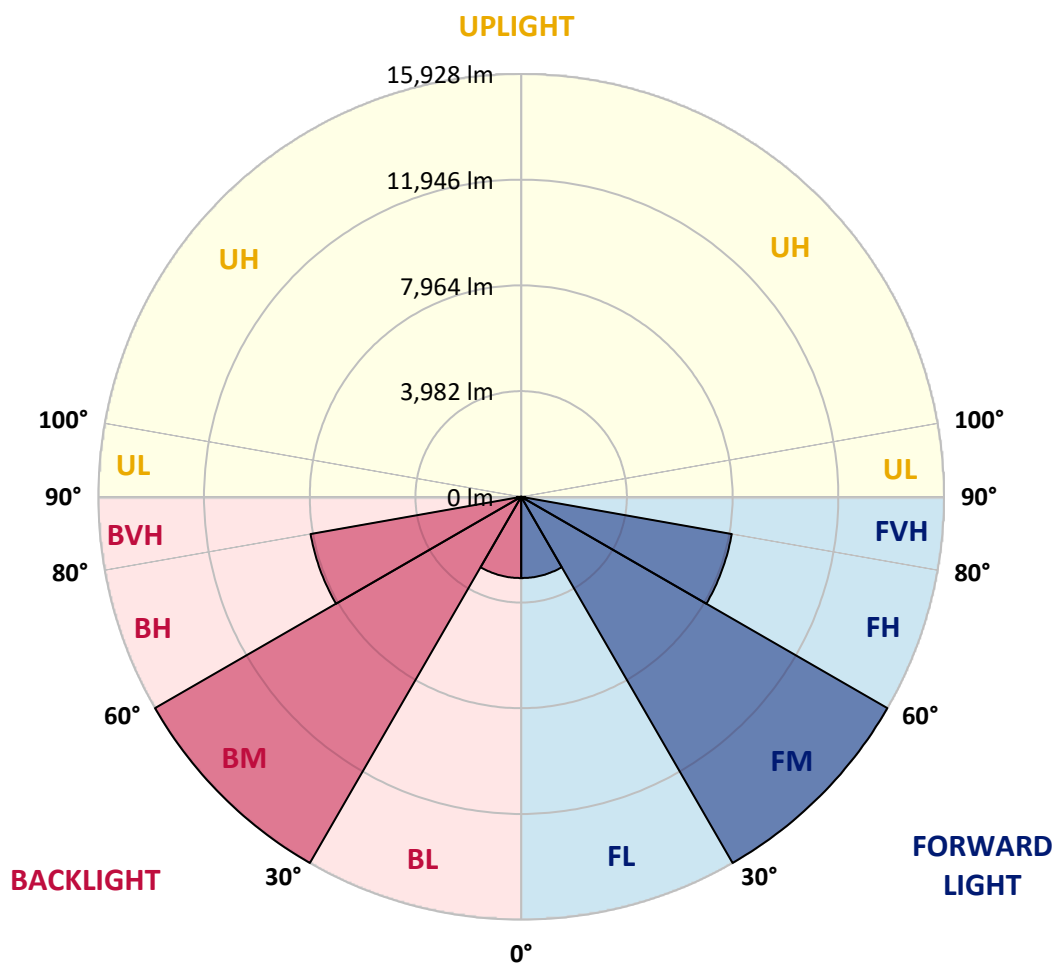
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3061.1	5.6			
FM	(30°-60°)	15928.3	29.3			
FH	(60°-80°)	8055.9	14.8			G4/12000
FVH	(80°-90°)	155.7	0.3			G2/225
BL	(0°-30°)	3061.1	5.6	B4/5000		
BM	(30°-60°)	15928.3	29.3	B5		
BH	(60°-80°)	8055.9	14.8	B5		G4/12000
BVH	(80°-90°)	155.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6155.6	6155.6	6155.6	6155.6	6155.6	6155.6	6155.6	6155.6	6155.6	6155.6	6155.6
2.5°	6160.7	6165.8	6170.9	6165.8	6170.9	6163.3	6158.2	6165.8	6158.2	6150.5	6155.6
5°	6214.2	6216.8	6216.8	6209.1	6216.8	6211.7	6204.0	6214.2	6206.6	6198.9	6204.0
7.5°	6303.4	6313.6	6305.9	6298.3	6303.4	6298.3	6293.2	6295.7	6293.2	6285.6	6288.1
10°	6423.1	6430.8	6425.7	6423.1	6428.2	6425.7	6420.6	6418.0	6420.6	6412.9	6412.9
12.5°	6568.4	6565.8	6563.3	6565.8	6573.5	6573.5	6570.9	6573.5	6578.6	6581.1	6576.0
15°	6711.0	6716.1	6716.1	6716.1	6731.4	6744.2	6751.8	6756.9	6767.1	6769.6	6759.5
17.5°	6889.4	6889.4	6886.8	6889.4	6904.7	6925.1	6932.7	6942.9	6953.1	6960.7	6948.0
20°	7088.1	7093.2	7093.2	7098.3	7118.7	7141.6	7141.6	7146.7	7141.6	7146.7	7139.1
22.5°	7330.2	7345.5	7345.5	7348.0	7368.4	7396.4	7388.8	7396.4	7383.7	7393.9	7383.7
25°	7646.1	7669.0	7663.9	7663.9	7679.2	7697.1	7699.6	7714.9	7712.4	7725.1	7717.5
27.5°	8002.8	8038.5	8048.7	8046.1	8056.3	8074.1	8079.2	8097.1	8086.9	8097.1	8092.0
30°	8430.8	8446.1	8466.5	8474.2	8486.9	8504.7	8504.7	8507.3	8494.5	8509.8	8517.5
32.5°	8874.2	8902.2	8922.6	8968.4	8991.4	9004.1	9001.6	9006.7	8993.9	9014.3	9029.6
35°	9460.2	9480.6	9513.7	9549.4	9579.9	9577.4	9569.7	9572.3	9572.3	9590.1	9605.4
37.5°	10165.9	10171.0	10214.3	10265.3	10280.6	10265.3	10219.4	10209.3	10186.3	10209.3	10234.7
40°	10912.5	10930.3	11016.9	11050.0	11057.7	11029.7	10963.4	10925.2	10874.2	10902.3	10937.9
42.5°	11694.7	11730.3	11809.3	11867.9	11893.4	11875.5	11783.8	11725.2	11659.0	11674.3	11709.9
45°	12560.9	12604.2	12716.3	12772.4	12820.8	12792.8	12703.6	12614.4	12510.0	12517.6	12573.7
47.5°	13529.1	13572.4	13717.6	13811.9	13837.4	13832.3	13732.9	13610.6	13468.0	13462.9	13511.3
50°	14614.5	14657.8	14838.7	14983.9	15057.8	15050.2	14933.0	14759.7	14586.5	14589.0	14650.2
52.5°	15674.4	15727.9	15916.4	16166.1	16311.4	16415.8	16344.5	16181.4	15969.9	15975.0	16031.1
55°	16668.1	16757.2	16973.8	17312.7	17582.7	17875.7	17959.8	17954.7	17827.3	17863.0	17919.1
57.5°	17149.6	17282.1	17615.9	18150.9	18701.2	19297.4	19801.9	20179.0	20339.5	20581.6	20525.5
60°	16237.5	16448.9	16940.7	17728.0	18815.9	20059.3	21391.8	22693.7	23804.6	24642.8	24161.3
62.5°	13294.7	13569.9	14166.1	15175.0	16820.9	18810.8	21361.2	24439.0	27792.0	29815.0	28370.4
65°	8318.7	8604.1	9210.5	10290.8	12217.0	14690.9	18150.9	23251.7	29516.9	32566.7	29626.4
67.5°	3243.4	3398.8	3727.5	4418.0	5865.2	8066.5	11539.2	17328.0	24821.2	27493.9	24360.0
70°	1625.5	1640.8	1702.0	1829.4	2140.2	2779.7	4229.4	8033.4	14234.9	17192.9	13722.7
72.5°	1174.6	1177.1	1207.7	1263.7	1363.1	1505.8	1781.0	2458.7	4629.5	7075.4	4339.0
75°	899.4	909.6	927.4	958.0	1011.5	1082.8	1182.2	1416.6	1755.5	2035.7	1712.2
77.5°	693.0	713.4	726.1	754.2	787.3	835.7	863.7	952.9	1108.3	1166.9	1149.1
80°	527.4	545.2	573.3	596.2	619.1	642.1	631.9	672.6	754.2	802.6	777.1
82.5°	336.3	356.7	438.2	458.6	468.8	484.1	466.3	468.8	504.5	535.0	504.5
85°	216.6	229.3	277.7	303.2	305.7	315.9	308.3	290.5	290.5	265.0	298.1
87.5°	99.4	101.9	124.8	147.8	152.9	137.6	135.0	129.9	104.5	99.4	107.0
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°	6155.6	6155.6	6155.6	6155.6	6155.6	6155.6	6155.6	6155.6
2.5°	6153.1	6158.2	6160.7	6168.4	6170.9	6170.9	6173.5	6178.5
5°	6201.5	6209.1	6211.7	6221.9	6224.4	6221.9	6227.0	6229.5
7.5°	6288.1	6300.8	6305.9	6316.1	6308.5	6318.7	6321.2	6321.2
10°	6415.5	6428.2	6430.8	6441.0	6435.9	6441.0	6441.0	6435.9
12.5°	6583.7	6586.2	6578.6	6586.2	6576.0	6581.1	6573.5	6568.4
15°	6769.6	6762.0	6744.2	6744.2	6728.9	6731.4	6728.9	6726.3
17.5°	6950.5	6935.3	6922.5	6917.4	6904.7	6902.1	6894.5	6894.5
20°	7149.3	7141.6	7134.0	7123.8	7111.1	7098.3	7095.8	7100.9
22.5°	7388.8	7386.2	7386.2	7381.1	7363.3	7350.6	7342.9	7342.9
25°	7709.8	7686.9	7686.9	7684.3	7676.7	7669.0	7653.8	7661.4
27.5°	8071.6	8058.9	8069.1	8066.5	8058.9	8058.9	8048.7	8048.7
30°	8517.5	8512.4	8527.7	8514.9	8489.4	8486.9	8476.7	8464.0
32.5°	9032.1	9027.0	9050.0	9034.7	8993.9	8971.0	8950.6	8940.4
35°	9605.4	9608.0	9636.0	9625.8	9579.9	9564.6	9529.0	9523.9
37.5°	10232.2	10272.9	10321.4	10331.5	10293.3	10283.1	10244.9	10224.5
40°	10968.5	11022.0	11095.9	11113.7	11073.0	11065.3	11011.8	10983.8
42.5°	11753.3	11845.0	11936.7	11952.0	11911.2	11870.5	11819.5	11799.1
45°	12629.7	12739.3	12859.0	12889.6	12828.4	12780.0	12713.8	12713.8
47.5°	13613.2	13750.8	13885.8	13969.9	13913.8	13862.9	13783.9	13732.9
50°	14775.0	14963.5	15139.3	15226.0	15136.8	15040.0	14902.4	14856.5
52.5°	16232.4	16436.2	16589.1	16543.2	16405.6	16270.6	16120.3	16059.1
55°	18092.3	18161.1	18161.1	17987.8	17712.7	17485.9	17249.0	17170.0
57.5°	20418.5	20153.5	19745.9	19228.7	18579.0	18013.3	17631.2	17450.3
60°	23152.4	21878.4	20438.9	19024.8	17863.0	16905.0	16336.8	16077.0
62.5°	24974.1	21641.5	18757.3	16487.2	14815.8	13661.6	12876.9	12571.1
65°	23340.9	18049.0	14186.5	11470.4	9648.7	8474.2	7697.1	7411.7
67.5°	17096.1	11309.9	7554.4	5414.2	3967.0	3164.4	2846.0	2713.5
70°	7674.1	3982.3	2440.8	1905.8	1643.4	1508.3	1449.7	1429.3
72.5°	2313.5	1673.9	1411.5	1273.9	1169.5	1103.2	1054.8	1049.7
75°	1396.2	1161.8	1031.9	950.3	884.1	830.6	805.1	797.5
77.5°	975.8	853.5	792.4	733.8	682.8	642.1	619.1	601.3
80°	685.4	626.8	598.7	565.6	532.5	494.3	461.2	445.9
82.5°	458.6	445.9	445.9	425.5	397.5	361.8	295.6	280.3
85°	295.6	293.0	298.1	290.5	270.1	231.9	191.1	180.9
87.5°	137.6	140.1	155.4	152.9	147.8	122.3	96.8	91.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)