

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: P193357

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-5MQ-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45616 lumens
Efficiency: N/A
Efficacy: 91.0 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): 501
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

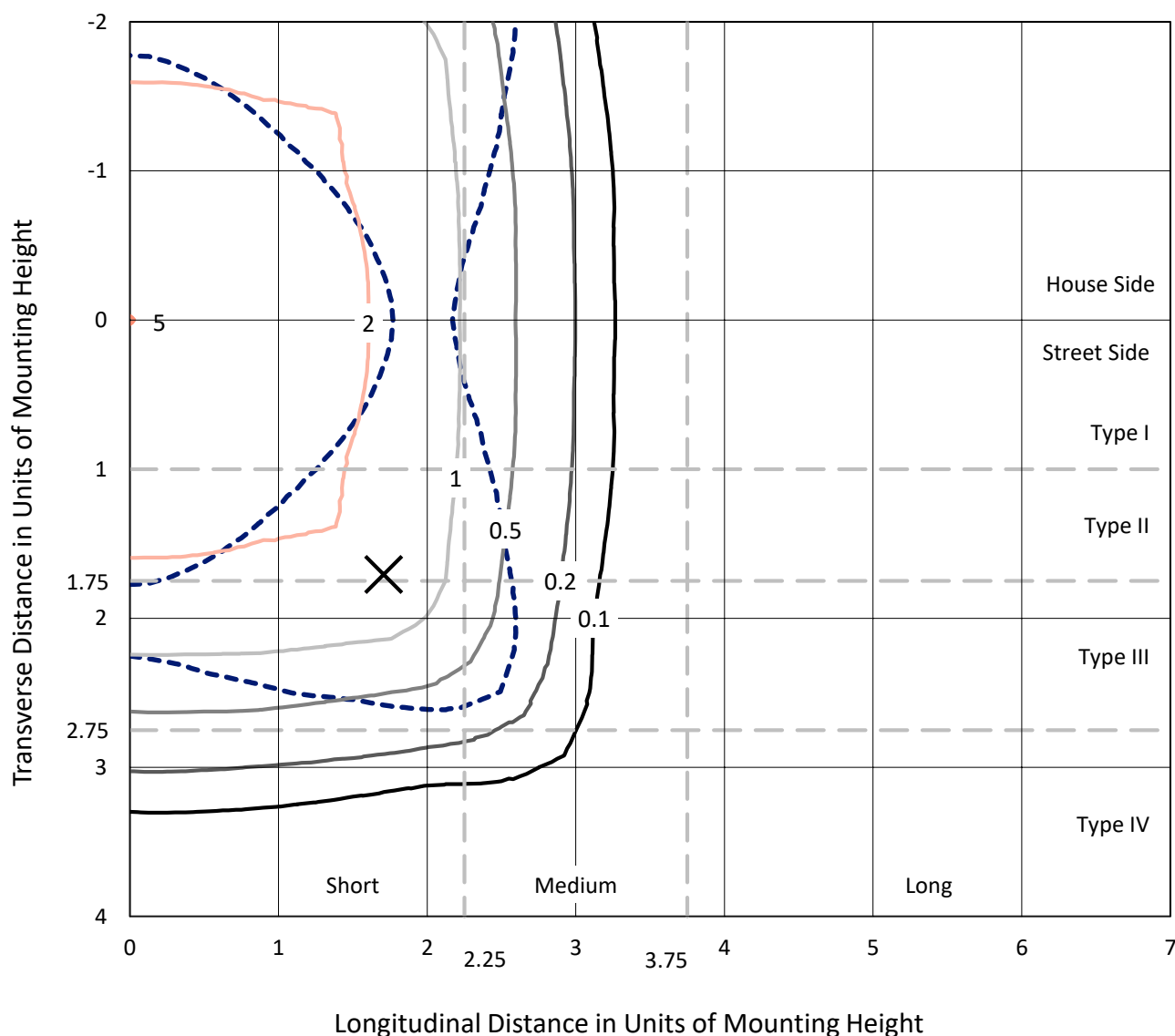


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

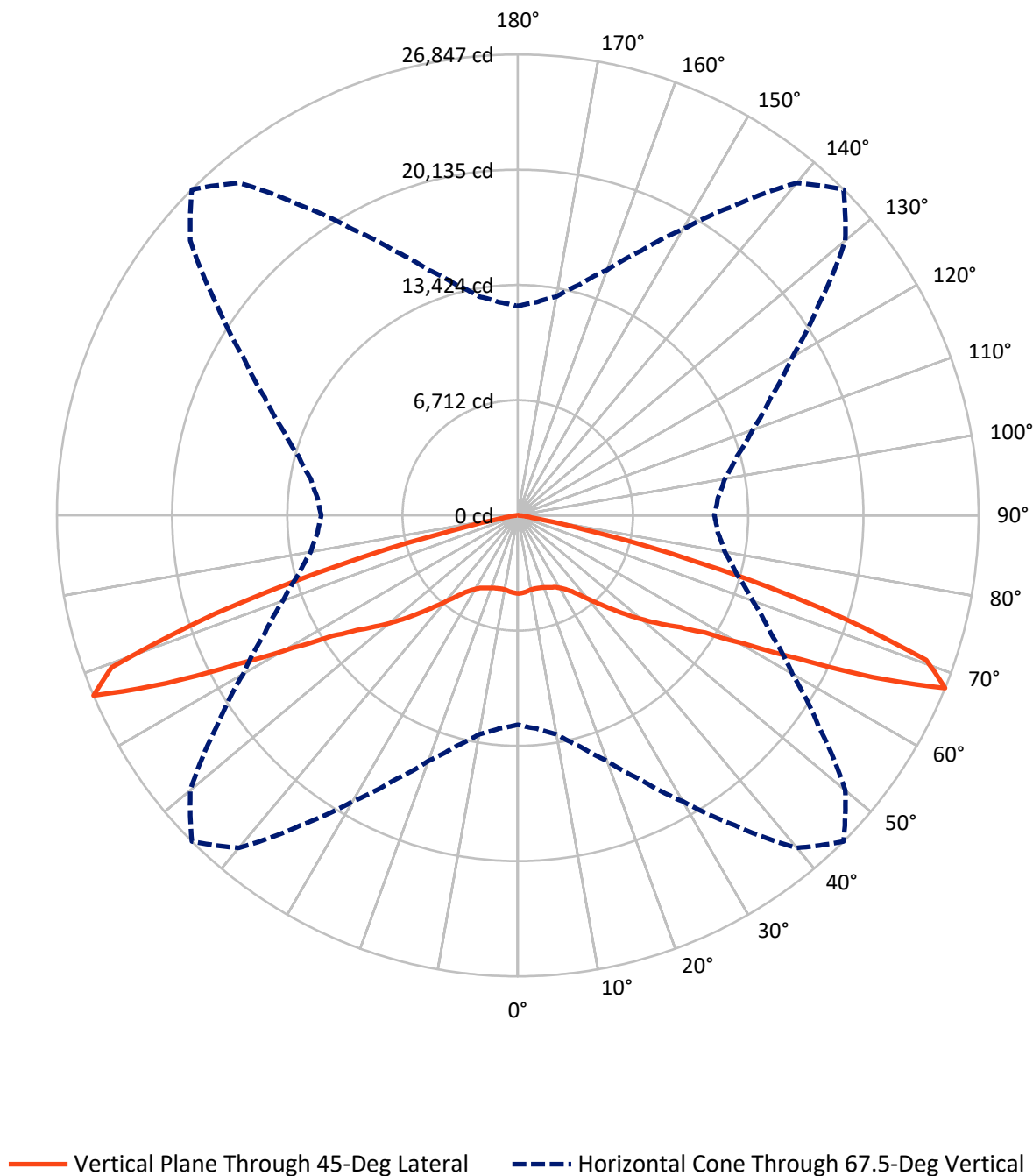


Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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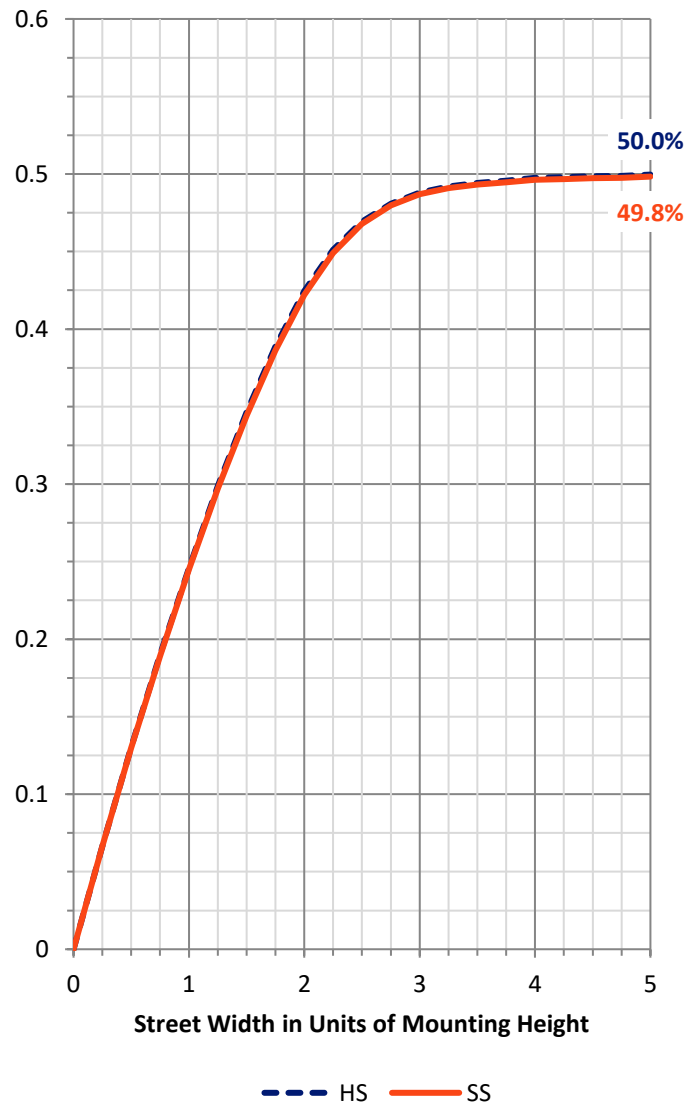
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22808.0	0.0	22808.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22808.0	0.0	22808.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	45616.0	0.0	45616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.5	0.9
10°-20°	1234.6	2.7
20°-30°	2098.8	4.6
30°-40°	3431.0	7.5
40°-50°	6124.9	13.4
50°-60°	10326.7	22.6
60°-70°	16025.6	35.1
70°-80°	5630.7	12.3
80°-90°	318.2	0.7
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°	45616.0	100.0
0°-180°	45616.0	100.0

Coefficient of Utilization



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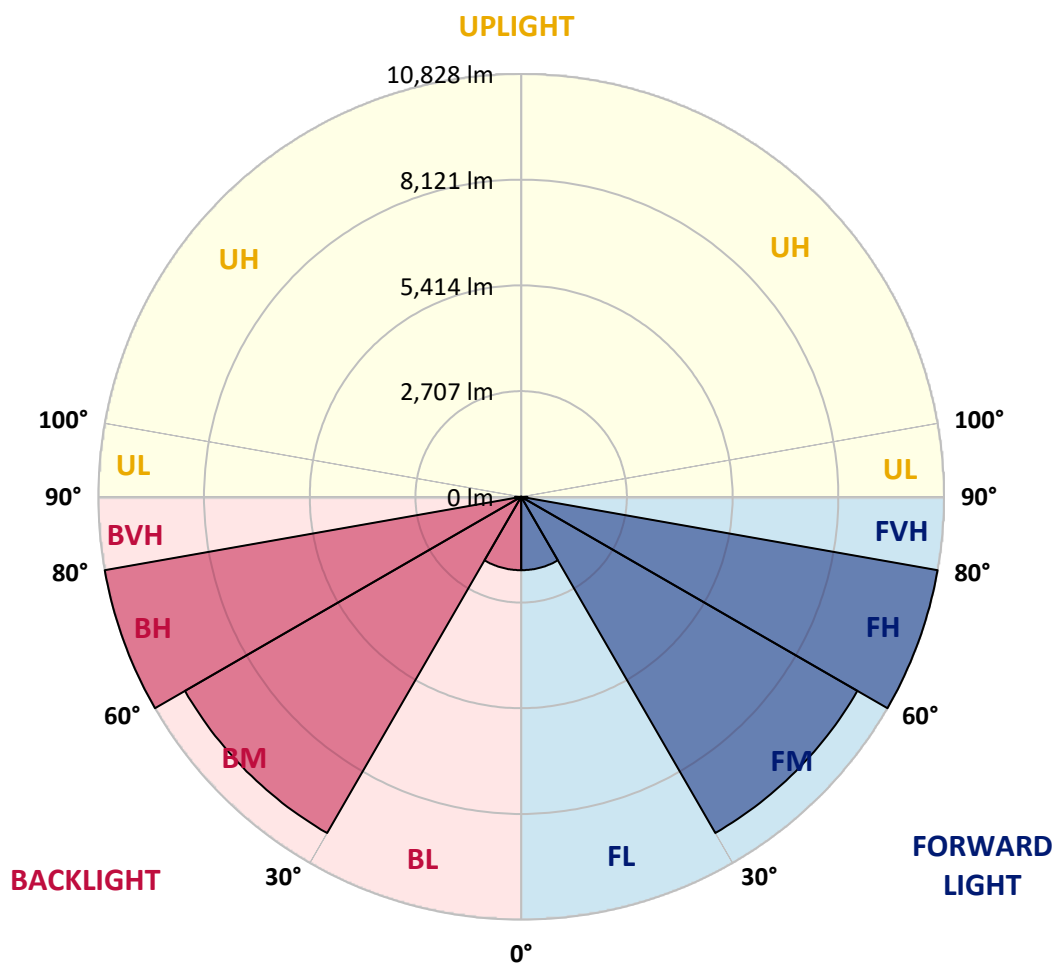
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1879.5	4.1			
FM	(30°-60°)	9941.3	21.8			
FH	(60°-80°)	10828.1	23.7			G4/12000
FVH	(80°-90°)	159.1	0.3			G2/225
BL	(0°-30°)	1879.5	4.1	B3/2500		
BM	(30°-60°)	9941.3	21.8	B5		
BH	(60°-80°)	10828.1	23.7	B5		G4/12000
BVH	(80°-90°)	159.1	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°	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8
2.5°	4529.0	4533.2	4533.2	4533.2	4531.1	4531.1	4526.9	4531.1	4529.0	4522.8	4524.8
5°	4491.3	4495.5	4495.5	4493.4	4499.7	4497.6	4491.3	4495.5	4493.4	4489.2	4491.3
7.5°	4436.7	4443.0	4443.0	4440.9	4447.2	4445.1	4440.9	4443.0	4443.0	4436.7	4436.7
10°	4375.9	4380.1	4380.1	4378.0	4388.5	4388.5	4386.4	4392.7	4394.8	4388.5	4384.3
12.5°	4319.3	4325.6	4325.6	4334.0	4344.4	4348.6	4359.1	4367.5	4375.9	4373.8	4365.4
15°	4285.7	4289.9	4298.3	4308.8	4325.6	4340.2	4357.0	4375.9	4392.7	4396.9	4384.3
17.5°	4264.7	4271.0	4283.6	4298.3	4321.4	4346.5	4371.7	4396.9	4420.0	4428.4	4413.7
20°	4258.4	4262.6	4275.2	4300.4	4331.9	4369.6	4405.3	4434.6	4466.1	4476.6	4466.1
22.5°	4271.0	4279.4	4294.1	4323.5	4365.4	4413.7	4455.6	4495.5	4535.3	4554.2	4539.5
25°	4327.7	4336.1	4354.9	4392.7	4438.8	4489.2	4537.4	4583.6	4619.2	4638.1	4627.6
27.5°	4432.5	4443.0	4466.1	4503.9	4554.2	4608.8	4661.2	4699.0	4728.3	4734.6	4722.0
30°	4589.9	4613.0	4640.2	4682.2	4740.9	4787.1	4839.5	4873.1	4908.7	4908.7	4898.2
32.5°	4835.3	4858.4	4887.8	4927.6	4973.8	5024.1	5070.3	5099.6	5137.4	5139.5	5114.3
35°	5202.4	5212.9	5238.1	5263.3	5305.2	5349.3	5389.1	5408.0	5439.5	5441.6	5418.5
37.5°	5687.0	5689.1	5705.9	5714.3	5752.0	5800.3	5838.0	5850.6	5880.0	5875.8	5852.7
40°	6251.3	6261.8	6268.1	6280.7	6320.5	6366.7	6406.5	6412.8	6444.3	6438.0	6408.6
42.5°	6903.7	6907.9	6943.6	6962.4	7000.2	7023.3	7073.6	7079.9	7117.7	7100.9	7067.3
45°	7635.8	7673.6	7707.1	7744.9	7784.8	7812.0	7851.9	7843.5	7868.7	7843.5	7824.6
47.5°	8405.7	8433.0	8508.5	8567.2	8632.2	8655.3	8712.0	8686.8	8712.0	8676.3	8670.0
50°	9253.2	9301.4	9366.5	9433.6	9502.8	9540.6	9614.0	9582.5	9616.1	9582.5	9563.6
52.5°	10088.1	10100.7	10243.3	10341.9	10438.4	10482.5	10526.5	10511.8	10513.9	10511.8	10493.0
55°	10881.0	10910.4	11053.1	11187.3	11355.1	11478.9	11554.4	11546.0	11527.1	11508.3	11476.8
57.5°	11774.7	11804.0	11967.7	12133.4	12324.3	12500.5	12653.6	12811.0	12871.8	12888.6	12819.4
60°	12983.0	12980.9	13199.1	13400.4	13673.1	13935.4	14271.0	14612.9	15005.2	15187.7	14946.5
62.5°	14212.3	14262.6	14577.3	14933.9	15496.1	16043.6	16662.4	17270.8	17891.7	18397.3	17860.3
65°	14065.4	14258.4	14726.2	15533.8	16572.2	17805.7	19139.9	20551.7	21827.1	22704.0	21720.1
67.5°	12190.0	12464.8	12941.0	13922.8	15221.3	17000.2	19240.6	22032.7	25277.9	26847.0	24902.4
70°	8835.7	9146.2	9645.5	10604.1	11890.1	13580.8	16014.2	19366.4	23662.6	25244.3	23102.5
72.5°	4396.9	4564.7	4873.1	5483.5	6456.9	7828.8	10035.6	13257.8	17058.9	18510.6	16553.4
75°	1493.6	1571.2	1623.7	1822.9	2131.3	2670.4	3767.6	5796.1	8842.0	10599.9	8716.2
77.5°	862.2	864.3	899.9	935.6	988.0	1046.8	1193.6	1567.0	2710.3	3849.4	2804.7
80°	558.0	555.9	585.3	612.5	648.2	677.6	686.0	725.8	837.0	992.2	887.3
82.5°	289.5	325.2	390.2	425.8	493.0	505.6	488.8	474.1	501.4	520.2	532.8
85°	159.4	138.5	207.7	268.5	297.9	302.1	302.1	285.3	295.8	289.5	314.7
87.5°	73.4	67.1	81.8	132.2	140.5	119.6	125.9	111.2	79.7	77.6	88.1
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°	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8
2.5°	4524.8	4526.9	4526.9	4533.2	4535.3	4539.5	4543.7	4545.8
5°	4489.2	4495.5	4491.3	4497.6	4497.6	4501.8	4501.8	4503.9
7.5°	4436.7	4443.0	4443.0	4443.0	4440.9	4447.2	4447.2	4447.2
10°	4382.2	4386.4	4384.3	4380.1	4375.9	4382.2	4380.1	4378.0
12.5°	4365.4	4354.9	4346.5	4342.3	4334.0	4336.1	4329.8	4329.8
15°	4375.9	4357.0	4342.3	4336.1	4327.7	4323.5	4319.3	4321.4
17.5°	4403.2	4380.1	4361.2	4350.7	4340.2	4334.0	4325.6	4327.7
20°	4451.4	4424.2	4396.9	4375.9	4357.0	4346.5	4340.2	4338.1
22.5°	4522.8	4482.9	4443.0	4411.6	4386.4	4371.7	4365.4	4361.2
25°	4604.6	4560.5	4514.4	4478.7	4453.5	4434.6	4422.1	4422.1
27.5°	4707.4	4671.7	4629.7	4587.8	4564.7	4545.8	4537.4	4533.2
30°	4879.4	4845.8	4812.2	4772.4	4743.0	4724.1	4709.5	4696.9
32.5°	5099.6	5072.4	5045.1	5015.7	4988.5	4963.3	4940.2	4929.7
35°	5410.1	5389.1	5370.2	5336.7	5326.2	5311.5	5298.9	5288.4
37.5°	5838.0	5829.7	5829.7	5794.0	5785.6	5779.3	5766.7	5768.8
40°	6400.2	6408.6	6398.1	6385.6	6379.3	6362.5	6362.5	6377.2
42.5°	7065.2	7071.5	7094.6	7073.6	7096.7	7075.7	7063.1	7073.6
45°	7837.2	7860.3	7906.4	7885.4	7900.1	7864.5	7820.4	7822.5
47.5°	8703.6	8724.5	8743.4	8728.7	8730.8	8672.1	8613.4	8598.7
50°	9603.5	9611.9	9622.4	9601.4	9605.6	9540.6	9473.4	9475.5
52.5°	10493.0	10532.8	10574.8	10518.1	10505.5	10432.1	10337.7	10300.0
55°	11510.4	11567.0	11518.8	11420.2	11321.6	11223.0	11099.2	11078.2
57.5°	12764.8	12668.3	12517.3	12330.6	12194.2	12055.8	11929.9	11877.5
60°	14510.1	14147.2	13874.5	13597.6	13423.5	13253.6	13087.9	13062.7
62.5°	16977.1	16349.9	15806.6	15233.9	14766.1	14401.1	14109.5	14027.7
65°	20069.2	18586.1	17300.2	16100.2	15057.7	14271.0	13775.9	13557.8
67.5°	21399.2	18470.7	16266.0	14562.6	13199.1	12246.7	11711.7	11445.3
70°	18804.2	15317.8	12920.0	11214.6	9972.7	8957.4	8472.8	8187.5
72.5°	12936.8	9744.1	7705.0	6289.1	5296.8	4447.2	4111.6	4086.4
75°	5808.7	3847.3	2651.6	2043.2	1720.2	1495.7	1426.5	1374.0
77.5°	1625.8	1202.0	1072.0	1002.7	935.6	858.0	828.6	834.9
80°	790.9	746.8	717.4	673.4	612.5	547.5	518.1	530.7
82.5°	524.4	518.1	537.0	505.6	417.5	354.5	297.9	272.7
85°	318.9	323.1	329.3	331.4	281.1	197.2	134.3	151.0
87.5°	125.9	144.7	157.3	163.6	153.1	94.4	75.5	77.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)