

Scaled data based on original data using
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: P10821_350MP

Luminaire Tested: **OVX35PXX3EF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: P10821_350MP
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVX35PXX3EF
Description: 400 WATT MH TYPE III ROADWAY
Light Source: 350 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 25564.9 lumens
Efficiency: 77.5%
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 0.92' x L: 1.12' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U2 - G3

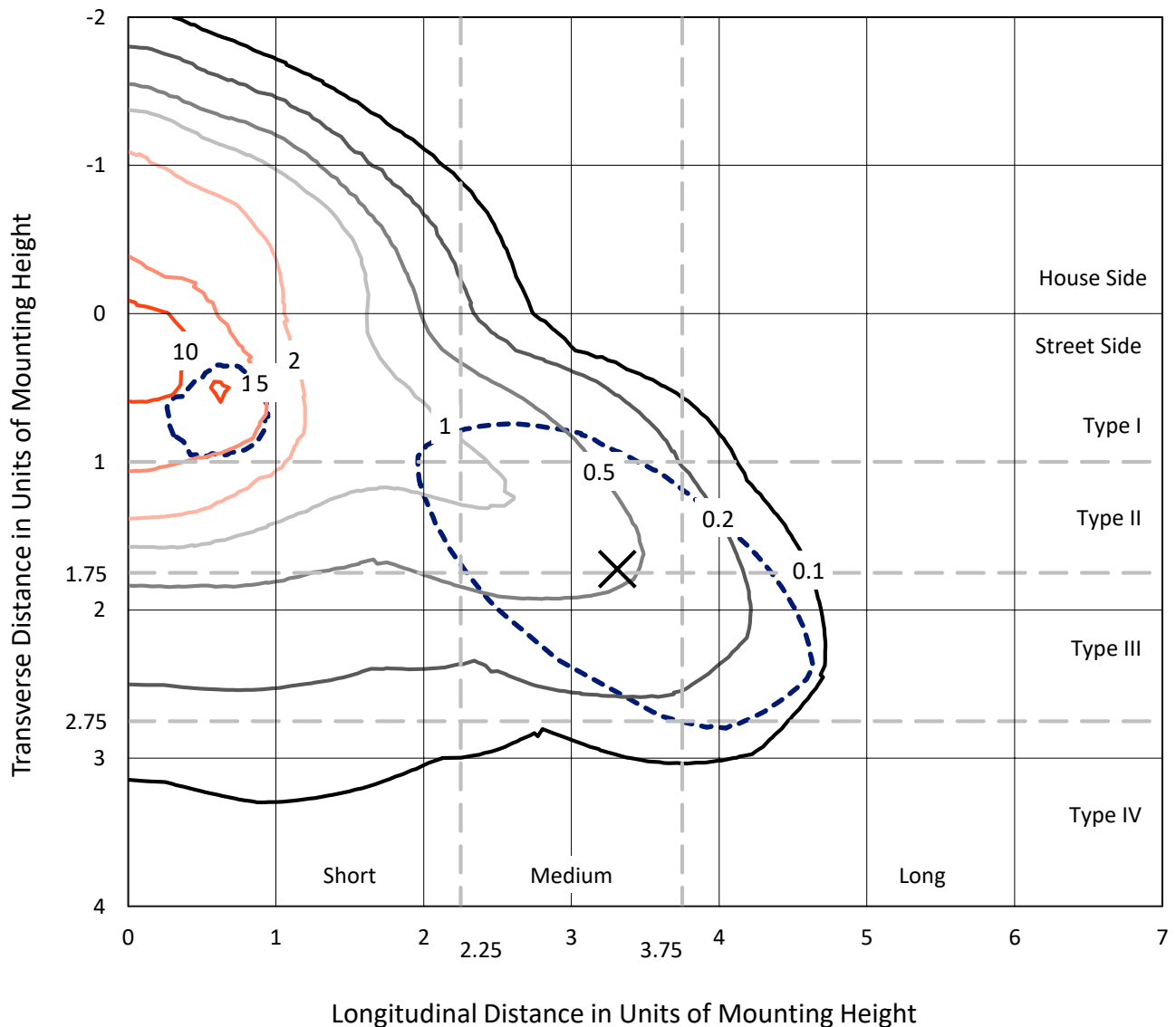
Input Watts (W): 397
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

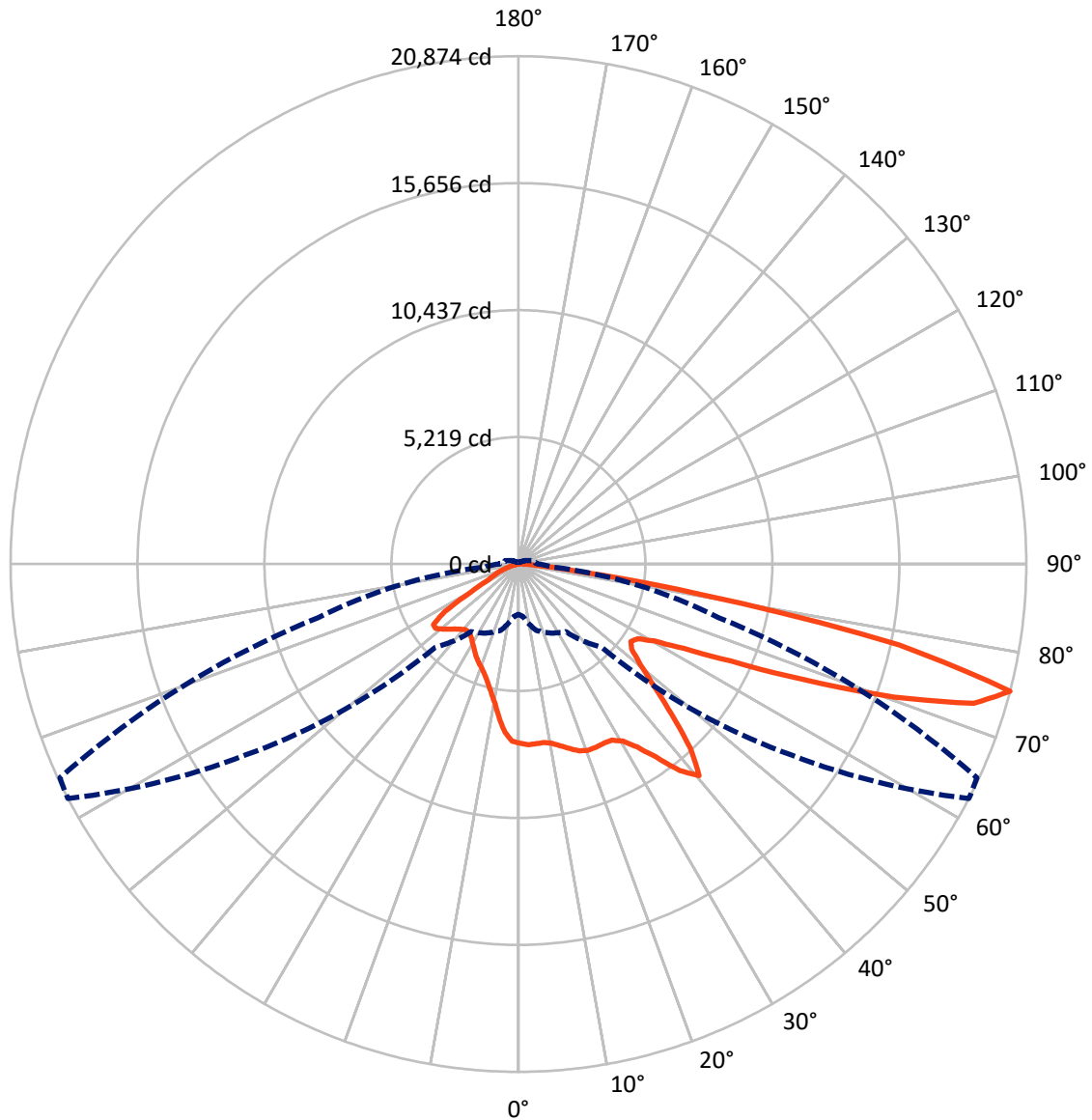
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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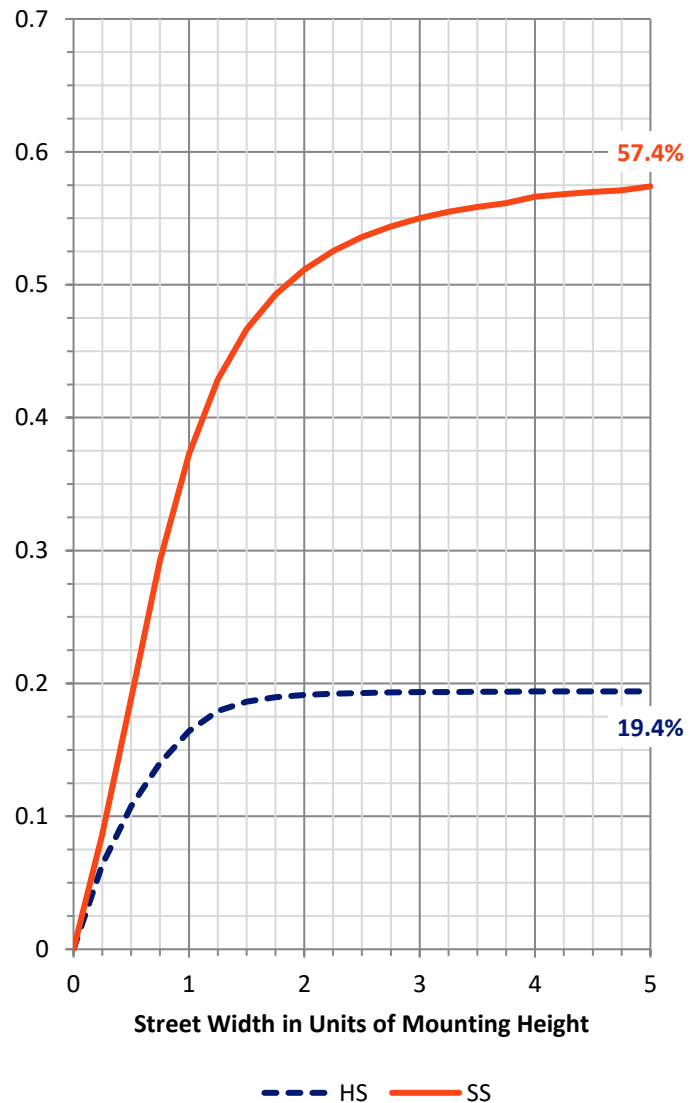
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6440.4	5.7	6446.1
	% Lamp	19.5	0.0	19.5
Street Side	Lumens	19100.8	18.0	19118.8
	% Lamp	57.9	0.1	57.9
Total	Lumens	25541.2	23.7	25564.9
	% Lamp	77.4	0.1	77.5

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	661.9	2.6	2.0
10°-20°	1826.5	7.1	5.5
20°-30°	2884.3	11.3	8.7
30°-40°	3999.8	15.6	12.1
40°-50°	5097.3	19.9	15.4
50°-60°	4064.9	15.9	12.3
60°-70°	3217.1	12.6	9.7
70°-80°	3280.6	12.8	9.9
80°-90°	508.8	2.0	1.5
90°-100°	22.2	0.1	0.1
100°-110°	1.5	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	25541.2	99.9	77.4
0°-180°	25564.9	100.0	77.5

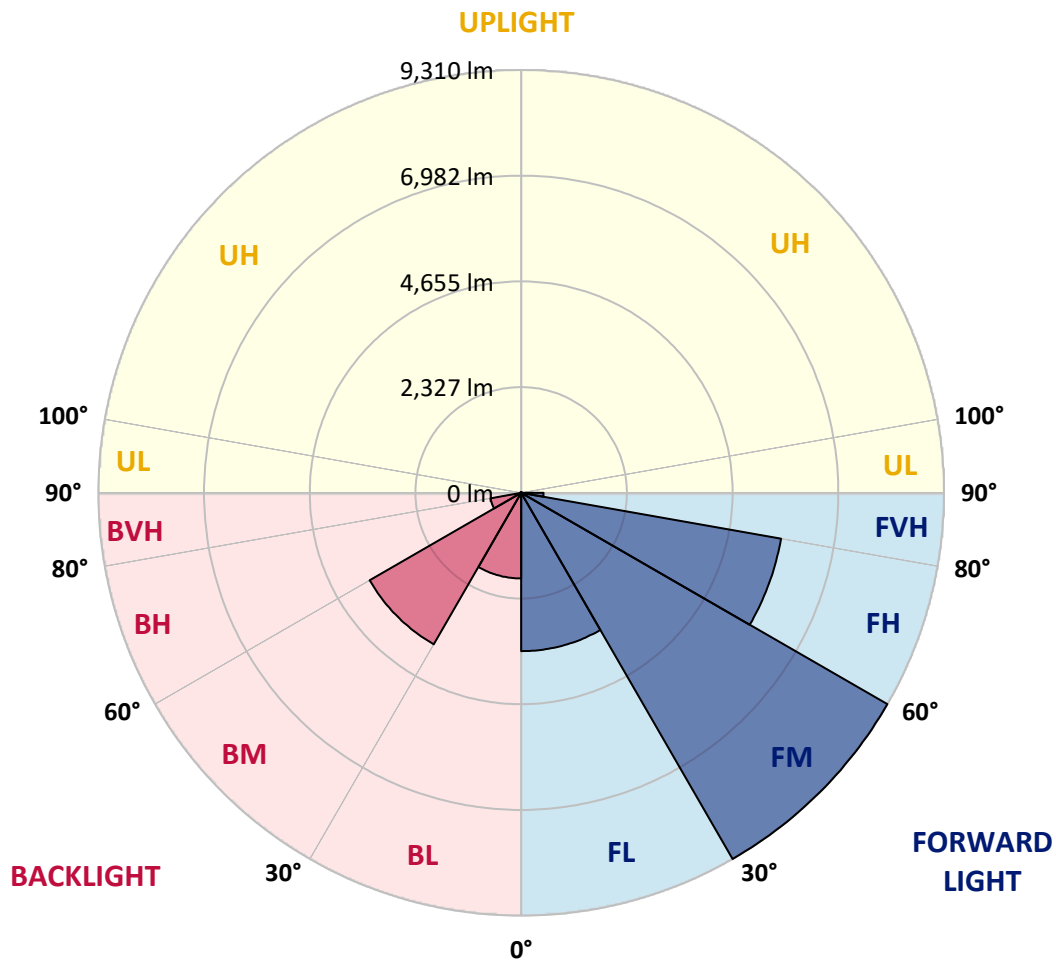


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3486.7	10.6			
FM (30°-60°)	9310.0	28.2			
FH (60°-80°)	5810.7	17.6			G3/7500
FVH (80°-90°)	493.3	1.5			G3/500
BL (0°-30°)	1886.0	5.7	B3/2500		
BM (30°-60°)	3851.9	11.7	B3/5000		
BH (60°-80°)	687.0	2.1	B2/1000		G2/1000
BVH (80°-90°)	15.5	0.0			G1/100
UL (90°-100°)	22.2	0.1		U2/50	
UH (100°-180°)	5.7	0.0		U1/10	
Trapped Light	7435.1	22.5			

BUG Rating: B3-U2-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	7362.7	7362.7	7362.7	7362.7	7362.7	7362.7	7362.7	7362.7	7362.7	7362.7	7362.7
2.5°	7417.7	7441.5	7444.2	7435.1	7435.1	7444.2	7444.2	7436.0	7433.2	7419.5	7405.8
5°	7417.7	7433.2	7433.2	7422.2	7421.3	7417.7	7424.1	7425.9	7410.3	7392.9	7347.1
7.5°	7601.9	7631.2	7622.1	7597.3	7572.6	7518.5	7452.5	7405.8	7372.8	7302.2	7208.7
10°	7949.3	7965.8	7960.3	7916.3	7830.2	7707.3	7581.8	7491.9	7443.3	7291.2	7132.6
12.5°	8297.7	8315.1	8281.2	8215.2	8090.5	7939.2	7788.9	7667.9	7618.4	7392.0	7158.2
15°	8569.9	8586.4	8544.2	8483.8	8346.2	8162.0	8018.1	7868.7	7827.4	7560.7	7249.9
17.5°	8772.5	8793.6	8774.3	8711.1	8561.7	8385.7	8216.1	8073.1	8024.5	7718.3	7289.3
20°	8913.7	8943.0	8975.1	8960.4	8802.8	8535.1	8315.1	8173.9	8121.7	7769.7	7212.3
22.5°	9098.8	9142.8	9207.9	9263.8	9023.7	8641.4	8364.6	8174.8	8124.4	7639.5	6947.4
25°	9342.7	9378.4	9518.7	9590.2	9225.3	8729.4	8420.5	8160.2	8055.7	7393.8	6558.8
27.5°	9601.2	9645.2	9814.8	9888.1	9443.5	8908.2	8542.4	8196.8	8069.4	7191.2	6196.7
30°	9839.5	9878.0	10115.4	10100.8	9727.7	9312.4	8897.2	8447.1	8246.3	7054.7	5860.2
32.5°	9958.7	9976.1	10209.8	10277.7	10114.5	10032.9	9699.2	8963.2	8611.2	6933.7	5302.9
35°	9988.9	10021.9	10203.4	10394.1	10626.0	11019.2	10984.4	9734.1	9143.8	6731.1	4501.8
37.5°	9954.1	9971.5	10120.9	10502.2	11279.6	12395.2	12894.8	10774.5	9781.8	5818.1	4242.3
40°	9999.0	10023.8	10010.0	10534.3	11991.8	13914.1	14826.2	11440.0	9790.9	5304.8	4125.0
42.5°	10141.1	10143.8	9967.8	10472.0	12530.8	15288.2	15741.0	10364.8	8517.7	5060.0	4021.4
45°	10101.7	10182.3	9930.2	10274.9	12483.2	15873.0	14718.0	8840.3	7486.4	4732.8	3879.3
47.5°	9617.7	9728.6	9591.1	9793.7	11451.0	14495.2	11965.2	7474.5	6469.8	4413.8	3861.0
50°	8613.0	8630.4	8778.9	8923.8	9634.2	11353.8	9358.2	6484.5	5819.9	4342.2	3950.8
52.5°	7238.9	7275.6	7544.2	7742.2	7810.9	8631.3	7553.3	5826.3	5431.2	4447.7	4092.9
55°	5670.5	5657.7	6053.7	6292.0	6205.8	7079.4	6600.0	5612.8	5423.0	4649.3	4187.3
57.5°	3813.3	3938.0	4652.1	5007.8	5422.1	6299.3	6243.4	5785.1	5717.2	5021.5	4289.1
60°	2977.3	3042.4	3599.8	4311.1	4902.3	5759.4	6411.2	6417.6	6408.4	5589.8	4414.7
62.5°	2728.0	2745.4	2969.1	3740.9	4458.7	5445.9	6927.2	7624.8	7715.6	6532.2	4343.2
65°	2587.8	2594.2	2761.0	3311.9	4095.7	5222.2	7832.9	9603.0	9890.8	7751.3	3434.8
67.5°	2482.3	2502.5	2737.2	3143.2	3862.8	5143.4	9218.0	12700.4	13066.2	8570.8	2702.3
70°	2363.2	2405.3	2793.1	3162.5	3688.7	5201.2	11252.1	16374.4	16757.6	9877.1	2411.8
72.5°	2240.3	2302.7	2810.5	3191.8	3587.8	5287.3	13147.8	19575.4	20213.4	10586.6	1946.1
75°	2064.3	2167.0	2821.5	3130.4	3394.4	4838.2	13686.8	20874.3	20794.6	8518.6	1365.8
77.5°	1800.3	1927.8	2651.9	2893.0	2951.7	3080.9	12186.2	15999.5	14675.8	4623.7	823.2
80°	1584.0	1683.9	2393.4	2469.5	1858.1	1717.8	7330.6	7602.8	6454.2	1974.5	470.2
82.5°	1299.8	1397.0	1880.1	1273.2	616.9	957.0	2558.4	2434.7	2130.3	780.1	250.2
85°	873.6	919.4	963.4	470.2	306.2	413.4	806.7	774.6	675.6	301.6	108.2
87.5°	418.0	429.9	393.2	239.2	162.2	178.8	242.0	242.0	212.7	94.4	43.1
90°	165.9	174.2	172.3	122.8	87.1	87.1	84.3	66.0	56.8	34.8	26.6
92.5°	82.5	85.2	82.5	62.3	42.2	37.6	30.2	25.7	25.7	15.6	5.5
95°	44.0	44.9	40.3	30.2	20.2	16.5	15.6	7.3	5.5	5.5	5.5
97.5°	25.7	25.7	22.0	15.6	10.1	4.6	4.6	5.5	5.5	5.5	6.4
100°	22.0	22.0	18.3	12.8	8.2	6.4	6.4	6.4	6.4	6.4	7.3
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°	7362.7	7362.7	7362.7	7362.7	7362.7	7362.7	7362.7	7362.7	7362.7	7362.7	7362.7
2.5°	7380.1	7381.9	7338.8	7301.2	7254.5	7224.2	7194.9	7147.2	7124.3	7109.7	7100.5
5°	7293.0	7259.1	7110.6	6978.6	6841.1	6734.8	6632.1	6558.8	6516.6	6497.3	6505.6
7.5°	7110.6	6995.1	6736.6	6455.2	6239.8	6043.6	5926.2	5855.7	5808.9	5824.5	5814.4
10°	6996.0	6813.6	6386.4	5930.8	5495.4	5213.1	5090.2	5057.2	5059.1	5090.2	5086.6
12.5°	6974.0	6732.9	6173.8	5541.2	4932.6	4516.4	4330.3	4334.9	4476.1	4590.7	4608.1
15°	7019.8	6730.2	6024.3	5202.1	4520.1	4084.7	3899.5	3929.8	4128.7	4340.4	4366.1
17.5°	7029.9	6705.4	5876.8	4916.1	4245.1	3829.8	3686.8	3714.3	3882.1	4182.8	4246.9
20°	6894.2	6561.5	5689.8	4686.0	4033.3	3670.3	3548.4	3508.1	3626.3	3918.8	3996.7
22.5°	6602.8	6259.9	5402.8	4507.2	3917.8	3585.1	3392.6	3305.5	3353.2	3583.2	3630.9
25°	6187.5	5834.6	4993.1	4286.3	3860.1	3519.1	3255.1	3101.1	3098.3	3303.7	3366.9
27.5°	5762.2	5399.2	4475.2	4015.0	3825.2	3434.8	3074.5	2911.3	2910.4	3103.8	3184.5
30°	5315.8	4691.5	3966.4	3801.4	3738.2	3350.4	2954.4	2795.8	2797.7	2989.2	3086.4
32.5°	4468.8	4061.8	3735.4	3630.9	3617.2	3297.2	2918.7	2778.4	2778.4	3006.7	3125.8
35°	4075.5	3837.2	3602.5	3506.2	3515.4	3290.8	2959.9	2861.8	2893.0	3142.3	3289.0
37.5°	3927.0	3744.6	3526.4	3453.1	3460.4	3319.2	3085.5	3103.8	3134.1	3336.7	3520.0
40°	3861.0	3684.1	3517.2	3487.9	3482.4	3415.5	3279.8	3324.8	3327.5	3411.8	3570.4
42.5°	3774.8	3662.1	3575.0	3596.1	3621.8	3568.6	3422.8	3382.5	3408.2	3469.6	3577.8
45°	3762.0	3742.8	3740.0	3751.0	3712.5	3722.6	3489.8	3357.8	3522.8	3663.0	3749.2
47.5°	3865.6	3905.0	3949.9	3966.4	3800.5	3796.8	3542.0	3352.2	3793.2	4109.4	4123.2
50°	4016.8	4059.0	4138.8	4172.7	3930.7	3754.7	3459.5	3140.5	3715.2	4334.9	4263.4
52.5°	4136.9	4180.9	4372.5	4432.1	3925.2	3493.4	3025.9	2559.3	2889.3	3605.2	3629.1
55°	4204.8	4310.2	4625.5	4526.5	3593.3	2959.0	2388.8	1887.4	1953.4	2500.7	2641.8
57.5°	4281.8	4460.5	4603.5	3896.8	2777.5	2196.3	1715.1	1322.8	1321.8	1655.5	1737.1
60°	4290.9	4289.1	3702.4	2449.3	1651.8	1341.1	1081.7	899.2	943.2	1174.2	1194.4
62.5°	3766.6	3295.4	2338.4	1540.0	1100.9	889.2	765.4	707.7	728.8	879.1	896.5
65°	2518.1	2141.3	1654.6	1202.7	890.1	706.8	594.0	528.0	533.5	649.0	655.4
67.5°	1872.8	1645.4	1361.2	1005.6	725.1	539.9	417.1	363.0	362.1	462.0	470.2
70°	1542.8	1310.8	1078.0	774.6	521.6	357.5	261.2	223.7	225.5	299.8	313.5
72.5°	1156.8	981.8	787.4	531.7	328.2	215.4	159.5	136.6	132.0	168.7	193.4
75°	793.8	682.0	528.9	330.0	186.1	124.7	90.8	73.3	65.1	82.5	92.6
77.5°	517.0	447.3	322.7	185.2	107.2	70.6	49.5	38.5	30.2	27.5	28.4
80°	321.8	275.9	184.2	99.9	56.8	39.4	31.2	26.6	22.0	19.2	18.3
82.5°	170.5	135.7	82.5	45.8	36.7	29.3	11.0	1.8	0.9	0.0	0.0
85°	76.1	55.0	39.4	34.8	14.7	6.4	3.7	2.8	0.9	0.0	0.0
87.5°	34.8	32.1	22.9	11.0	11.0	7.3	3.7	2.8	0.9	0.0	0.0
90°	17.4	9.2	10.1	13.8	12.8	8.2	4.6	2.8	0.9	0.0	0.0
92.5°	6.4	7.3	11.9	17.4	15.6	9.2	4.6	2.8	1.8	0.0	0.0
95°	6.4	8.2	13.8	20.2	18.3	10.1	4.6	2.8	1.8	0.0	0.0
97.5°	6.4	9.2	16.5	22.9	20.2	11.0	5.5	3.7	1.8	0.0	0.0
100°	8.2	10.1	19.2	26.6	22.9	13.8	6.4	4.6	2.8	1.8	1.8
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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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 CATALOG NUMBER: OVX35PXX3EF

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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)