

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: ITL53967_250MP

Luminaire Tested: **GMX25PXX3SFHS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: ITL53967_250MP
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX25PXX3SFHS
Description: 250W MH TYPE III AREA
WITH HOUSE SIDE SHIELD
Light Source: 250 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 22000 (1 lamp)
Luminaire Lumens: 11451.1 lumens
Efficiency: 52.1%
Efficacy: 40.5 lumens/watt
Luminous Opening: Circular (Dia: 1.74' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

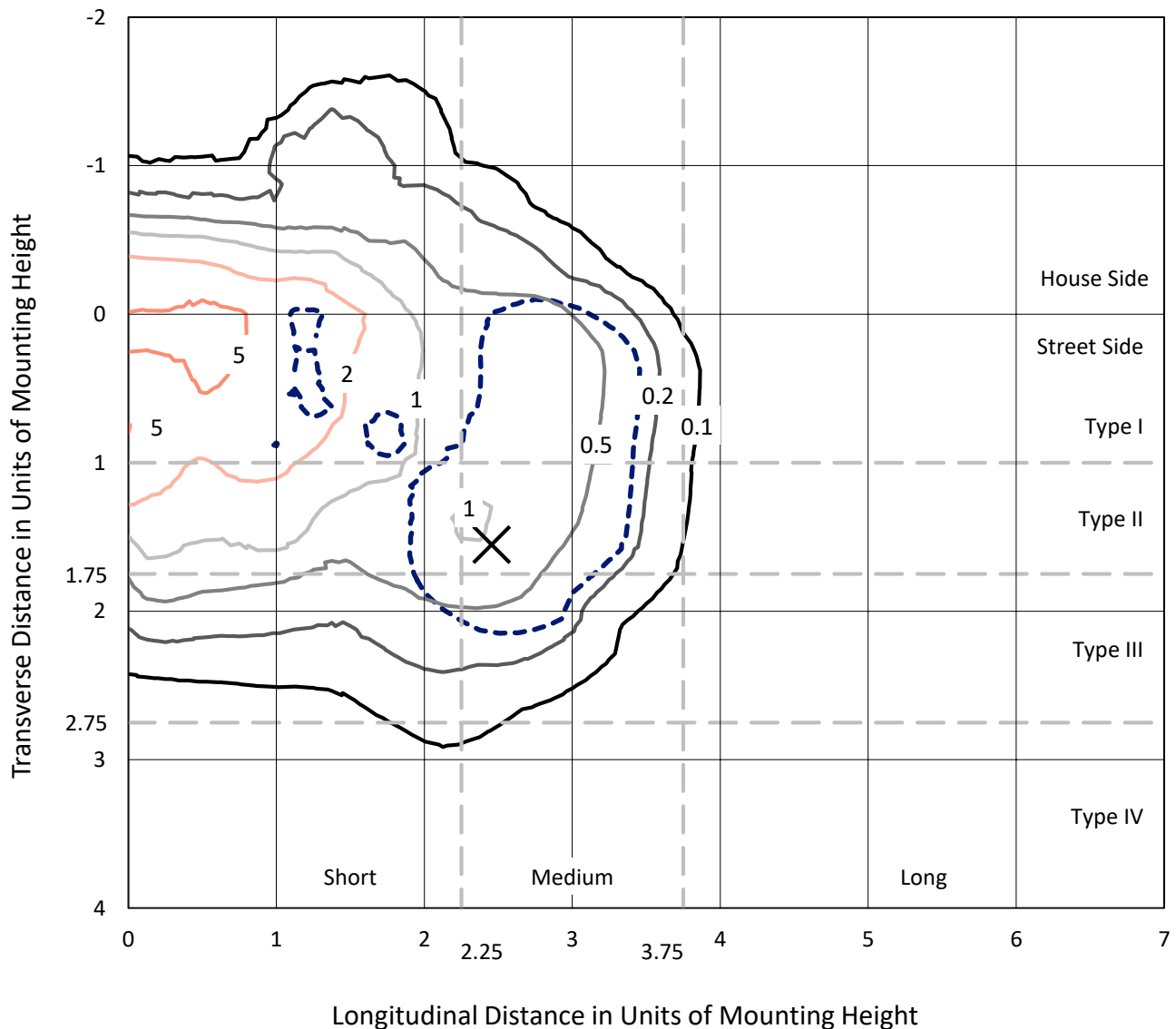
Input Watts (W): 283
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

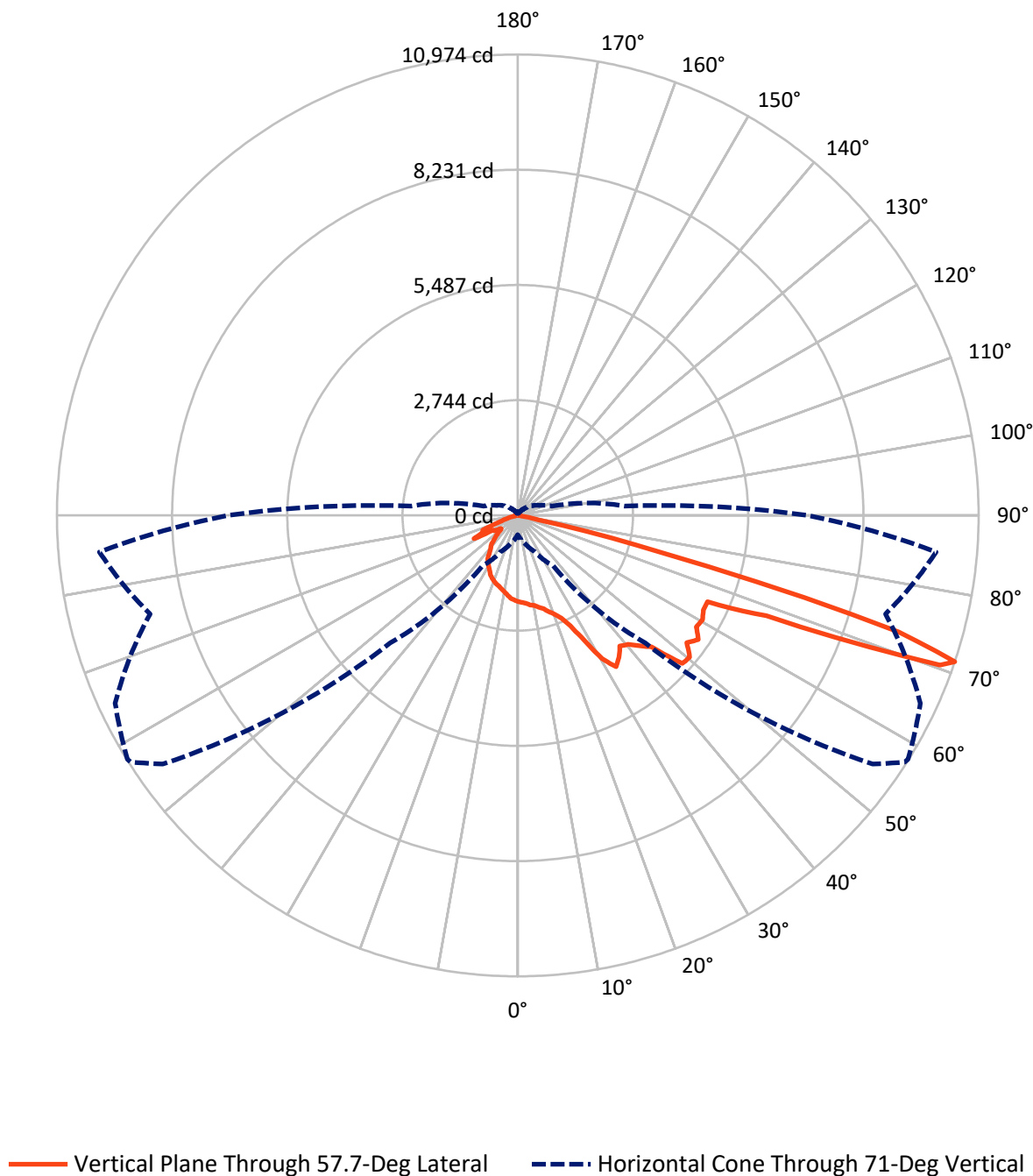
× Max cd
 --- 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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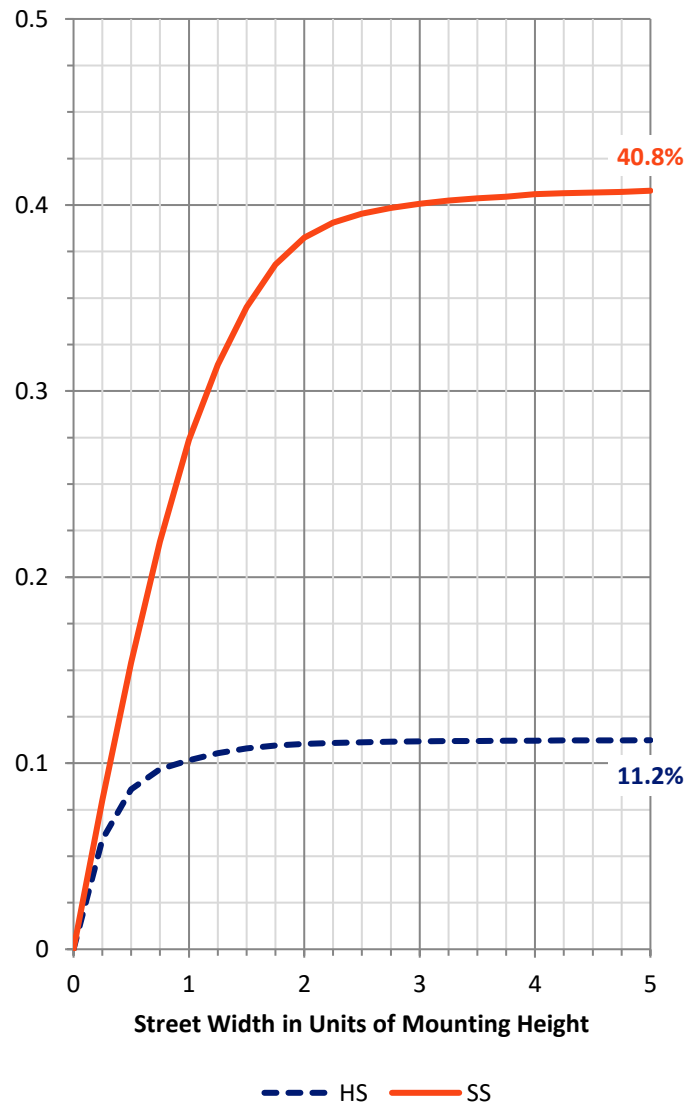
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2489.7	0.0	2489.7
	% Lamp	11.3	0.0	11.3
Street Side	Lumens	8961.4	0.0	8961.4
	% Lamp	40.7	0.0	40.7
Total	Lumens	11451.1	0.0	11451.1
	% Lamp	52.1	0.0	52.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	192.2	1.7	0.9
10°-20°	560.3	4.9	2.5
20°-30°	999.2	8.7	4.5
30°-40°	1489.4	13.0	6.8
40°-50°	1962.2	17.1	8.9
50°-60°	2354.8	20.6	10.7
60°-70°	2272.6	19.8	10.3
70°-80°	1579.1	13.8	7.2
80°-90°	41.4	0.4	0.2
90°-100°	0.0	0.0	0.0
100°-110°	0.0	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°	11451.1	100.0	52.1
0°-180°	11451.1	100.0	52.1

Coefficient of Utilization



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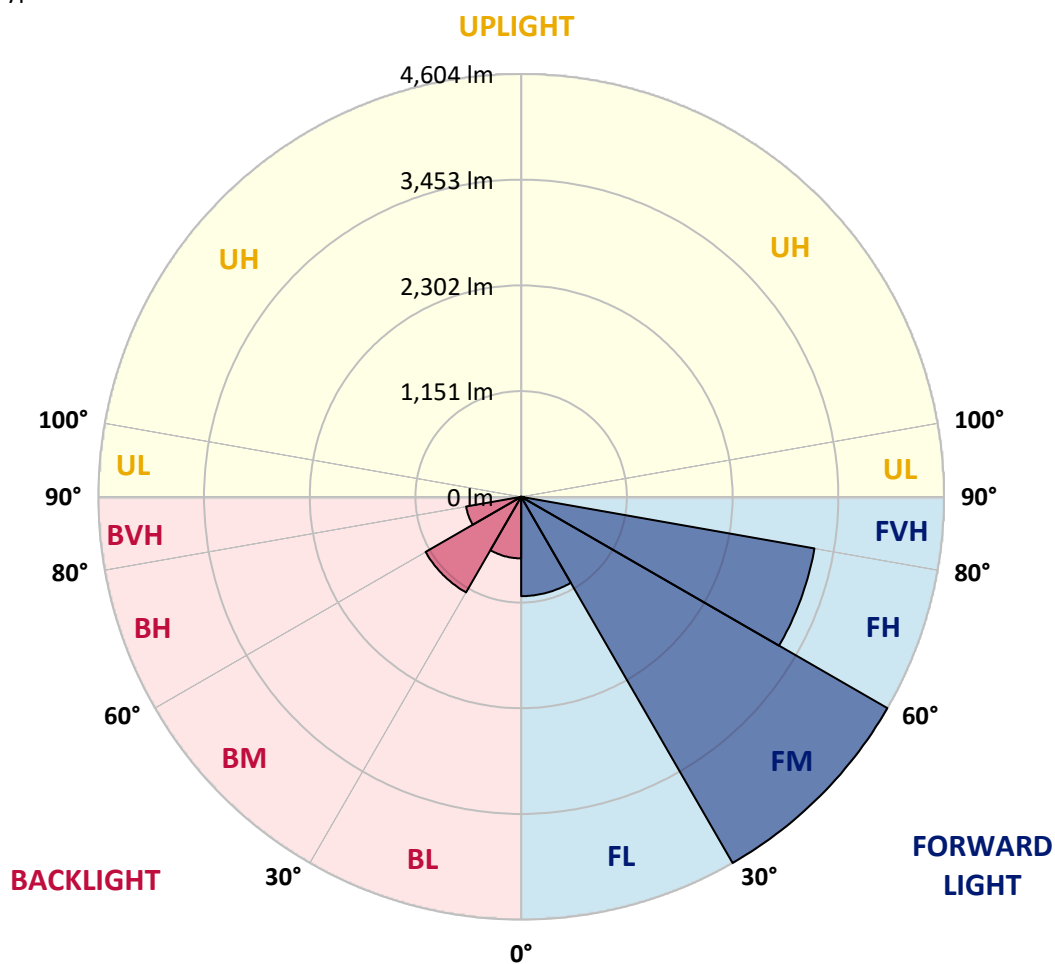
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1081.3	4.9			
FM	(30°-60°)	4604.2	20.9			
FH	(60°-80°)	3242.9	14.7			G2/5000
FVH	(80°-90°)	33.0	0.2			G1/100
BL	(0°-30°)	670.4	3.0	B2/1000		
BM	(30°-60°)	1202.1	5.5	B2/2500		
BH	(60°-80°)	608.8	2.8	B2/1000		G2/1000
BVH	(80°-90°)	8.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		10548.9	47.9			

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57.7°	65°	75°	85°
0°	2051.9	2051.9	2051.9	2051.9	2051.9	2051.9	2051.9	2051.9	2051.9	2051.9	2051.9
2.5°	2103.4	2089.5	2115.2	2089.5	2089.5	2089.5	2089.5	2076.6	2089.5	2089.5	2076.6
5°	2103.4	2115.2	2103.4	2089.5	2089.5	2103.4	2128.1	2103.4	2128.1	2128.1	2128.1
7.5°	2179.6	2179.6	2141.0	2141.0	2153.9	2153.9	2166.7	2153.9	2153.9	2153.9	2153.9
10°	2179.6	2166.7	2166.7	2166.7	2166.7	2179.6	2192.5	2179.6	2204.3	2218.2	2204.3
12.5°	2179.6	2166.7	2179.6	2192.5	2204.3	2204.3	2230.0	2244.0	2268.7	2282.6	2282.6
15°	2204.3	2192.5	2204.3	2218.2	2244.0	2282.6	2307.3	2307.3	2346.0	2358.8	2333.1
17.5°	2230.0	2218.2	2244.0	2256.9	2294.4	2371.7	2397.5	2410.3	2423.2	2461.9	2436.1
20°	2256.9	2230.0	2256.9	2282.6	2371.7	2436.1	2486.5	2512.3	2538.0	2691.5	2718.3
22.5°	2230.0	2244.0	2282.6	2321.3	2486.5	2538.0	2615.3	2654.0	2744.1	2999.5	3076.8
25°	2179.6	2192.5	2256.9	2371.7	2538.0	2628.2	2794.5	2909.4	3115.4	3513.6	3641.3
27.5°	2204.3	2192.5	2230.0	2333.1	2526.2	2705.5	3128.3	3346.1	3705.7	4075.9	4089.9
30°	2384.6	2346.0	2346.0	2371.7	2526.2	2909.4	3705.7	3961.1	4230.4	4257.3	4075.9
32.5°	2871.8	2782.7	2538.0	2538.0	2666.8	3281.8	4192.9	4294.8	4217.6	3961.1	3833.4
35°	3538.2	3423.4	2691.5	2782.7	2923.3	3781.9	4346.3	4154.2	3975.0	3999.7	4102.7
37.5°	4102.7	3961.1	2858.9	2949.1	3102.5	4192.9	4051.2	3949.3	4025.5	4243.3	4358.1
40°	4512.7	4333.5	3038.1	3063.9	3473.9	4243.3	3975.0	4038.3	4192.9	4307.7	4204.7
42.5°	4691.9	4383.9	3153.0	2884.7	3833.4	4128.5	4307.7	4243.3	4192.9	4192.9	4064.1
45°	4615.7	4204.7	3102.5	2474.7	3756.1	4333.5	4718.7	4461.2	4358.1	4307.7	4051.2
47.5°	4486.9	3986.8	3038.1	2218.2	3654.1	4948.4	5192.0	5269.3	5243.5	4935.5	5102.9
50°	3949.3	3513.6	2846.0	2192.5	3552.2	5077.2	5295.0	5306.8	5345.5	5500.0	6140.7
52.5°	3231.3	3063.9	2666.8	2474.7	3975.0	5808.0	5025.7	5038.5	5679.2	5538.6	5089.0
55°	2615.3	3102.5	2486.5	2768.8	3833.4	5230.6	5077.2	5217.8	5743.6	4935.5	4654.3
57.5°	2050.8	3076.8	2589.6	2808.5	4615.7	4115.6	5141.6	5012.8	5269.3	4730.5	5385.2
60°	1795.4	2923.3	2794.5	2987.7	5141.6	4128.5	4654.3	5051.4	5166.2	4909.8	5409.9
62.5°	1334.0	2268.7	2115.2	2641.1	3949.3	3333.3	4358.1	4962.3	6205.1	4601.8	4691.9
65°	974.4	1295.3	1308.2	1731.0	2423.2	2909.4	4307.7	4962.3	5012.8	4397.9	4192.9
67.5°	718.0	769.5	936.9	1281.4	1653.8	4089.9	5756.5	6384.3	5538.6	5127.6	5550.4
70°	513.0	538.7	718.0	1026.0	1435.9	4461.2	9717.6	10666.2	9807.7	7692.5	9256.1
71°	461.5	538.7	705.1	948.7	1460.6	4294.8	10319.6	10974.2	10577.2	9064.0	9999.8
72.5°	385.3	640.7	755.5	884.3	1756.8	3846.2	9141.3	9486.8	10345.4	9230.3	8409.4
75°	231.8	590.2	474.3	602.0	2076.6	2410.3	4204.7	3513.6	5166.2	3564.0	3115.4
77.5°	153.5	358.4	294.0	308.0	1230.9	1000.2	705.1	500.1	755.5	576.3	576.3
80°	50.4	50.4	269.4	167.4	961.6	654.6	153.5	103.0	128.8	128.8	179.2
82.5°	0.0	12.9	77.3	50.4	231.8	140.6	192.1	25.8	50.4	50.4	64.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	12.9	25.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2051.9	2051.9	2051.9	2051.9	2051.9	2051.9	2051.9	2051.9	2051.9	2051.9	2051.9
2.5°	2076.6	2063.7	2050.8	2039.0	2013.3	2000.4	1986.4	1986.4	1961.8	1974.6	2000.4
5°	2103.4	2103.4	2050.8	2013.3	1974.6	1910.2	1871.6	1833.0	1821.2	1795.4	1845.9
7.5°	2141.0	2115.2	2063.7	1986.4	1897.4	1833.0	1768.6	1718.1	1692.4	1692.4	1742.8
10°	2192.5	2166.7	2076.6	1948.9	1821.2	1718.1	1640.9	1589.4	1551.8	1563.6	1563.6
12.5°	2256.9	2218.2	2089.5	1910.2	1756.8	1640.9	1538.9	1487.4	1460.6	1410.1	1435.9
15°	2294.4	2256.9	2089.5	1871.6	1705.3	1551.8	1435.9	1345.8	1308.2	1281.4	1308.2
17.5°	2410.3	2346.0	2128.1	1871.6	1653.8	1487.4	1334.0	1243.8	1179.4	1154.7	1179.4
20°	2628.2	2526.2	2166.7	1845.9	1602.2	1398.3	1230.9	1127.9	1051.7	1026.0	1051.7
22.5°	2987.7	2858.9	2282.6	1833.0	1538.9	1320.0	1127.9	1013.1	922.9	897.2	922.9
25°	3576.9	3320.4	2384.6	1795.4	1474.5	1230.9	1026.0	884.3	808.1	769.5	795.2
27.5°	3999.7	3654.1	2384.6	1705.3	1384.4	1116.1	897.2	743.7	654.6	614.9	640.7
30°	3961.1	3614.4	2294.4	1653.8	1308.2	1013.1	769.5	602.0	525.9	500.1	513.0
32.5°	3743.2	3397.7	2166.7	1589.4	1243.8	922.9	654.6	500.1	411.0	372.4	385.3
35°	3999.7	3538.2	2103.4	1538.9	1154.7	819.9	564.5	397.1	308.0	269.4	282.2
37.5°	4257.3	3678.8	1986.4	1423.0	1013.1	679.3	411.0	256.5	192.1	167.4	179.2
40°	4115.6	3538.2	1910.2	1320.0	897.2	538.7	282.2	179.2	153.5	140.6	128.8
42.5°	4025.5	3449.2	1910.2	1281.4	819.9	411.0	243.6	179.2	167.4	153.5	153.5
45°	4257.3	3692.8	1871.6	1166.5	666.4	282.2	179.2	153.5	128.8	114.8	128.8
47.5°	5603.0	4475.1	1974.6	1090.3	538.7	256.5	192.1	167.4	128.8	128.8	128.8
50°	6179.3	4962.3	2179.6	974.4	372.4	205.0	167.4	128.8	103.0	103.0	103.0
52.5°	5345.5	4333.5	2294.4	897.2	358.4	269.4	167.4	128.8	103.0	103.0	77.3
55°	4999.9	4025.5	2500.5	858.5	474.3	513.0	167.4	114.8	103.0	90.1	103.0
57.5°	5564.4	4013.7	2013.3	833.9	614.9	769.5	167.4	128.8	103.0	90.1	77.3
60°	4999.9	3320.4	1640.9	755.5	666.4	640.7	167.4	128.8	103.0	77.3	77.3
62.5°	3807.6	2744.1	2039.0	808.1	1320.0	884.3	167.4	128.8	103.0	64.4	77.3
65°	3705.7	2654.0	2000.4	1000.2	743.7	590.2	167.4	128.8	90.1	64.4	50.4
67.5°	5102.9	2744.1	1499.2	718.0	974.4	602.0	153.5	114.8	77.3	50.4	50.4
70°	7320.1	2833.2	1295.3	693.3	513.0	358.4	140.6	103.0	77.3	50.4	50.4
71°	6897.3	2550.9	846.7	564.5	397.1	243.6	128.8	103.0	50.4	50.4	50.4
72.5°	5077.2	1910.2	693.3	513.0	308.0	179.2	114.8	90.1	50.4	38.6	50.4
75°	1948.9	910.0	448.6	320.9	192.1	140.6	77.3	64.4	50.4	38.6	50.4
77.5°	474.3	372.4	231.8	167.4	114.8	103.0	50.4	50.4	25.8	25.8	25.8
80°	179.2	167.4	128.8	103.0	64.4	77.3	38.6	25.8	12.9	12.9	25.8
82.5°	77.3	64.4	38.6	38.6	25.8	38.6	12.9	0.0	0.0	0.0	0.0
85°	25.8	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	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)