

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: McGRAW-EDISON

Report Number: 767398

Luminaire Tested: **GSL-XX-1000-HPS-XX-3V-SG-XX-X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 767398
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GSL-XX-1000-HPS-XX-3V-SG-XX-X
Description: LARGE ARCHITECTURAL AREA FIXTURE-VERTICAL LAMP-TYPE III DISTRIBUTION
Light Source: 1000 WATT HPS CLEAR E-25
Ballast/Driver: -

Summary

Lumens per Lamp: 140000 (1 lamp)
Luminaire Lumens: 93535.6 lumens
Efficiency: 66.8%
Efficacy: 93.5 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B5 - U3 - G5

Input Watts (W): 1000
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: 25 FT

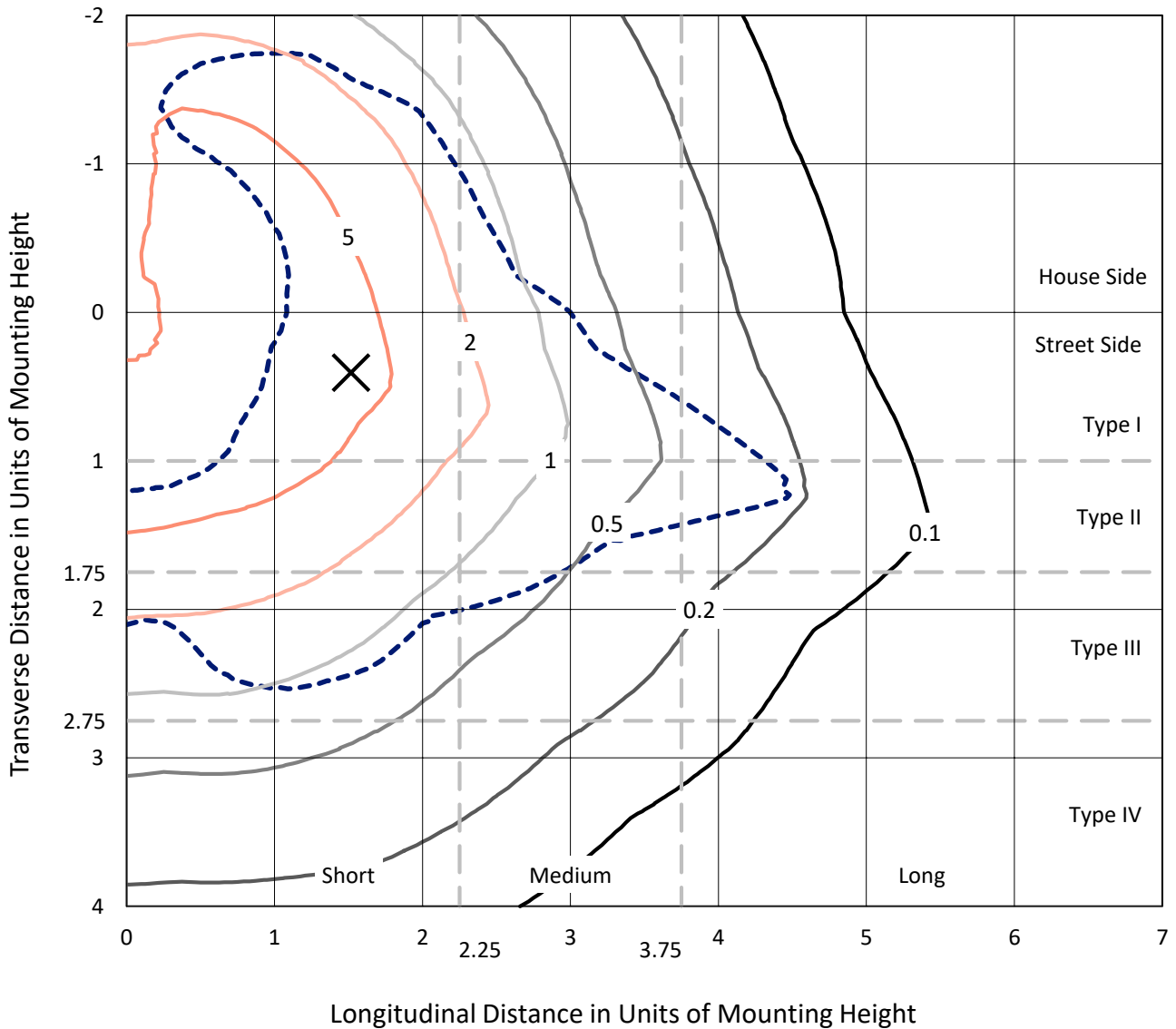


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

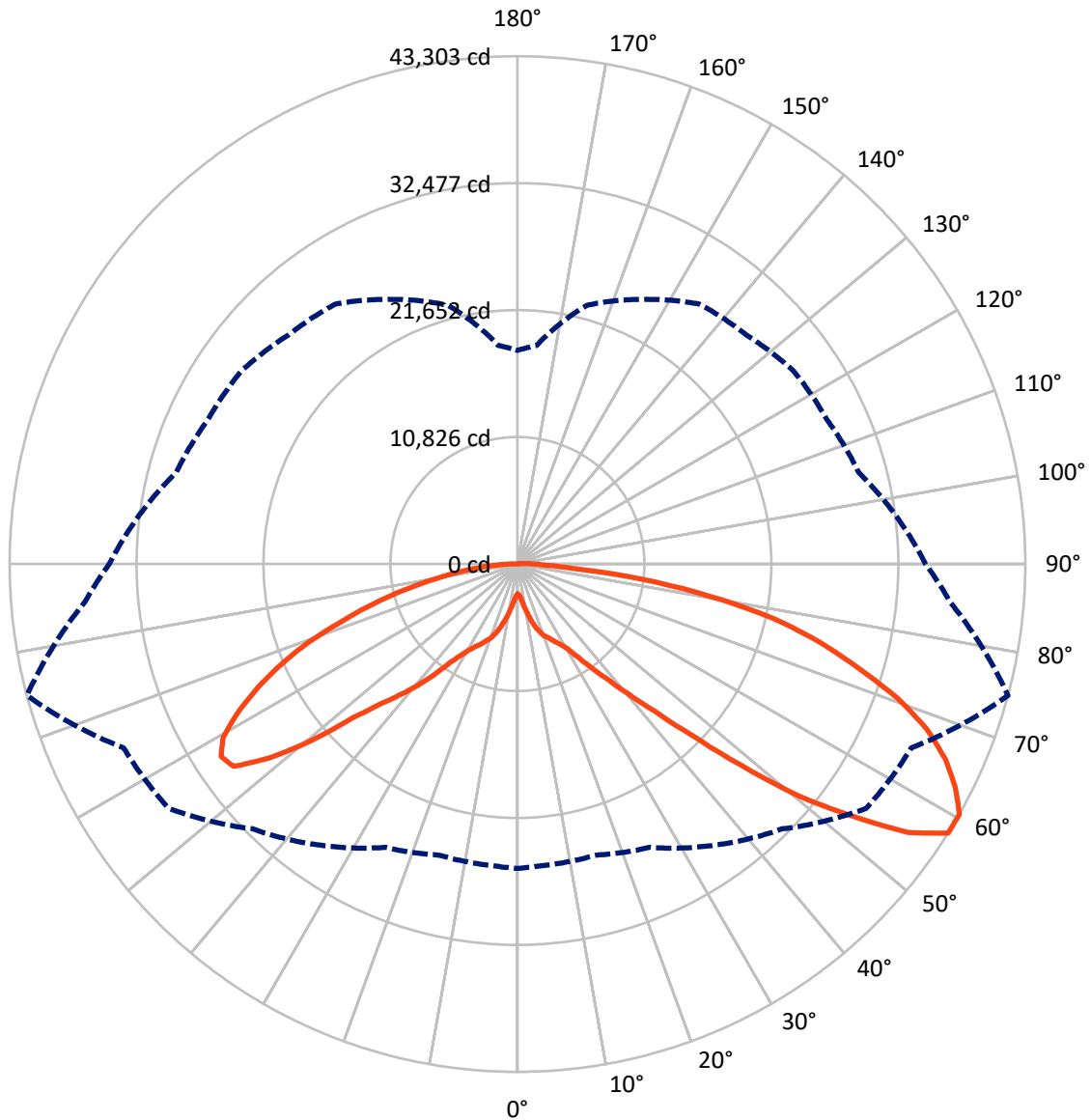


Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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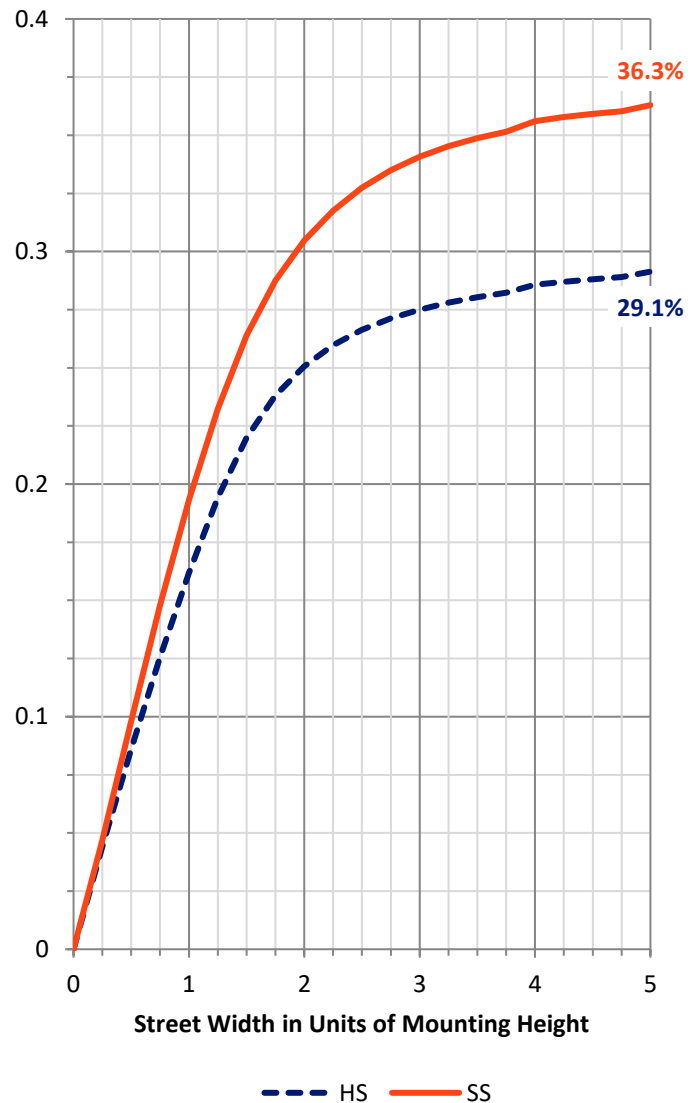
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	41563.1	102.3	41665.5
	% Lamp	29.7	0.1	29.8
Street Side	Lumens	51598.0	272.1	51870.1
	% Lamp	36.9	0.2	37.1
Total	Lumens	93161.2	374.4	93535.6
	% Lamp	66.5	0.3	66.8

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	293.9	0.3	0.2
10°-20°	1433.5	1.5	1.0
20°-30°	3284.4	3.5	2.3
30°-40°	6422.4	6.9	4.6
40°-50°	13352.4	14.3	9.5
50°-60°	24903.2	26.6	17.8
60°-70°	24287.5	26.0	17.3
70°-80°	14910.7	15.9	10.7
80°-90°	4273.2	4.6	3.1
90°-100°	352.2	0.4	0.3
100°-110°	44.5	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°	93161.2	99.6	66.5
0°-180°	93535.6	100.0	66.8



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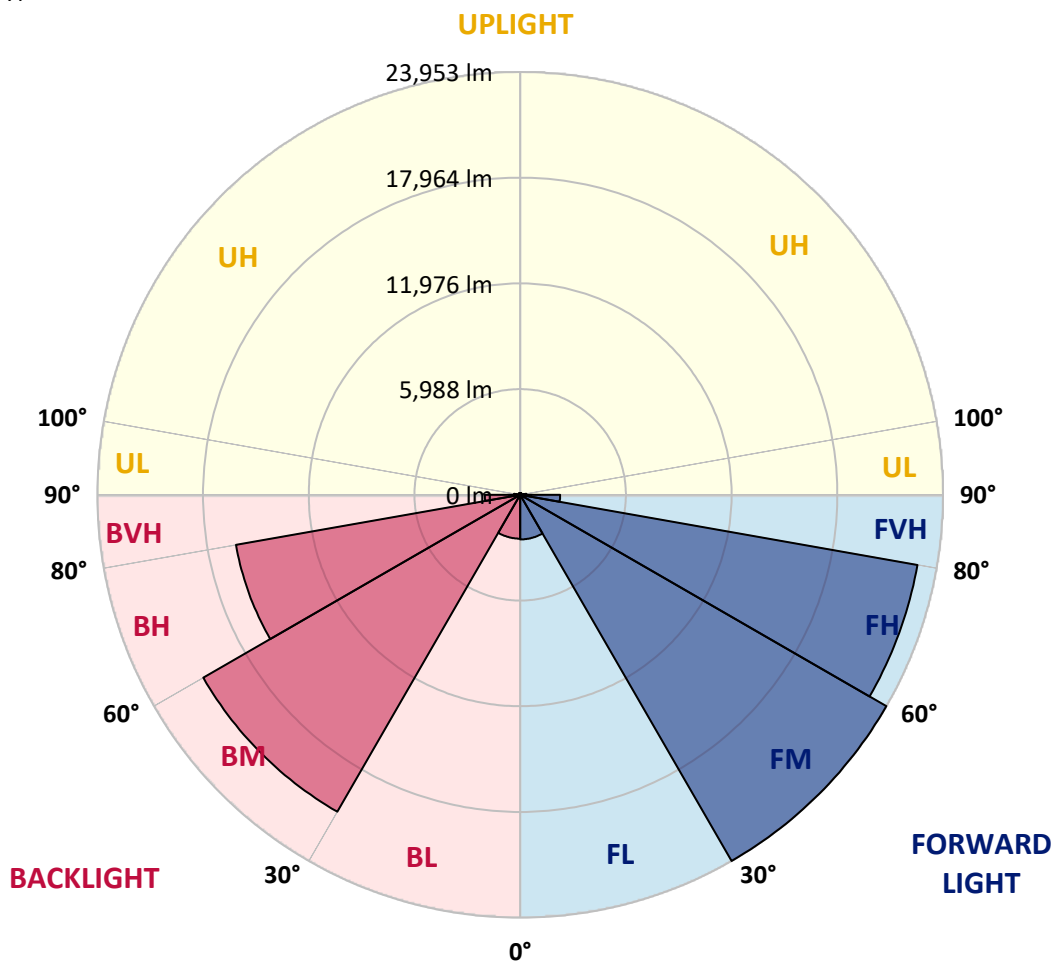
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2528.4	1.8			
FM	(30°-60°)	23952.6	17.1			
FH	(60°-80°)	22852.7	16.3			G5
FVH	(80°-90°)	2264.3	1.6			G5
BL	(0°-30°)	2483.3	1.8	B3/2500		
BM	(30°-60°)	20725.4	14.8	B5		
BH	(60°-80°)	16345.5	11.7	B5		G5
BVH	(80°-90°)	2008.8	1.4			G5
UL	(90°-100°)	352.2	0.3		U3/500	
UH	(100°-180°)	102.3	0.1		U3/500	
Trapped Light		46464.4	33.2			

BUG Rating: B5-U3-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2515	2515	2515	2515	2515	2515	2515	2515	2515	2515	2515
2.5°	2414	2414	2364	2364	2414	2464	2515	2515	2666	2666	2716
5°	2314	2364	2364	2464	2565	2615	2766	2766	2867	2967	2967
7.5°	2716	2666	2666	2766	2917	3068	3118	3219	3420	3521	3521
10°	3118	3169	3169	3269	3420	3571	3722	3772	4024	4225	4225
12.5°	3822	3772	3822	3923	4074	4275	4376	4426	4728	4879	4929
15°	4526	4476	4526	4627	4778	4929	5029	5130	5432	5583	5532
17.5°	5231	5130	5180	5180	5381	5532	5633	5734	6035	6086	6086
20°	5935	5834	5834	5834	5985	6186	6186	6236	6538	6488	6488
22.5°	6438	6438	6438	6387	6538	6790	6739	6739	6840	6890	6941
25°	7041	6991	6941	6890	7041	7393	7293	7242	7293	7343	7393
27.5°	7544	7444	7444	7393	7544	7896	7896	7796	7745	7796	7846
30°	7946	8047	7946	7946	8248	8399	8651	8500	8349	8399	8500
32.5°	8651	8701	8751	8902	8902	9254	9606	9606	9455	9455	9405
35°	9556	9656	9908	10109	10109	10763	11115	10763	10864	10813	10612
37.5°	10461	10612	10964	11316	11618	12574	12775	12071	12473	12020	11819
40°	11869	11970	12171	12724	13278	14736	14636	13831	14585	13881	13479
42.5°	13881	13982	13781	14384	15139	16849	16949	16446	17150	16094	15792
45°	16094	16094	15642	15994	16647	18911	19363	19414	20721	18609	18056
47.5°	17905	18207	17704	18257	18559	21375	22381	23085	25600	22079	21073
50°	20922	21476	20922	21325	21677	24795	26656	27461	31082	26455	25751
52.5°	23437	23588	23236	23638	24896	27259	30981	31032	35659	30327	29573
55°	25751	25399	24996	25751	27813	30227	34653	34904	40386	34703	33295
57.5°	25952	25801	25700	26656	29271	31937	36312	37067	43303	37017	34804
60°	24644	24292	24946	26254	28718	31283	35156	36212	43303	36664	34049
62.5°	22532	22230	23437	24946	27209	29372	32892	34753	41895	34351	31786
65°	20822	20520	22180	23487	25449	27058	30026	32842	40084	31384	29171
67.5°	19514	19363	21576	22733	23940	24745	27461	30579	37670	28165	26203
70°	18106	17804	20419	21425	22331	22230	24946	28265	34452	25197	23588
72.5°	15591	15189	17301	18609	19414	19263	21777	24192	30428	21375	19615
75°	11970	11869	13328	15088	15541	15642	18559	20419	26656	18106	15843
77.5°	8550	8349	9506	11417	11719	11920	14485	15541	22280	14384	12221
80°	5935	5784	6438	7946	8148	7946	9958	10310	16647	10511	8349
82.5°	4325	4174	4376	5180	5381	5734	6086	6538	10763	6186	4929
85°	3018	2917	2816	3118	3219	3470	3621	3621	4627	3319	3219
87.5°	2012	1911	1911	1961	2012	2112	2163	2112	2112	1961	1961
90°	1207	1157	1106	1207	1056	1006	1157	1207	1207	1006	855
95°	201	201	201	302	302	201	352	352	402	352	201
105°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
165°	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°	65°	75°	85°	90°
175°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2515	2515	2515	2515	2515	2515	2515	2515	2515	2515
2.5°	2716	2716	2666	2615	2716	2716	2716	2666	2615	2615
5°	2967	3018	2867	2867	2967	2867	2766	2766	2666	2615
7.5°	3521	3521	3319	3319	3319	3269	3219	3018	2867	2917
10°	4225	4124	3923	4024	3873	3822	3722	3420	3068	3018
12.5°	4879	4778	4627	4677	4577	4476	4376	3973	3370	3319
15°	5532	5432	5381	5331	5231	5080	5029	4526	3621	3621
17.5°	6035	6086	5935	5884	5784	5633	5633	5080	3772	3722
20°	6538	6639	6438	6337	6337	6236	6186	5432	3973	3923
22.5°	6991	7041	6890	6840	6890	6790	6840	5734	4426	4325
25°	7444	7494	7343	7293	7343	7343	7242	6236	4778	4627
27.5°	7896	7896	7745	7695	7745	7695	7494	6739	4979	4828
30°	8449	8449	8198	8198	8148	8148	7997	7293	5231	5029
32.5°	9405	9204	8902	8952	8902	8902	8952	7997	5734	5432
35°	10511	10210	9858	9858	9858	9858	9958	8902	6387	6035
37.5°	11970	11819	11266	11065	11115	11065	11216	9958	7192	6941
40°	13982	13429	12574	12322	12423	12372	12523	11266	8299	8047
42.5°	16396	15038	14133	13881	14183	13931	13630	12523	9204	8852
45°	18207	16748	15792	15591	15742	15491	15289	14082	9858	8952
47.5°	21023	19212	18609	18559	18357	18106	17754	16949	12171	11165
50°	25399	23286	22783	22632	22180	21425	21375	19615	15440	14485
52.5°	28969	26857	26203	25700	25197	24141	24192	22180	18207	17301
55°	32389	29724	28768	28416	27410	26807	25902	23689	19665	18810
57.5°	33244	30126	29120	28718	27612	27058	24896	22834	18709	18207
60°	32188	29120	28014	27561	26153	25499	23135	20973	16899	16396
62.5°	29523	27008	25952	25549	23990	23337	21073	18860	14887	14384
65°	26354	24544	23538	23236	21576	20922	18659	16446	12825	12171
67.5°	23337	21878	21274	20973	19263	18609	16396	14233	11014	10461
70°	20269	18961	18559	18408	17402	16346	14686	12423	9254	8751
72.5°	16999	15642	15491	15289	14686	14082	12423	10361	7293	6840
75°	14384	12775	12473	12322	11920	11618	10109	8299	5734	5231
77.5°	11417	9958	9757	9707	9556	9304	8198	6589	4426	4024
80°	8801	7343	7494	7444	7745	7745	7192	5935	4225	3923
82.5°	6186	5180	6337	5331	6337	6438	5985	5130	3822	3521
85°	4174	3370	4677	3772	4376	4174	3923	3420	2314	2112
87.5°	2263	1811	1961	1710	1710	1559	1459	1157	453	302
90°	855	704	704	654	604	654	604	503	302	101
95°	201	151	50	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)