

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: LUMARK

Report Number: 764995\_250MP

Luminaire Tested: **MPWR-65-X-250**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 764995\_250MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: MPWR-65-X-250  
Description: FLOODLIGHT - 6H x 5V  
Light Source: 250 WATT PULSE-START CLEAR ED-28 UNIVERSAL BURN  
Ballast/Driver: -

**Summary**

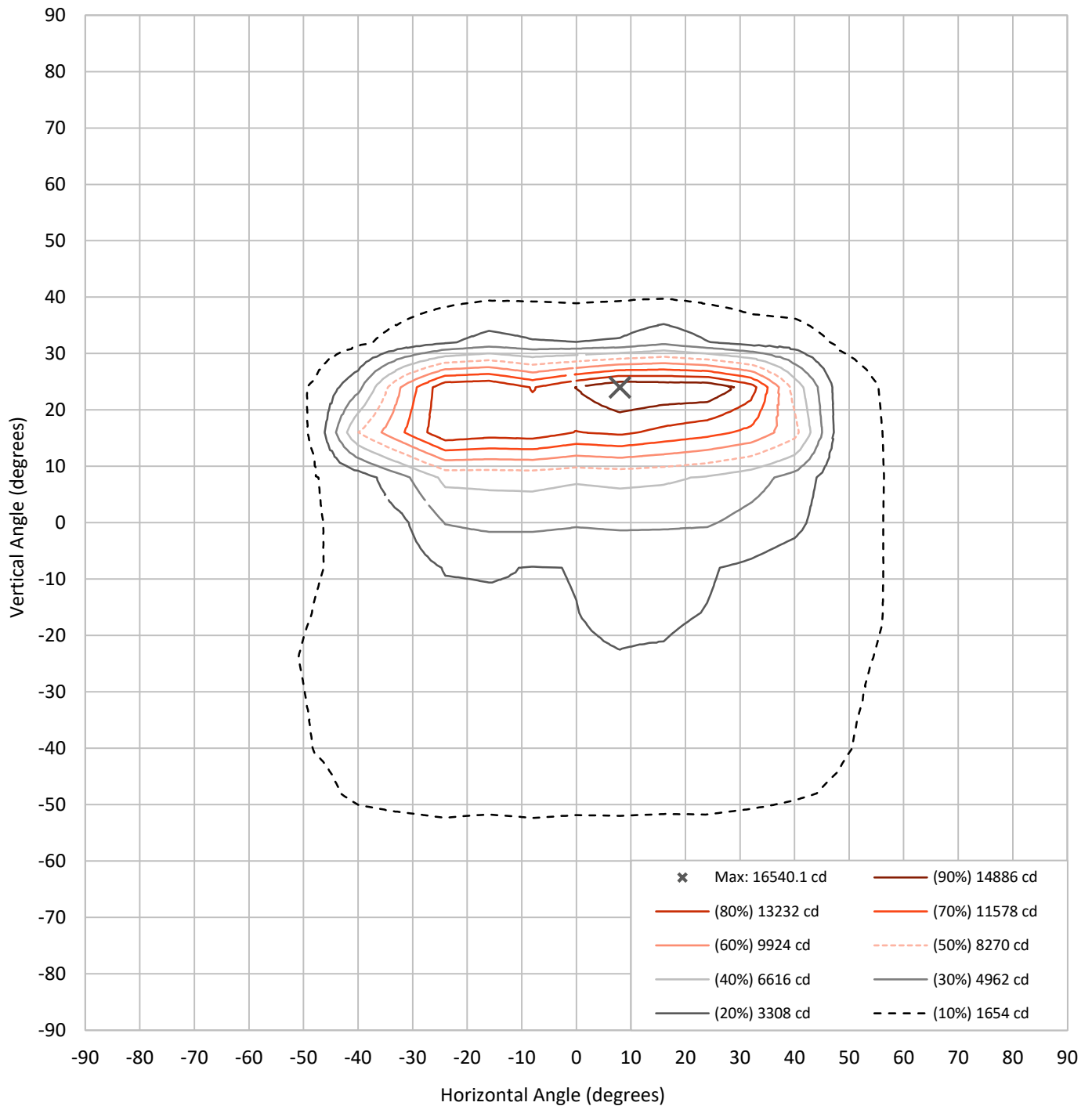
Lumens per Lamp:	22000 (1 lamp)	NEMA Type:	6H x 5V
Luminaire Lumens:	12586.4 lumens	Max Intensity:	16540.1 candela
Efficiency:	57.2%	Max Intensity Angle:	8°H x 24°V
Efficacy:	44.5 lumens/watt		
Luminous Opening:	Point Source (0' x 0' x 0')		
Beam Angle (50%):	73.7°H x 19.6°V	Field Angle (10%):	104.8°H x 91.3°V
Beam Lumens:	5075.1 lumens	Field Lumens:	11239.2 lumens
Beam Efficiency:	40.3%	Field Efficiency:	89.3%

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: 25 FT



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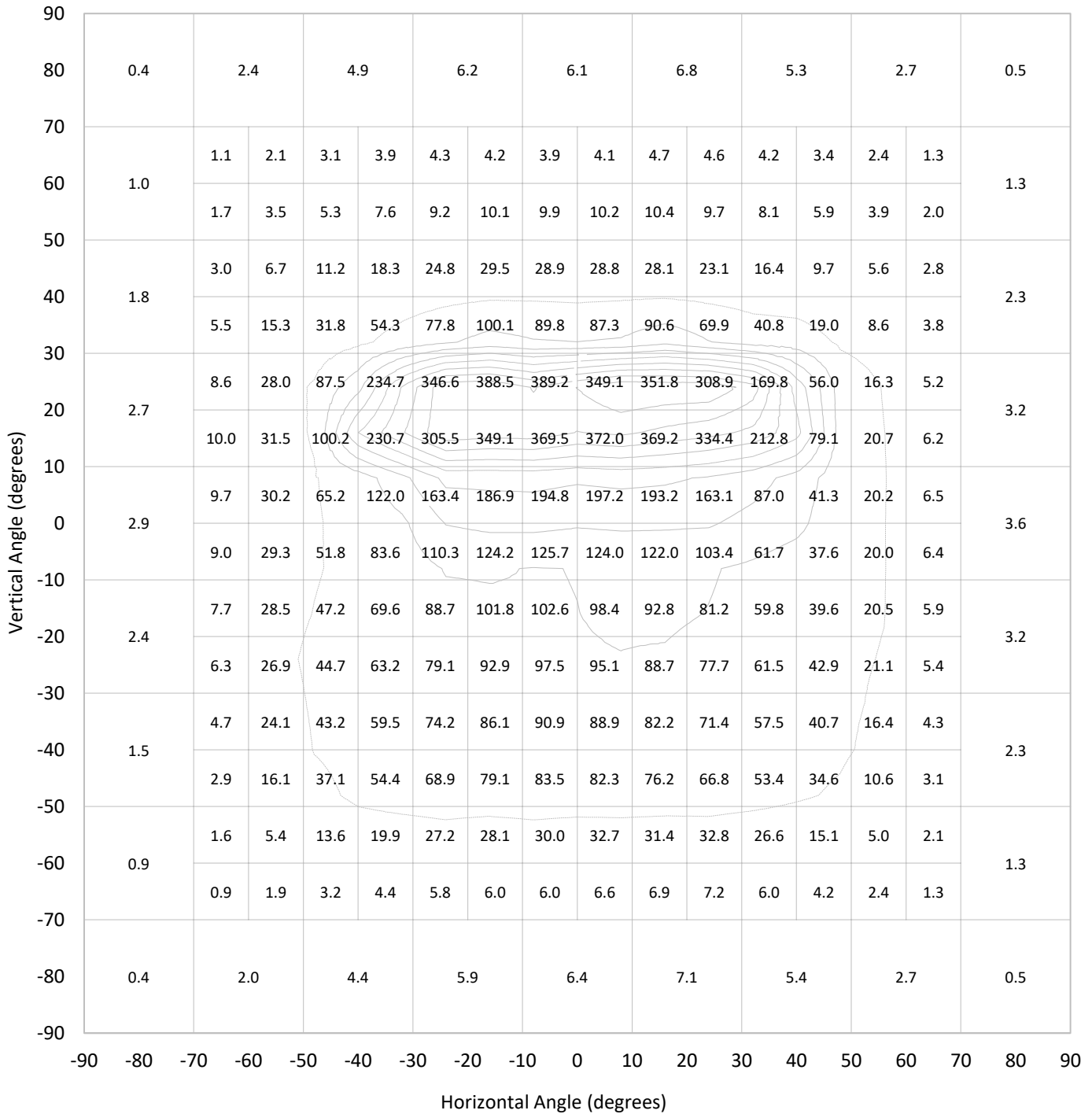
### Iso-Candela Plot





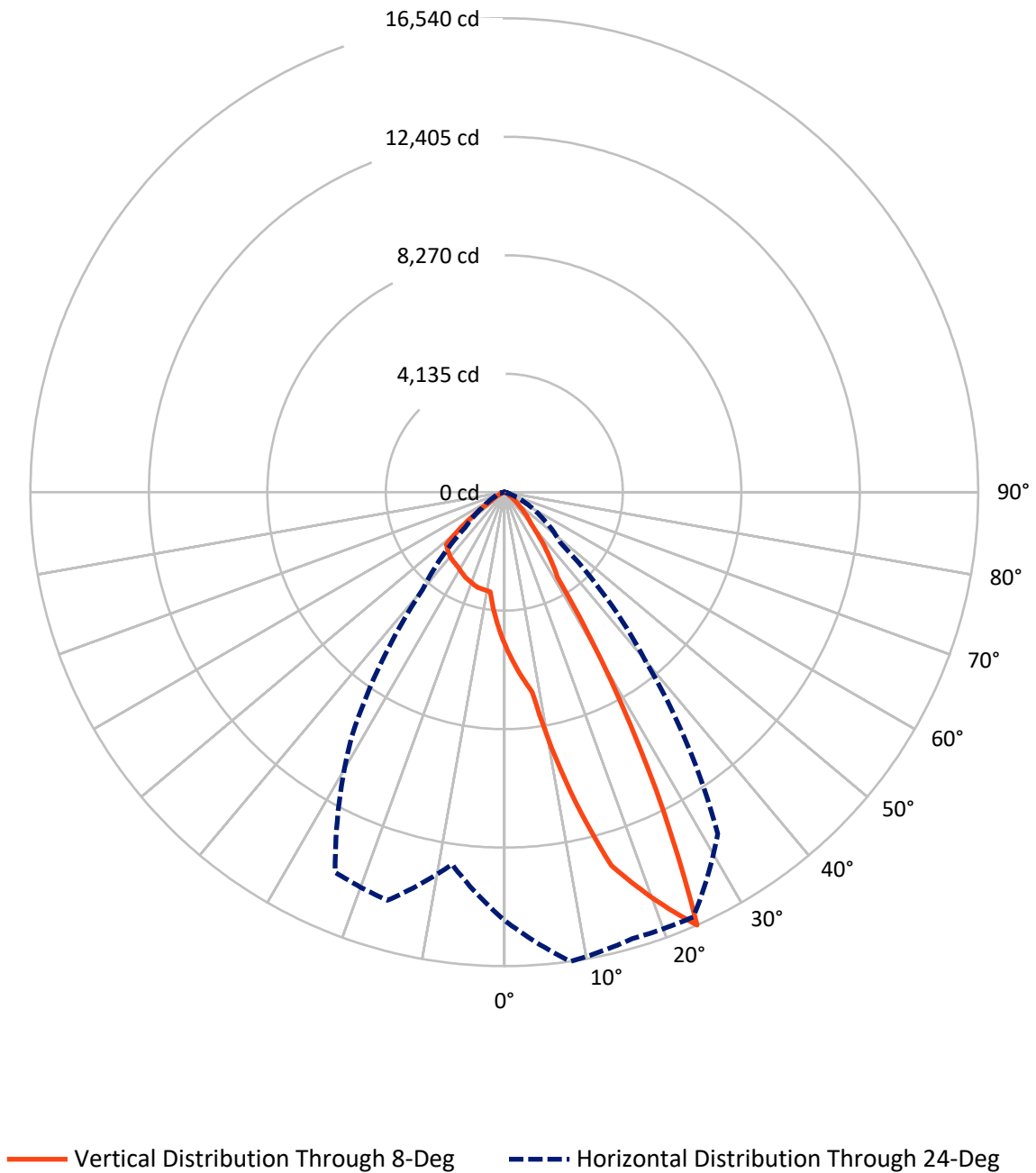
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### Lumen Table



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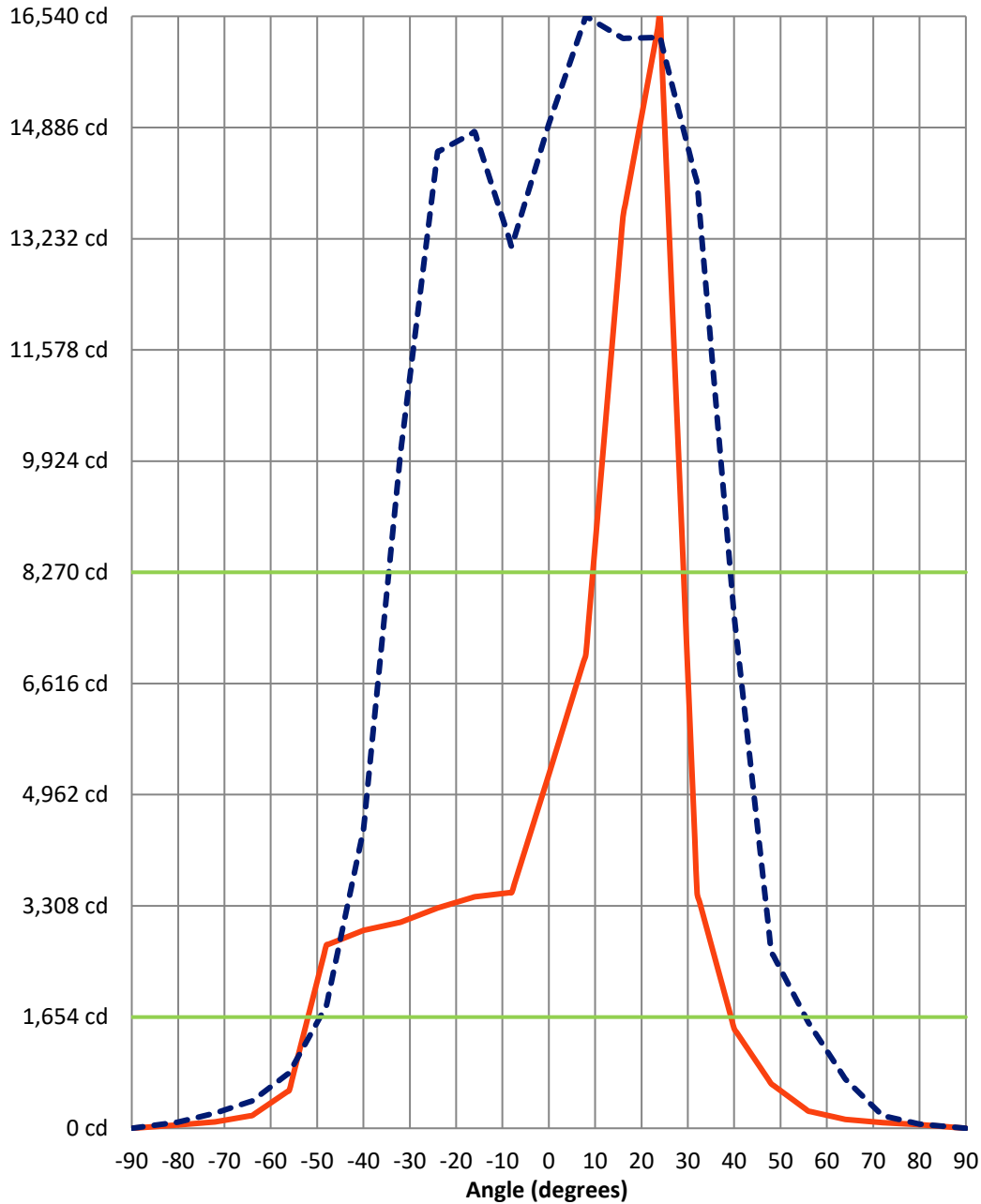
### Luminous Intensity Polar Plot





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### Luminous Intensity Plot



**Beam:**  
 H Angle: 73.7°  
 V Angle: 19.6°  
 Lumens: 5075.1  
 Efficiency: 40.3%

**Field:**  
 H Angle: 104.8°  
 V Angle: 91.3°  
 Lumens: 11239.2  
 Efficiency: 89.3%

**Spill:**  
 Lumens: 1347.1  
 Efficiency: 10.7%

— Vertical Distribution through 8-Deg  
 - - - Horizontal Distribution through 24-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-80°	-72°	-64°	-56°	-48°	-40°	-32°	-24°	-16°	-8°
90°	0	0	0	0	0	0	0	0	0	0	0
80°	0	24	35	41	48	53	58	63	64	62	58
72°	0	39	51	69	85	95	103	104	107	102	91
64°	0	45	74	104	141	160	170	173	170	164	144
56°	0	54	99	153	206	242	260	289	303	285	277
48°	0	64	122	204	285	334	476	560	603	646	663
40°	0	73	159	257	364	453	703	968	1259	1467	1465
32°	0	83	200	333	485	811	1360	2208	3077	3922	3439
24°	0	92	226	407	827	1823	4441	10045	14522	14821	13116
16°	0	99	248	455	1130	1755	8259	11379	14554	14014	14195
8°	0	104	264	480	1134	1577	2427	4484	7046	7103	7159
0°	0	105	272	481	1082	1522	2171	2987	5021	5355	5397
-8°	0	104	266	465	1105	1567	1978	2483	3388	3420	3256
-16°	0	99	250	415	1085	1688	2115	2591	2936	3079	3212
-24°	0	92	228	378	1155	1944	2225	2710	2912	3068	3150
-32°	0	83	205	334	879	1823	2143	2438	2623	2819	2945
-40°	0	73	163	287	501	1703	2076	2373	2592	2716	2842
-48°	0	64	124	229	302	1240	1934	2232	2422	2571	2680
-56°	0	54	94	157	212	308	822	852	1006	610	797
-64°	0	45	71	104	142	167	189	201	217	212	199
-72°	0	39	52	68	86	100	108	108	113	113	105
-80°	0	24	35	43	49	52	58	62	63	60	55
-90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	8°	16°	24°	32°	40°	48°	56°	64°	72°	80°
90°	0	0	0	0	0	0	0	0	0	0	0
80°	52	54	58	58	55	53	48	43	35	28	16
72°	76	84	91	96	97	97	91	81	61	41	27
64°	121	132	147	157	166	160	147	120	90	61	35
56°	246	256	259	264	251	235	203	176	131	74	43
48°	611	662	696	637	606	478	334	295	199	96	50
40°	1396	1481	1551	1350	1096	891	605	531	326	125	55
32°	3322	3501	4499	3367	2592	2505	1449	1031	527	154	60
24°	14938	16540	16213	16226	14056	7621	2630	1576	731	188	62
16°	13171	13556	12784	12121	11164	8868	2677	1668	815	205	64
8°	6858	7054	6884	6453	5650	4355	2287	1697	814	221	66
0°	5140	5261	5197	5129	4417	3759	2109	1685	704	216	65
-8°	3334	3508	3630	3418	3037	2430	1992	1689	689	201	66
-16°	3298	3443	3499	3275	2941	2627	1955	1678	524	180	64
-24°	3223	3277	3197	2893	2642	2368	1889	1595	435	159	61
-32°	3009	3065	2958	2735	2498	2209	1905	1447	322	127	58
-40°	2911	2944	2869	2691	2483	2191	1872	1193	211	106	51
-48°	2738	2724	2669	2495	2287	1866	1450	536	152	85	45
-56°	489	565	449	694	444	437	352	169	112	68	39
-64°	177	190	197	194	169	156	128	110	76	53	33
-72°	91	95	95	92	89	84	77	64	52	39	29
-80°	49	50	50	51	50	45	44	37	30	25	19
-90°	0	0	0	0	0	0	0	0	0	0	0





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**CANDELA DISTRIBUTION (continued):**

	90°
90°	0
80°	0
72°	0
64°	0
56°	0
48°	0
40°	0
32°	0
24°	0
16°	0
8°	0
0°	0
-8°	0
-16°	0
-24°	0
-32°	0
-40°	0
-48°	0
-56°	0
-64°	0
-72°	0
-80°	0
-90°	0

(END OF REPORT)