

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: P157680

Luminaire Tested: **VTS-E05-LED-E1-5XQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157680
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-E05-LED-E1-5XQ
Description: VENTUS LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15812.9 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U1 - G3

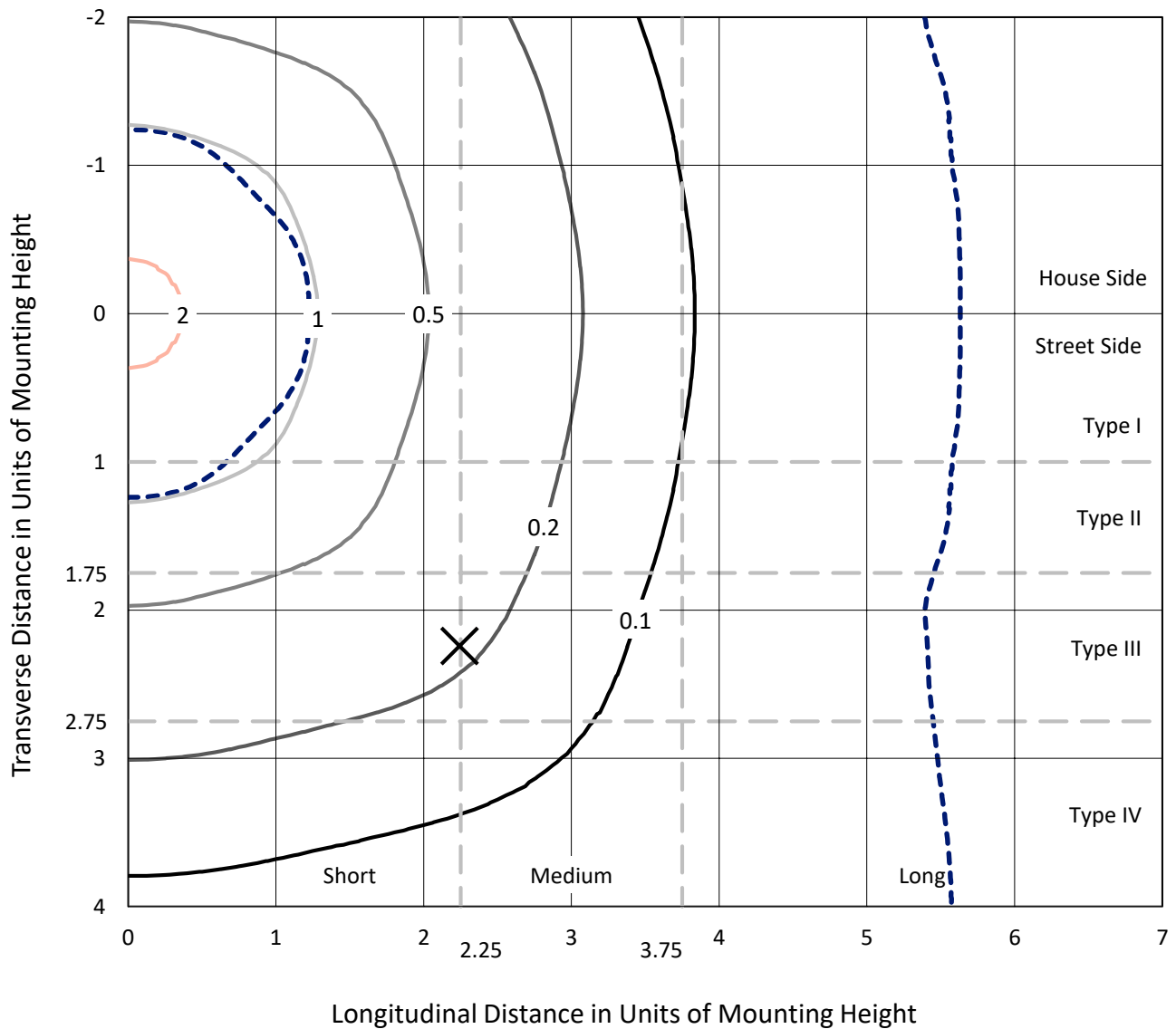
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

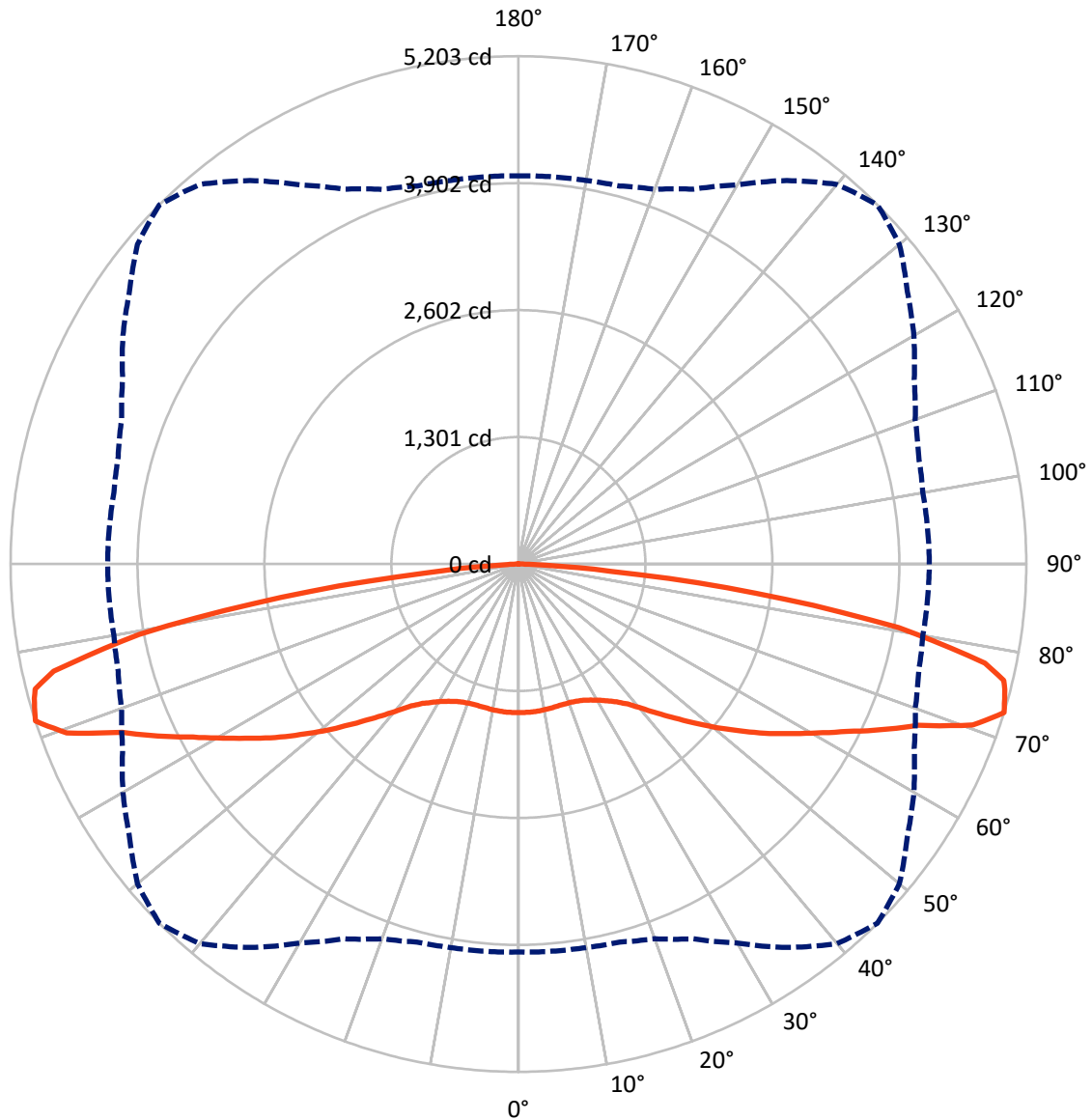


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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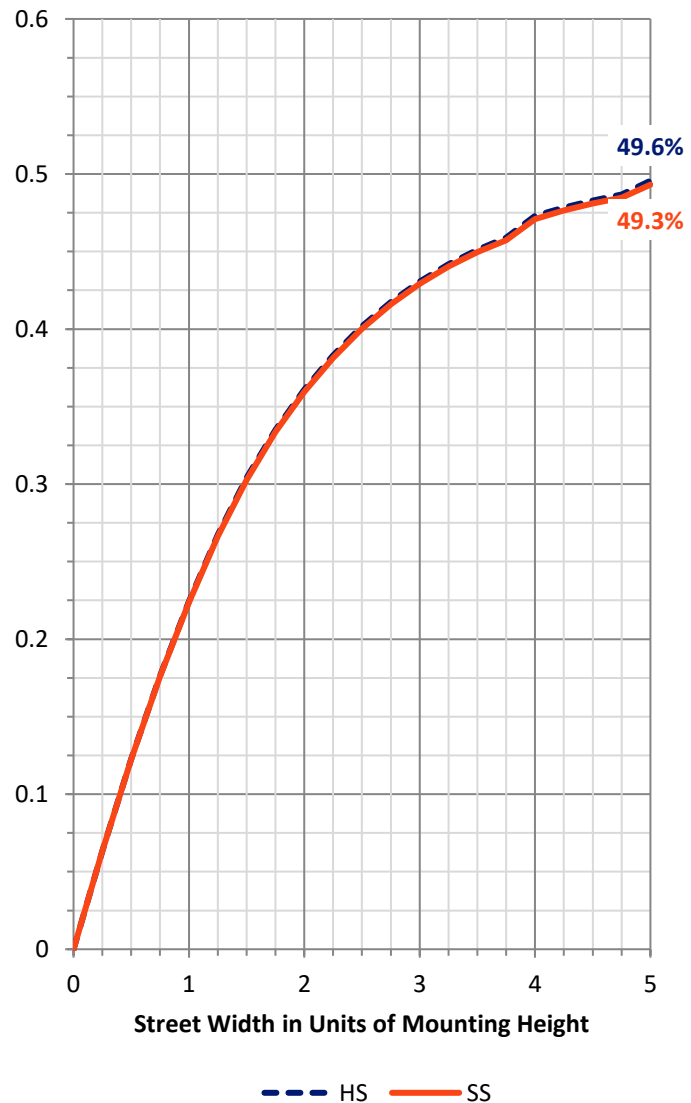
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7902.6	3.9	7906.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7902.6	3.9	7906.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15805.2	7.7	15812.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	0.9
10°-20°	428.9	2.7
20°-30°	717.2	4.5
30°-40°	1090.1	6.9
40°-50°	1726.5	10.9
50°-60°	2641.0	16.7
60°-70°	3779.7	23.9
70°-80°	4324.8	27.3
80°-90°	951.8	6.0
90°-100°	0.8	0.0
100°-110°	1.6	0.0
110°-120°	1.1	0.0
120°-130°	1.2	0.0
130°-140°	1.2	0.0
140°-150°	0.9	0.0
150°-160°	0.6	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-90°	15805.2	100.0
0°-180°	15812.9	100.0



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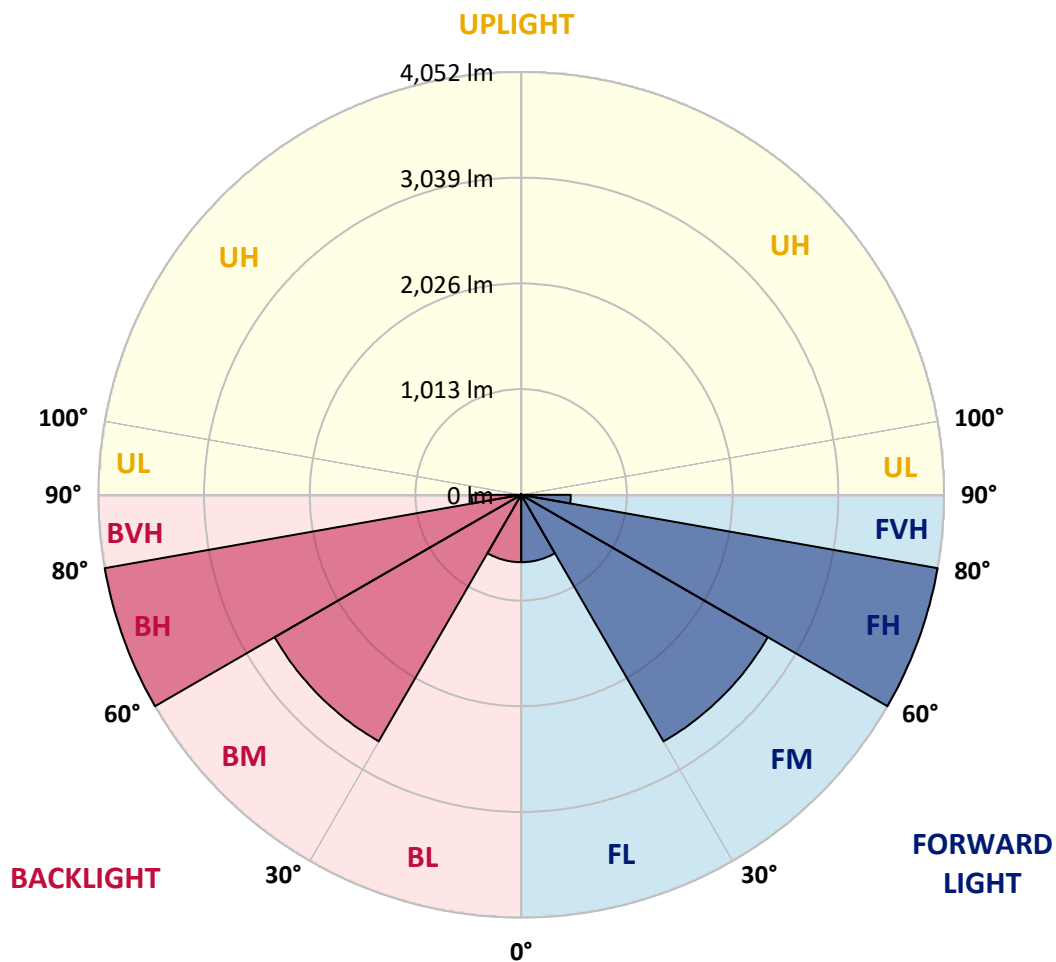
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	645.7	4.1			
FM	(30°-60°)	2728.8	17.3			
FH	(60°-80°)	4052.2	25.6			G2/5000
FVH	(80°-90°)	475.9	3.0			G3/500
BL	(0°-30°)	645.7	4.1	B2/1000		
BM	(30°-60°)	2728.8	17.3	B3/5000		
BH	(60°-80°)	4052.2	25.6	B4/5000		G2/5000
BVH	(80°-90°)	475.9	3.0			G3/500
UL	(90°-100°)	0.8	0.0		U1/10	
UH	(100°-180°)	3.9	0.0		U1/10	

BUG Rating: B4-U1-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1522	1522	1522	1522	1522	1522	1522	1522	1522	1522	1522
2.5°	1523	1521	1522	1524	1523	1523	1522	1522	1524	1522	1523
5°	1524	1522	1523	1524	1523	1524	1523	1523	1523	1522	1524
7.5°	1520	1520	1521	1521	1520	1521	1521	1521	1520	1520	1522
10°	1518	1517	1517	1518	1517	1517	1518	1518	1516	1516	1518
12.5°	1515	1514	1514	1514	1513	1513	1514	1514	1513	1512	1515
15°	1513	1512	1512	1512	1510	1511	1511	1511	1510	1509	1512
17.5°	1512	1511	1511	1511	1510	1510	1510	1510	1509	1509	1511
20°	1514	1514	1514	1514	1513	1513	1513	1514	1514	1514	1516
22.5°	1519	1519	1520	1521	1521	1523	1524	1525	1525	1526	1528
25°	1532	1532	1533	1534	1537	1539	1543	1545	1546	1546	1547
27.5°	1556	1557	1559	1561	1565	1568	1572	1576	1577	1578	1579
30°	1586	1587	1591	1593	1598	1604	1609	1613	1616	1618	1617
32.5°	1629	1631	1636	1639	1646	1652	1659	1665	1668	1671	1670
35°	1689	1694	1699	1702	1709	1714	1723	1729	1735	1733	1734
37.5°	1778	1782	1783	1785	1792	1796	1806	1814	1817	1819	1820
40°	1898	1898	1903	1899	1908	1909	1921	1932	1935	1943	1937
42.5°	2038	2037	2040	2037	2037	2047	2057	2077	2079	2089	2083
45°	2190	2190	2187	2188	2190	2201	2213	2235	2245	2251	2247
47.5°	2355	2351	2350	2349	2355	2367	2385	2406	2431	2433	2431
50°	2522	2521	2514	2520	2524	2530	2564	2592	2618	2634	2629
52.5°	2698	2689	2689	2689	2699	2718	2748	2786	2821	2838	2835
55°	2876	2873	2864	2860	2873	2900	2943	2989	3035	3061	3051
57.5°	3039	3034	3035	3036	3051	3087	3137	3198	3248	3276	3269
60°	3167	3161	3172	3175	3202	3262	3342	3419	3485	3513	3502
62.5°	3312	3308	3315	3314	3343	3410	3517	3640	3740	3776	3760
65°	3546	3534	3531	3520	3539	3591	3698	3841	4001	4093	4071
67.5°	3826	3823	3813	3807	3814	3879	3982	4120	4283	4410	4438
70°	4011	4015	4025	4040	4098	4224	4412	4621	4845	4940	4923
72.5°	3976	3982	3990	4009	4085	4236	4484	4796	5077	5203	5095
75°	3805	3810	3828	3857	3950	4133	4400	4731	5021	5147	5034
76°	3647	3663	3696	3730	3842	4041	4326	4679	4986	5114	5005
77.5°	3289	3303	3330	3389	3516	3771	4104	4451	4771	4886	4794
80°	2475	2487	2512	2583	2693	2851	3109	3448	3799	3950	3890
82.5°	1045	1059	1158	1261	1382	1553	1721	2021	2279	2451	2359
85°	115	142	175	238	292	389	484	666	842	949	839
87.5°	20	23	33	42	47	54	65	91	124	107	109
90°	3	3	3	3	3	3	3	2	2	2	2
92.5°	0	0	0	0	0	0	0	0	0	1	1
95°	0	0	0	0	0	0	1	1	1	1	1
97.5°	0	0	0	1	1	1	1	1	1	1	1
100°	1	1	1	1	1	1	1	1	2	2	2
102.5°	1	1	1	1	1	2	2	2	2	2	2
105°	1	1	1	2	2	2	2	2	2	2	2
107.5°	1	1	1	1	2	2	1	1	1	2	1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1	1	1	1	1	1	1	1	1	1	1
112.5°	1	1	1	1	1	1	1	1	1	1	1
115°	1	1	1	1	1	1	1	1	1	1	1
117.5°	2	2	2	1	1	1	1	1	1	1	1
120°	2	2	2	1	1	1	1	1	1	1	1
122.5°	2	2	2	2	1	1	1	1	1	1	1
125°	2	2	2	2	1	1	1	1	1	1	1
127.5°	2	2	2	2	1	1	1	1	1	1	1
130°	2	2	2	2	2	1	1	1	1	1	1
132.5°	2	2	2	2	1	1	1	1	1	1	1
135°	2	2	2	2	2	1	1	1	1	1	1
137.5°	2	2	2	2	2	1	1	1	1	1	1
140°	2	2	2	2	2	1	1	1	1	1	1
142.5°	2	2	2	2	1	1	1	1	1	1	1
145°	2	2	2	2	2	1	1	1	1	0	1
147.5°	2	2	2	2	2	1	1	1	1	1	1
150°	2	2	2	2	2	1	1	1	0	0	0
152.5°	2	2	2	2	2	1	1	1	1	0	0
155°	2	2	2	2	2	1	1	1	1	0	1
157.5°	2	2	2	2	1	1	1	1	0	0	0
160°	2	2	2	2	1	1	1	1	0	0	0
162.5°	2	2	2	2	1	1	1	1	0	0	0
165°	2	2	2	2	1	1	1	1	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1522	1522	1522	1522	1522	1522	1522	1522
2.5°	1522	1522	1524	1523	1523	1524	1526	1525
5°	1523	1524	1522	1523	1524	1524	1525	1524
7.5°	1521	1521	1521	1522	1523	1522	1523	1523
10°	1517	1518	1517	1519	1520	1520	1521	1521
12.5°	1514	1514	1514	1516	1517	1517	1518	1517
15°	1511	1511	1510	1512	1514	1514	1515	1515
17.5°	1510	1510	1509	1511	1513	1513	1514	1514
20°	1513	1514	1512	1514	1516	1517	1517	1517
22.5°	1525	1524	1521	1522	1523	1523	1523	1523
25°	1543	1541	1538	1537	1536	1535	1535	1535
27.5°	1574	1571	1566	1565	1564	1562	1562	1562
30°	1611	1607	1601	1599	1596	1594	1593	1592
32.5°	1664	1656	1649	1644	1641	1635	1634	1632
35°	1725	1719	1709	1706	1701	1698	1697	1692
37.5°	1809	1802	1793	1791	1790	1787	1787	1786
40°	1926	1919	1911	1903	1905	1906	1906	1902
42.5°	2069	2058	2042	2047	2044	2040	2048	2043
45°	2232	2217	2205	2200	2200	2195	2203	2203
47.5°	2413	2389	2367	2368	2360	2362	2367	2374
50°	2604	2572	2551	2541	2533	2536	2545	2547
52.5°	2802	2763	2735	2720	2710	2714	2721	2727
55°	3008	2965	2923	2907	2895	2903	2904	2912
57.5°	3223	3164	3115	3091	3079	3087	3093	3101
60°	3440	3372	3314	3286	3269	3280	3294	3298
62.5°	3692	3598	3533	3493	3485	3496	3500	3512
65°	3990	3877	3787	3738	3736	3742	3751	3754
67.5°	4330	4204	4083	4034	4015	4033	4042	4054
70°	4810	4637	4462	4353	4307	4293	4297	4310
72.5°	4864	4678	4474	4326	4245	4208	4207	4209
75°	4746	4449	4305	4135	4020	3960	3952	3951
76°	4687	4336	4128	3993	3855	3794	3785	3780
77.5°	4438	4061	3748	3666	3534	3457	3473	3460
80°	3558	3184	2889	2658	2665	2609	2586	2579
82.5°	2097	1790	1464	1273	1091	1043	898	865
85°	670	475	288	209	142	119	93	85
87.5°	89	70	57	55	50	43	28	20
90°	1	1	1	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0
95°	1	1	1	1	0	0	0	0
97.5°	1	1	1	1	1	1	1	1
100°	2	1	1	1	1	1	1	1
102.5°	2	2	2	2	1	1	1	1
105°	2	2	2	2	2	2	2	2
107.5°	2	2	2	2	2	2	2	2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	1	1	1	1	1	2	2	2
112.5°	1	1	1	1	1	1	1	2
115°	1	1	1	1	1	1	1	2
117.5°	1	1	1	1	1	2	2	2
120°	1	1	1	1	1	2	2	2
122.5°	1	1	1	1	2	2	2	2
125°	1	1	1	1	2	2	2	2
127.5°	1	1	1	1	2	2	2	2
130°	1	1	1	2	2	2	2	2
132.5°	1	1	1	2	2	2	2	2
135°	1	1	1	2	2	2	2	2
137.5°	1	1	1	2	2	2	2	2
140°	1	1	1	2	2	2	2	2
142.5°	1	1	1	2	2	2	2	2
145°	1	1	1	1	2	2	2	2
147.5°	1	1	1	2	2	2	2	2
150°	1	1	1	1	2	2	2	2
152.5°	1	1	1	1	2	2	2	2
155°	1	1	1	2	2	2	2	2
157.5°	1	1	1	1	2	2	2	2
160°	1	1	1	1	2	2	2	2
162.5°	1	1	1	2	2	2	2	2
165°	1	1	1	2	2	2	2	2
167.5°	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0

(END OF REPORT)