

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1427551

Luminaire Tested: SQ2W-BBM-K-125U-100D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1427551  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2104-222-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-BBM-K-125U-100D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - BLACK DISCREET BAFFLE, MEDIUM 80-DEGREE OPTIC  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

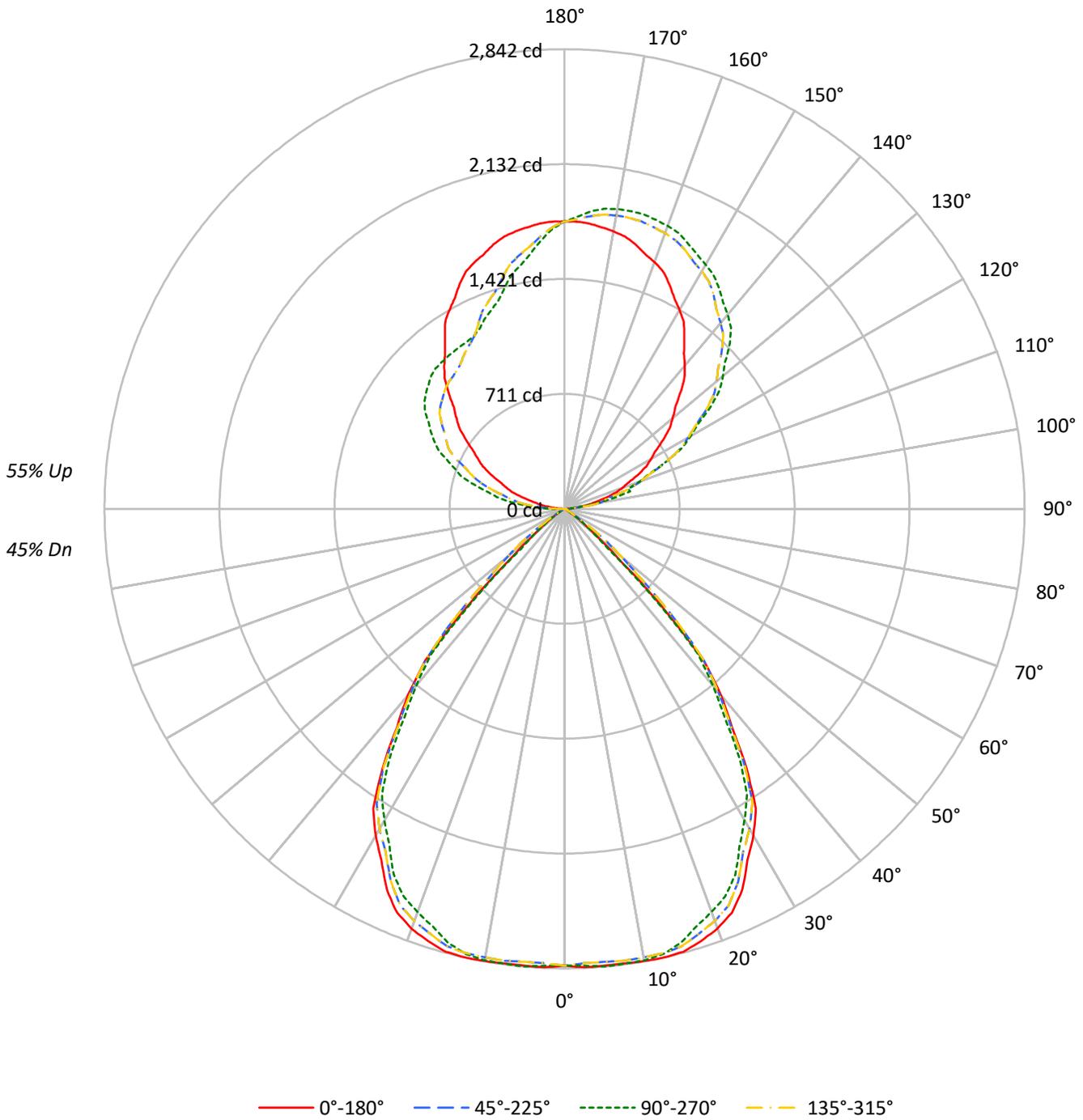
Lumens per Lamp: N/A  
Luminaire Lumens: 9415.4 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: 24 FT

TEST NUMBER: P1427551

CATALOG NUMBER: SQ2W-BBM-K-125U-100D-L940-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	98	95	92	89	90	87	85	82	73	71	70	60	59	58	48	47	47	41
2	91	85	80	76	84	78	74	70	66	63	61	55	53	51	45	43	42	38
3	84	76	70	65	78	71	66	61	60	56	53	50	48	46	41	40	38	34
4	78	69	62	57	72	64	58	54	55	51	47	46	43	41	38	36	35	31
5	73	62	55	50	67	58	52	47	50	46	42	43	39	37	36	33	32	28
6	67	57	50	45	62	53	47	42	46	41	38	39	36	33	33	31	29	26
7	63	52	45	40	58	49	42	38	42	37	34	36	33	30	31	28	26	24
8	59	48	41	36	54	45	38	34	39	34	31	34	30	27	29	26	24	22
9	55	44	37	32	51	41	35	31	36	31	28	31	28	25	27	24	22	20
10	51	40	34	29	48	38	32	28	33	29	26	29	25	23	25	22	20	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	45614	45614	45614	45614
5°	45972	46040	45972	46040
10°	46549	46480	46549	46480
15°	47389	46443	47389	46443
20°	47449	45604	47449	45604
25°	46275	44464	46275	44464
30°	43500	41472	43500	41472
35°	38608	37159	38608	37159
40°	31663	29967	31663	29967
45°	18879	17716	18879	17716
50°	5893	5574	5893	5574
55°	2227	2227	2227	2227
60°	136	45	136	45
65°	0	0	0	0
70°	0	0	0	0
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 22100 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.1	2.9
10°-20°	791.3	8.4
20°-30°	1164.1	12.4
30°-40°	1189.8	12.6
40°-50°	685.4	7.3
50°-60°	117.9	1.3
60°-70°	4.2	0.0
70°-80°	0.0	0.0
80°-90°	9.4	0.1
90°-100°	141.3	1.5
100°-110°	412.2	4.4
110°-120°	672.6	7.1
120°-130°	853.5	9.1
130°-140°	913.3	9.7
140°-150°	852.8	9.1
150°-160°	701.7	7.5
160°-170°	470.6	5.0
170°-180°	167.1	1.8
0°-30°	2225.5	23.6
0°-40°	3415.3	36.3
0°-60°	4218.7	44.8
0°-90°	4232.4	45.0
90°-120°	1226.1	13.0
90°-150°	3845.7	40.8
90°-180°	5185.0	55.1
0°-180°	9415.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2825	2825	2825	2825	2825	
5°	2836	2841	2836	2841	2836	271
15°	2835	2778	2835	2778	2835	798
25°	2598	2496	2598	2496	2598	1185
35°	1959	1885	1959	1885	1959	1210
45°	827	776	827	776	827	640
55°	79	79	79	79	79	84
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	5	40	5	77	5	4
95°	56	41	56	242	56	67
105°	262	420	262	578	262	279
115°	502	696	502	857	502	495
125°	743	1103	743	1051	743	664
135°	1010	1444	1010	1164	1010	780
145°	1290	1665	1290	1189	1290	807
155°	1532	1808	1532	1234	1532	704
165°	1693	1885	1693	1421	1693	477
175°	1770	1846	1770	1666	1770	168
180°	1776	1776	1776	1776	1776	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2
2.5°	2837.6	2834.1	2830.6	2822.2	2812.1	2812.9	2824.4	2832.5	2830.0	2827.4	2830.0
5°	2836.5	2833.3	2830.2	2821.4	2810.7	2813.9	2830.8	2843.2	2842.0	2840.7	2842.0
7.5°	2834.8	2832.7	2830.5	2824.3	2816.8	2820.0	2833.9	2843.6	2840.5	2837.3	2840.5
10°	2839.3	2838.7	2838.1	2828.5	2815.9	2816.9	2831.3	2841.4	2838.2	2835.1	2838.2
12.5°	2841.6	2845.5	2849.4	2835.6	2816.0	2812.0	2823.4	2830.5	2824.9	2819.2	2824.9
15°	2835.1	2845.7	2856.4	2837.0	2807.4	2793.6	2795.5	2794.9	2786.7	2778.5	2786.7
17.5°	2803.4	2818.5	2833.6	2807.8	2768.5	2745.4	2738.5	2730.4	2718.9	2707.3	2718.9
20°	2761.6	2779.2	2796.8	2768.6	2725.3	2697.7	2685.7	2674.3	2664.2	2654.2	2664.2
22.5°	2702.8	2718.9	2734.9	2708.0	2666.6	2638.5	2623.5	2610.3	2602.3	2594.2	2602.3
25°	2597.6	2608.3	2619.0	2591.5	2551.3	2525.6	2514.3	2504.7	2500.3	2495.9	2500.3
27.5°	2448.7	2451.7	2454.7	2432.8	2402.7	2380.6	2366.5	2354.5	2348.9	2343.2	2348.9
30°	2333.3	2333.3	2333.3	2316.4	2293.8	2274.9	2259.9	2245.9	2235.2	2224.5	2235.2
32.5°	2198.8	2197.3	2195.8	2183.4	2167.3	2150.9	2134.4	2119.3	2108.6	2097.9	2108.6
35°	1958.8	1965.7	1972.6	1964.0	1950.2	1935.1	1918.8	1904.2	1894.8	1885.3	1894.8
37.5°	1699.1	1701.7	1704.3	1697.2	1686.8	1672.7	1655.2	1640.0	1632.1	1624.2	1632.1
40°	1502.3	1503.0	1503.6	1494.8	1482.9	1470.6	1458.0	1445.6	1433.7	1421.8	1433.7
42.5°	1272.8	1285.5	1298.2	1292.8	1281.4	1265.6	1245.5	1229.2	1224.3	1219.4	1224.3
45°	826.8	882.7	938.6	959.2	967.9	961.0	938.4	905.3	840.6	775.9	840.6
47.5°	415.5	485.1	554.7	602.9	644.0	632.3	567.9	502.4	433.9	365.5	433.9
50°	234.6	276.1	317.5	382.1	454.3	442.4	346.3	268.4	245.1	221.9	245.1
52.5°	156.6	174.9	193.3	245.3	308.4	304.3	232.8	175.9	162.7	149.5	162.7
55°	79.1	84.2	89.2	112.1	141.0	140.4	110.2	86.7	82.9	79.1	82.9
57.5°	26.9	33.6	40.4	50.6	61.9	62.2	51.5	42.0	35.8	29.7	35.8
60°	4.2	10.5	16.8	25.0	33.8	32.8	22.1	12.7	7.1	1.4	7.1
62.5°	0.8	2.6	4.4	11.0	19.3	19.1	10.5	3.5	1.9	0.3	1.9
65°	0.0	0.0	0.0	0.5	1.1	1.1	0.5	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	2.5	4.3	5.7	6.8	7.2	7.2	7.5	7.9	7.9	7.9
90°	5.4	12.6	21.5	28.7	34.1	35.9	35.9	37.7	39.5	39.5	39.5
92.5°	19.7	31.2	31.6	31.6	38.4	41.6	44.5	44.8	46.6	46.6	46.6
95°	55.6	61.0	91.5	89.7	61.0	48.4	41.3	41.3	41.3	41.3	41.3
97.5°	106.2	114.1	119.1	159.6	168.6	162.9	132.7	111.6	99.7	94.4	99.7
100°	150.7	154.3	165.0	166.8	211.7	254.7	233.2	206.3	197.3	191.9	197.3
102.5°	195.2	197.3	213.8	221.4	231.8	256.2	330.8	322.5	316.4	315.3	316.4
105°	261.9	263.7	294.2	308.5	315.7	315.7	313.9	349.8	407.2	419.7	407.2
107.5°	333.3	341.5	377.4	415.8	424.0	426.2	416.9	411.5	409.3	410.8	409.3
110°	382.1	394.6	437.7	486.1	498.7	502.3	498.7	493.3	489.7	489.7	489.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	429.4	447.7	496.5	552.1	573.3	584.1	576.2	572.2	568.6	571.5	568.6
115°	502.3	529.2	593.7	651.1	694.2	699.6	697.8	697.8	696.0	696.0	696.0
117.5°	569.7	612.8	685.2	752.0	801.8	816.2	823.3	821.2	819.0	822.6	819.0
120°	617.1	667.3	749.8	825.1	873.6	895.1	902.3	898.7	902.3	898.7	902.3
122.5°	667.3	729.0	810.1	888.3	945.3	969.7	978.3	979.0	979.8	977.6	979.8
125°	742.6	818.0	913.0	993.8	1052.9	1081.6	1088.8	1090.6	1094.2	1103.2	1094.2
127.5°	818.7	904.1	1008.5	1086.3	1146.9	1181.7	1192.9	1196.8	1204.3	1208.3	1204.3
130°	871.8	968.6	1074.5	1148.0	1207.2	1244.9	1264.6	1270.0	1279.0	1277.2	1279.0
132.5°	927.7	1028.9	1136.2	1212.6	1267.5	1308.0	1324.9	1340.3	1343.5	1346.1	1343.5
135°	1009.9	1119.3	1226.9	1302.3	1354.3	1393.8	1415.3	1429.6	1438.6	1444.0	1438.6
137.5°	1096.4	1211.9	1315.2	1382.3	1434.7	1468.7	1493.1	1508.2	1517.5	1521.8	1517.5
140°	1155.2	1266.4	1366.9	1436.8	1483.5	1517.5	1539.1	1557.0	1567.8	1567.8	1567.8
142.5°	1211.2	1320.9	1418.5	1488.5	1529.4	1560.6	1583.5	1597.2	1609.4	1609.4	1609.4
145°	1289.7	1399.1	1488.8	1558.8	1592.9	1621.6	1646.7	1657.5	1664.6	1664.6	1664.6
147.5°	1371.9	1468.7	1550.5	1617.6	1646.3	1680.1	1699.8	1708.4	1717.4	1713.4	1717.4
150°	1420.7	1510.4	1589.3	1652.1	1680.8	1713.1	1732.8	1740.0	1748.9	1743.6	1748.9
152.5°	1468.0	1553.4	1625.2	1683.6	1708.0	1740.3	1762.9	1770.1	1776.2	1772.3	1776.2
155°	1531.9	1607.2	1673.6	1727.4	1748.9	1779.4	1801.0	1809.9	1817.1	1808.1	1817.1
157.5°	1588.9	1653.9	1711.6	1761.1	1784.1	1810.3	1830.4	1841.5	1848.7	1844.7	1848.7
160°	1623.4	1682.6	1734.6	1781.2	1802.7	1826.1	1847.6	1860.1	1867.3	1861.9	1867.3
162.5°	1652.1	1705.5	1754.7	1797.0	1815.7	1836.1	1861.9	1873.1	1880.2	1873.4	1880.2
165°	1693.3	1736.4	1779.4	1815.3	1831.4	1847.6	1874.5	1887.1	1892.4	1885.3	1892.4
167.5°	1724.5	1757.5	1792.3	1823.2	1835.0	1850.8	1877.7	1888.1	1894.9	1886.0	1894.9
170°	1741.8	1770.5	1801.0	1826.1	1835.0	1849.4	1876.3	1885.3	1890.6	1881.7	1890.6
172.5°	1756.1	1777.6	1802.4	1824.6	1829.3	1840.8	1866.2	1875.2	1879.2	1871.6	1879.2
175°	1770.5	1783.0	1801.0	1815.3	1813.5	1820.7	1842.2	1849.4	1856.6	1845.8	1856.6
177.5°	1777.3	1783.0	1788.8	1797.4	1791.6	1791.6	1807.4	1811.7	1813.2	1807.4	1813.2
180°	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2
2.5°	2832.5	2824.4	2812.9	2812.1	2822.2	2830.6	2834.1	2837.6	2834.1	2830.6	2822.2
5°	2843.2	2830.8	2813.9	2810.7	2821.4	2830.2	2833.3	2836.5	2833.3	2830.2	2821.4
7.5°	2843.6	2833.9	2820.0	2816.8	2824.3	2830.5	2832.7	2834.8	2832.7	2830.5	2824.3
10°	2841.4	2831.3	2816.9	2815.9	2828.5	2838.1	2838.7	2839.3	2838.7	2838.1	2828.5
12.5°	2830.5	2823.4	2812.0	2816.0	2835.6	2849.4	2845.5	2841.6	2845.5	2849.4	2835.6
15°	2794.9	2795.5	2793.6	2807.4	2837.0	2856.4	2845.7	2835.1	2845.7	2856.4	2837.0
17.5°	2730.4	2738.5	2745.4	2768.5	2807.8	2833.6	2818.5	2803.4	2818.5	2833.6	2807.8
20°	2674.3	2685.7	2697.7	2725.3	2768.6	2796.8	2779.2	2761.6	2779.2	2796.8	2768.6
22.5°	2610.3	2623.5	2638.5	2666.6	2708.0	2734.9	2718.9	2702.8	2718.9	2734.9	2708.0
25°	2504.7	2514.3	2525.6	2551.3	2591.5	2619.0	2608.3	2597.6	2608.3	2619.0	2591.5
27.5°	2354.5	2366.5	2380.6	2402.7	2432.8	2454.7	2451.7	2448.7	2451.7	2454.7	2432.8
30°	2245.9	2259.9	2274.9	2293.8	2316.4	2333.3	2333.3	2333.3	2333.3	2333.3	2316.4
32.5°	2119.3	2134.4	2150.9	2167.3	2183.4	2195.8	2197.3	2198.8	2197.3	2195.8	2183.4
35°	1904.2	1918.8	1935.1	1950.2	1964.0	1972.6	1965.7	1958.8	1965.7	1972.6	1964.0
37.5°	1640.0	1655.2	1672.7	1686.8	1697.2	1704.3	1701.7	1699.1	1701.7	1704.3	1697.2
40°	1445.6	1458.0	1470.6	1482.9	1494.8	1503.6	1503.0	1502.3	1503.0	1503.6	1494.8
42.5°	1229.2	1245.5	1265.6	1281.4	1292.8	1298.2	1285.5	1272.8	1285.5	1298.2	1292.8
45°	905.3	938.4	961.0	967.9	959.2	938.6	882.7	826.8	882.7	938.6	959.2
47.5°	502.4	567.9	632.3	644.0	602.9	554.7	485.1	415.5	485.1	554.7	602.9
50°	268.4	346.3	442.4	454.3	382.1	317.5	276.1	234.6	276.1	317.5	382.1
52.5°	175.9	232.8	304.3	308.4	245.3	193.3	174.9	156.6	174.9	193.3	245.3
55°	86.7	110.2	140.4	141.0	112.1	89.2	84.2	79.1	84.2	89.2	112.1
57.5°	42.0	51.5	62.2	61.9	50.6	40.4	33.6	26.9	33.6	40.4	50.6
60°	12.7	22.1	32.8	33.8	25.0	16.8	10.5	4.2	10.5	16.8	25.0
62.5°	3.5	10.5	19.1	19.3	11.0	4.4	2.6	0.8	2.6	4.4	11.0
65°	0.0	0.5	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	7.2	7.2	6.8	5.7	4.3	2.5	1.1	2.5	3.9	6.5
90°	37.7	35.9	35.9	34.1	28.7	21.5	12.6	5.4	12.6	19.7	32.3
92.5°	44.8	44.5	41.6	38.4	31.6	31.6	31.2	19.7	34.1	48.4	69.6
95°	41.3	41.3	48.4	61.0	89.7	91.5	61.0	55.6	78.9	111.2	139.9
97.5°	111.6	132.7	162.9	168.6	159.6	119.1	114.1	106.2	144.6	176.5	222.8
100°	206.3	233.2	254.7	211.7	166.8	165.0	154.3	150.7	191.9	222.4	267.3
102.5°	322.5	330.8	256.2	231.8	221.4	213.8	197.3	195.2	236.4	278.4	316.1
105°	349.8	313.9	315.7	315.7	308.5	294.2	263.7	261.9	308.5	357.0	403.6
107.5°	411.5	416.9	426.2	424.0	415.8	377.4	341.5	333.3	375.3	433.4	484.7
110°	493.3	498.7	502.3	498.7	486.1	437.7	394.6	382.1	419.7	480.7	536.3



TEST NUMBER: P1427551

CATALOG NUMBER: SQ2W-BBM-K-125U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	572.2	576.2	584.1	573.3	552.1	496.5	447.7	429.4	467.1	529.5	586.6
115°	697.8	697.8	699.6	694.2	651.1	593.7	529.2	502.3	534.5	591.9	654.7
117.5°	821.2	823.3	816.2	801.8	752.0	685.2	612.8	569.7	595.2	655.8	720.4
120°	898.7	902.3	895.1	873.6	825.1	749.8	667.3	617.1	636.8	696.0	760.6
122.5°	979.0	978.3	969.7	945.3	888.3	810.1	729.0	667.3	675.5	730.4	793.6
125°	1090.6	1088.8	1081.6	1052.9	993.8	913.0	818.0	742.6	731.9	778.5	843.1
127.5°	1196.8	1192.9	1181.7	1146.9	1086.3	1008.5	904.1	818.7	794.6	824.1	883.3
130°	1270.0	1264.6	1244.9	1207.2	1148.0	1074.5	968.6	871.8	837.7	855.6	907.7
132.5°	1340.3	1324.9	1308.0	1267.5	1212.6	1136.2	1028.9	927.7	880.7	888.6	929.2
135°	1429.6	1415.3	1393.8	1354.3	1302.3	1226.9	1119.3	1009.9	945.3	938.1	961.5
137.5°	1508.2	1493.1	1468.7	1434.7	1382.3	1315.2	1211.9	1096.4	1014.9	990.9	999.9
140°	1557.0	1539.1	1517.5	1483.5	1436.8	1366.9	1266.4	1155.2	1063.7	1029.6	1024.2
142.5°	1597.2	1583.5	1560.6	1529.4	1488.5	1418.5	1320.9	1211.2	1113.9	1069.8	1057.3
145°	1657.5	1646.7	1621.6	1592.9	1558.8	1488.8	1399.1	1289.7	1192.9	1135.5	1108.6
147.5°	1708.4	1699.8	1680.1	1646.3	1617.6	1550.5	1468.7	1371.9	1272.5	1201.5	1166.7
150°	1740.0	1732.8	1713.1	1680.8	1652.1	1589.3	1510.4	1420.7	1325.6	1250.3	1205.4
152.5°	1770.1	1762.9	1740.3	1708.0	1683.6	1625.2	1553.4	1468.0	1371.5	1296.2	1249.9
155°	1809.9	1801.0	1779.4	1748.9	1727.4	1673.6	1607.2	1531.9	1449.4	1370.4	1318.4
157.5°	1841.5	1830.4	1810.3	1784.1	1761.1	1711.6	1653.9	1588.9	1516.8	1441.5	1388.4
160°	1860.1	1847.6	1826.1	1802.7	1781.2	1734.6	1682.6	1623.4	1557.0	1488.8	1431.4
162.5°	1873.1	1861.9	1836.1	1815.7	1797.0	1754.7	1705.5	1652.1	1592.9	1533.3	1480.2
165°	1887.1	1874.5	1847.6	1831.4	1815.3	1779.4	1736.4	1693.3	1643.1	1594.7	1551.6
167.5°	1888.1	1877.7	1850.8	1835.0	1823.2	1792.3	1757.5	1724.5	1685.4	1647.4	1611.5
170°	1885.3	1876.3	1849.4	1835.0	1826.1	1801.0	1770.5	1741.8	1711.3	1679.0	1650.3
172.5°	1875.2	1866.2	1840.8	1829.3	1824.6	1802.4	1777.6	1756.1	1729.9	1706.2	1683.3
175°	1849.4	1842.2	1820.7	1813.5	1815.3	1801.0	1783.0	1770.5	1754.3	1740.0	1727.4
177.5°	1811.7	1807.4	1791.6	1791.6	1797.4	1788.8	1783.0	1777.3	1770.1	1765.8	1761.5
180°	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8



TEST NUMBER: P1427551

CATALOG NUMBER: SQ2W-BBM-K-125U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2	2825.2
2.5°	2812.1	2812.9	2824.4	2832.5	2830.0	2827.4	2830.0	2832.5	2824.4	2812.9	2812.1
5°	2810.7	2813.9	2830.8	2843.2	2842.0	2840.7	2842.0	2843.2	2830.8	2813.9	2810.7
7.5°	2816.8	2820.0	2833.9	2843.6	2840.5	2837.3	2840.5	2843.6	2833.9	2820.0	2816.8
10°	2815.9	2816.9	2831.3	2841.4	2838.2	2835.1	2838.2	2841.4	2831.3	2816.9	2815.9
12.5°	2816.0	2812.0	2823.4	2830.5	2824.9	2819.2	2824.9	2830.5	2823.4	2812.0	2816.0
15°	2807.4	2793.6	2795.5	2794.9	2786.7	2778.5	2786.7	2794.9	2795.5	2793.6	2807.4
17.5°	2768.5	2745.4	2738.5	2730.4	2718.9	2707.3	2718.9	2730.4	2738.5	2745.4	2768.5
20°	2725.3	2697.7	2685.7	2674.3	2664.2	2654.2	2664.2	2674.3	2685.7	2697.7	2725.3
22.5°	2666.6	2638.5	2623.5	2610.3	2602.3	2594.2	2602.3	2610.3	2623.5	2638.5	2666.6
25°	2551.3	2525.6	2514.3	2504.7	2500.3	2495.9	2500.3	2504.7	2514.3	2525.6	2551.3
27.5°	2402.7	2380.6	2366.5	2354.5	2348.9	2343.2	2348.9	2354.5	2366.5	2380.6	2402.7
30°	2293.8	2274.9	2259.9	2245.9	2235.2	2224.5	2235.2	2245.9	2259.9	2274.9	2293.8
32.5°	2167.3	2150.9	2134.4	2119.3	2108.6	2097.9	2108.6	2119.3	2134.4	2150.9	2167.3
35°	1950.2	1935.1	1918.8	1904.2	1894.8	1885.3	1894.8	1904.2	1918.8	1935.1	1950.2
37.5°	1686.8	1672.7	1655.2	1640.0	1632.1	1624.2	1632.1	1640.0	1655.2	1672.7	1686.8
40°	1482.9	1470.6	1458.0	1445.6	1433.7	1421.8	1433.7	1445.6	1458.0	1470.6	1482.9
42.5°	1281.4	1265.6	1245.5	1229.2	1224.3	1219.4	1224.3	1229.2	1245.5	1265.6	1281.4
45°	967.9	961.0	938.4	905.3	840.6	775.9	840.6	905.3	938.4	961.0	967.9
47.5°	644.0	632.3	567.9	502.4	433.9	365.5	433.9	502.4	567.9	632.3	644.0
50°	454.3	442.4	346.3	268.4	245.1	221.9	245.1	268.4	346.3	442.4	454.3
52.5°	308.4	304.3	232.8	175.9	162.7	149.5	162.7	175.9	232.8	304.3	308.4
55°	141.0	140.4	110.2	86.7	82.9	79.1	82.9	86.7	110.2	140.4	141.0
57.5°	61.9	62.2	51.5	42.0	35.8	29.7	35.8	42.0	51.5	62.2	61.9
60°	33.8	32.8	22.1	12.7	7.1	1.4	7.1	12.7	22.1	32.8	33.8
62.5°	19.3	19.1	10.5	3.5	1.9	0.3	1.9	3.5	10.5	19.1	19.3
65°	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.5	1.1	1.1	1.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	10.8	13.3	14.7	16.1	15.4	16.1	14.7	13.3	10.8	8.3
90°	41.3	53.8	66.4	73.5	80.7	77.1	80.7	73.5	66.4	53.8	41.3
92.5°	82.9	104.0	119.5	132.4	138.1	137.4	138.1	132.4	119.5	104.0	82.9
95°	166.8	191.9	217.0	235.0	245.7	242.2	245.7	235.0	217.0	191.9	166.8
97.5°	257.2	291.0	318.9	335.8	346.6	353.7	346.6	335.8	318.9	291.0	257.2
100°	317.5	349.8	382.1	401.8	419.7	426.9	419.7	401.8	382.1	349.8	317.5
102.5°	366.3	408.6	443.8	464.9	480.0	487.2	480.0	464.9	443.8	408.6	366.3
105°	446.7	491.5	529.2	556.1	572.2	577.6	572.2	556.1	529.2	491.5	446.7
107.5°	527.0	573.3	608.1	637.9	657.6	669.1	657.6	608.1	573.3	527.0	527.0
110°	590.2	627.8	665.5	692.4	712.1	719.3	712.1	692.4	665.5	627.8	590.2



TEST NUMBER: P1427551

CATALOG NUMBER: SQ2W-BBM-K-125U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	643.2	685.2	722.9	749.8	772.4	782.4	772.4	749.8	722.9	685.2	643.2
115°	717.5	773.1	807.2	832.3	848.5	857.4	848.5	832.3	807.2	773.1	717.5
117.5°	779.2	837.3	874.6	894.0	901.6	908.0	901.6	894.0	874.6	837.3	779.2
120°	818.0	871.8	914.8	939.9	948.9	952.5	948.9	939.9	914.8	871.8	818.0
122.5°	853.8	904.8	946.4	977.3	992.0	995.5	992.0	977.3	946.4	904.8	853.8
125°	904.1	952.5	995.5	1026.0	1042.2	1051.2	1042.2	1026.0	995.5	952.5	904.1
127.5°	947.8	1000.2	1039.7	1067.3	1083.1	1090.3	1083.1	1067.3	1039.7	1000.2	947.8
130°	972.2	1026.0	1065.5	1096.0	1110.3	1117.5	1110.3	1096.0	1065.5	1026.0	972.2
132.5°	990.9	1047.6	1088.5	1116.1	1131.9	1139.0	1131.9	1116.1	1088.5	1047.6	990.9
135°	1013.5	1072.7	1115.7	1142.6	1157.0	1164.2	1157.0	1142.6	1115.7	1072.7	1013.5
137.5°	1033.2	1087.0	1131.9	1160.2	1173.1	1177.8	1173.1	1160.2	1131.9	1087.0	1033.2
140°	1047.6	1094.2	1139.0	1166.0	1180.3	1182.1	1180.3	1166.0	1139.0	1094.2	1047.6
142.5°	1066.2	1102.8	1141.9	1168.8	1183.2	1186.4	1183.2	1168.8	1141.9	1102.8	1066.2
145°	1099.6	1121.1	1148.0	1173.1	1185.7	1189.3	1185.7	1173.1	1148.0	1121.1	1099.6
147.5°	1141.6	1148.4	1162.4	1178.9	1191.1	1193.6	1191.1	1178.9	1162.4	1148.4	1141.6
150°	1173.1	1171.3	1176.7	1187.5	1198.2	1196.5	1198.2	1187.5	1176.7	1171.3	1173.1
152.5°	1209.0	1198.6	1198.2	1203.3	1208.3	1207.9	1208.3	1203.3	1198.2	1198.6	1209.0
155°	1270.0	1250.3	1239.5	1235.9	1235.9	1234.1	1235.9	1235.9	1239.5	1250.3	1270.0
157.5°	1337.1	1309.5	1293.3	1284.7	1282.2	1278.2	1282.2	1284.7	1293.3	1309.5	1337.1
160°	1383.0	1352.5	1336.4	1322.0	1316.6	1311.3	1316.6	1322.0	1336.4	1352.5	1383.0
162.5°	1426.1	1397.0	1379.4	1366.5	1361.1	1352.9	1361.1	1366.5	1379.4	1397.0	1426.1
165°	1496.0	1465.5	1445.8	1435.0	1427.8	1420.7	1427.8	1435.0	1445.8	1465.5	1496.0
167.5°	1566.0	1532.6	1519.7	1507.5	1500.7	1487.8	1500.7	1507.5	1519.7	1532.6	1566.0
170°	1609.0	1578.5	1571.4	1560.6	1548.0	1533.7	1548.0	1560.6	1571.4	1578.5	1609.0
172.5°	1646.3	1625.9	1618.7	1607.9	1604.0	1592.5	1604.0	1607.9	1618.7	1625.9	1646.3
175°	1700.5	1684.4	1684.4	1682.6	1677.2	1666.4	1677.2	1682.6	1684.4	1684.4	1700.5
177.5°	1745.7	1737.1	1742.8	1742.8	1741.4	1731.4	1741.4	1742.8	1742.8	1737.1	1745.7
180°	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8



TEST NUMBER: P1427551

CATALOG NUMBER: SQ2W-BBM-K-125U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2825.2	2825.2	2825.2	2825.2
2.5°	2822.2	2830.6	2834.1	2837.6
5°	2821.4	2830.2	2833.3	2836.5
7.5°	2824.3	2830.5	2832.7	2834.8
10°	2828.5	2838.1	2838.7	2839.3
12.5°	2835.6	2849.4	2845.5	2841.6
15°	2837.0	2856.4	2845.7	2835.1
17.5°	2807.8	2833.6	2818.5	2803.4
20°	2768.6	2796.8	2779.2	2761.6
22.5°	2708.0	2734.9	2718.9	2702.8
25°	2591.5	2619.0	2608.3	2597.6
27.5°	2432.8	2454.7	2451.7	2448.7
30°	2316.4	2333.3	2333.3	2333.3
32.5°	2183.4	2195.8	2197.3	2198.8
35°	1964.0	1972.6	1965.7	1958.8
37.5°	1697.2	1704.3	1701.7	1699.1
40°	1494.8	1503.6	1503.0	1502.3
42.5°	1292.8	1298.2	1285.5	1272.8
45°	959.2	938.6	882.7	826.8
47.5°	602.9	554.7	485.1	415.5
50°	382.1	317.5	276.1	234.6
52.5°	245.3	193.3	174.9	156.6
55°	112.1	89.2	84.2	79.1
57.5°	50.6	40.4	33.6	26.9
60°	25.0	16.8	10.5	4.2
62.5°	11.0	4.4	2.6	0.8
65°	0.5	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0
87.5°	6.5	3.9	2.5	1.1
90°	32.3	19.7	12.6	5.4
92.5°	69.6	48.4	34.1	19.7
95°	139.9	111.2	78.9	55.6
97.5°	222.8	176.5	144.6	106.2
100°	267.3	222.4	191.9	150.7
102.5°	316.1	278.4	236.4	195.2
105°	403.6	357.0	308.5	261.9
107.5°	484.7	433.4	375.3	333.3
110°	536.3	480.7	419.7	382.1



TEST NUMBER: P1427551

CATALOG NUMBER: SQ2W-BBM-K-125U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	586.6	529.5	467.1	429.4
115°	654.7	591.9	534.5	502.3
117.5°	720.4	655.8	595.2	569.7
120°	760.6	696.0	636.8	617.1
122.5°	793.6	730.4	675.5	667.3
125°	843.1	778.5	731.9	742.6
127.5°	883.3	824.1	794.6	818.7
130°	907.7	855.6	837.7	871.8
132.5°	929.2	888.6	880.7	927.7
135°	961.5	938.1	945.3	1009.9
137.5°	999.9	990.9	1014.9	1096.4
140°	1024.2	1029.6	1063.7	1155.2
142.5°	1057.3	1069.8	1113.9	1211.2
145°	1108.6	1135.5	1192.9	1289.7
147.5°	1166.7	1201.5	1272.5	1371.9
150°	1205.4	1250.3	1325.6	1420.7
152.5°	1249.9	1296.2	1371.5	1468.0
155°	1318.4	1370.4	1449.4	1531.9
157.5°	1388.4	1441.5	1516.8	1588.9
160°	1431.4	1488.8	1557.0	1623.4
162.5°	1480.2	1533.3	1592.9	1652.1
165°	1551.6	1594.7	1643.1	1693.3
167.5°	1611.5	1647.4	1685.4	1724.5
170°	1650.3	1679.0	1711.3	1741.8
172.5°	1683.3	1706.2	1729.9	1756.1
175°	1727.4	1740.0	1754.3	1770.5
177.5°	1761.5	1765.8	1770.1	1777.3
180°	1775.8	1775.8	1775.8	1775.8



TEST NUMBER: P1427551  
 CATALOG NUMBER: SQ2W-BBM-K-125U-100D-L940-UNV-STD-W-WM-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.00	0.00	0.00	0.06	1.42	0.00	0.00	0.00	0.29	1.65
	3H	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.03	1.40
	4H	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00	1.27
	6H	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	1.13
	8H	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00	1.05
	12H	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.98
4H	2H	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	1.28
	3H	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00	1.02
	4H	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.88
	6H	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.72
	8H	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.64
	12H	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.55
8H	4H	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.64
	6H	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.50
	8H	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.41
	12H	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.35
12H	4H	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.55
	6H	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.41
	8H	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.34